Submitted: 2/9/15

2015 ACADEMIC PROGRAM REVIEW
TEN YEAR SELF-STUDY

INTERDISCIPLINARY PROGRAM IN NUTRITIONAL SCIENCES
SCHOOL OF PUBLIC HEALTH

Degrees: Master of Science, Nutritional Sciences
Master of Public Health, Public Health Nutrition
Doctor of Philosophy, Nutritional Sciences
Graduate Coordinated Program in Dietetics
Undergraduate Minor in Nutritional Sciences

Last review: 2005

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PART A: BACKGROUND INFORMATION

Section 1: Overview of the Organization

The Nutritional Sciences Program (NSP) provides students with advanced knowledge of the biological and social sciences as they apply to the study of foods, nutrients, dietary behaviors, health outcomes, and food and policy environments. Reflecting the truly interdisciplinary nature of human nutrition, the Program engages with basic biological and clinical sciences on one hand and dietetic practice and public health on the other. Program faculty members are among the recognized thought leaders in national and global food and nutrition policy.

The Program is well positioned to lead cross-campus efforts in nutrition and food systems that involve graduate and undergraduate teaching, research, and community outreach. The Program is currently supported by 15 Core and 19 Interdisciplinary faculty, drawn from multiple schools, colleges, and departments. Core faculty members hold academic positions in the School of Public Health (SPH), the School of Medicine, and the Fred Hutchinson Cancer Research Center, with additional faculty drawn from Arts & Sciences, Pharmacy, Nursing, and the College of Built Environments. Faculty research in diverse areas of basic, clinical, and public health nutrition has ranged from the biology of disease causation to the study of disparities in diets and health at the population level. In addition to an undergraduate minor and graduate degrees (MS, MPH, and PhD), the Program provides training leading to the Registered Dietitian (RD) or Registered Dietitian Nutritionist (RDN) professional credential.

Mission Statement

The Program aims to promote a better understanding of nutritional sciences as they apply to the promotion of health and prevention of disease. Consistent with the School of Public Health strategic plan, the Program strives to provide its students with an academic environment that promotes excellence in teaching, research, and service. The principal goals are:

- To expand the base of knowledge by conducting rigorous research in areas ranging from experimental and clinical nutrition to public health nutrition policy and practice.
- To train graduate students to become scholars, able to interpret and conduct quality research in nutritional sciences and translate this knowledge to health promotion.
- To create a diverse nutrition workforce by preparing graduate students to be nutrition professionals in both community and health care delivery settings.
- To introduce undergraduate students to the study of foods and nutrition and promote a better understanding of foods, diets, and health.

Degrees and Student Enrollment Patterns

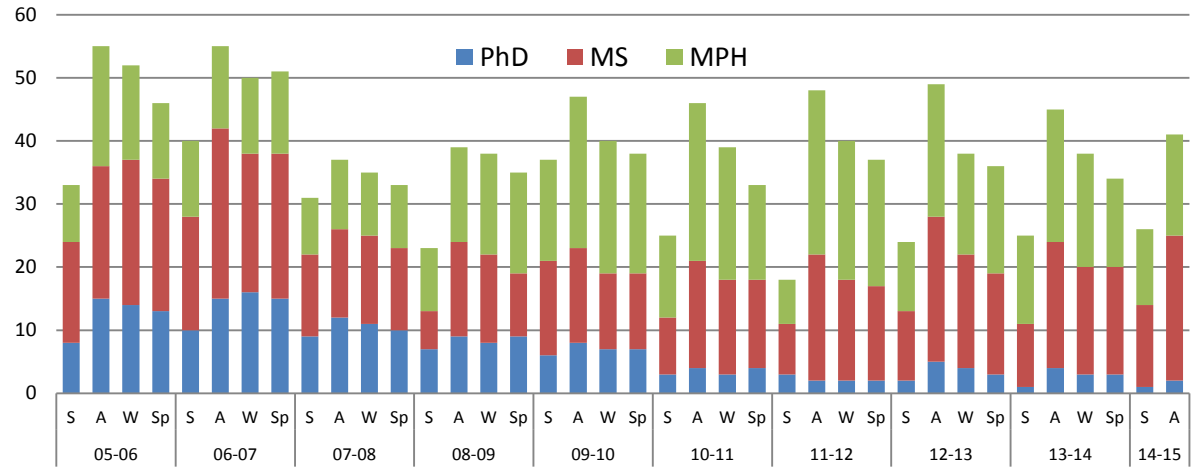
<u>Graduate Training</u>

The Program offers three graduate degrees and a fee-based professional training program that provides the didactic and practice requirements for the RD and RDN credentials.

- Master of Science, Nutritional Sciences
- Master of Public Health, Public Health Nutrition
- Doctor of Philosophy, Nutritional Sciences
- Graduate Coordinated Program in Dietetics (GCPD)

In autumn 2014, the Program had 16 MPH, 24 MS, and 3 PhD students enrolled. The total graduate enrollment (**Figure 1**) declined between 2005 and 2010, primarily due to a drop in PhD admissions and enrollment. In recent years, the entering class has been 16–17 students, primarily enrolling at the master's level. The GCPD admits a cohort of 12 students annually, selecting from newly admitted or continuing MS, MPH, or PhD students.

Figure 1. Graduate Program Enrollment from Summer 2005 through Autumn 2014



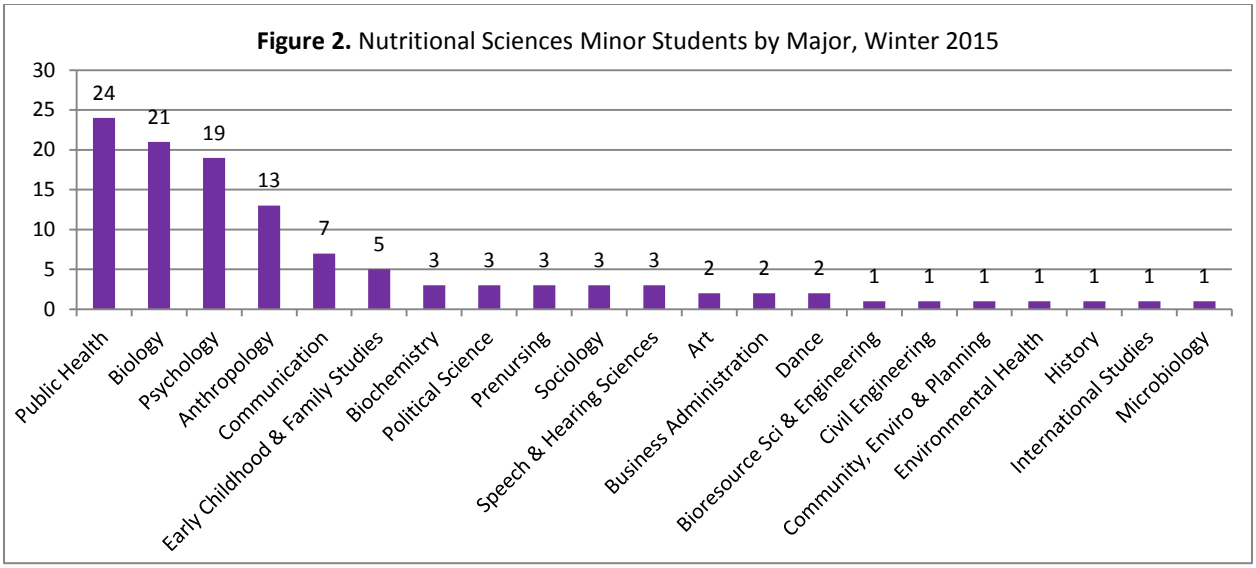
Applications to the Program increased substantially during the 10-year period from 2005–2006 to 2014–2015 (**Appendix H**). Applications for the MPH degree program have quadrupled (from 12 to 50), for the MS degree have more than doubled (35 to 87), and for the PhD degree have almost doubled (15 to 27). However, faced with declining student funding and rising tuition rates, the Program has chosen to be more selective in its admissions, with the total number of graduate students at the master's level kept approximately constant. Graduate degrees granted since 2005–2006 have remained approximately constant, as summarized in **Table 1.**

Table 1. Graduate Degrees Granted from Summer 2005 through Autumn 2014

	05-06	**06-07**	**07-08**	**08-09**	**09-10**	**10-11**	**11-12**	**12-13**	**13-14**	**14-15** (through Aut qrtr)
PhD	3	4	2	2	2	1	1	2	0	0
MS	7	10	6	4	8	11	6	6	9	6
MPH	8	7	2	4	8	4	10	8	10	6
Total	**18**	**21**	**10**	**10**	**18**	**16**	**17**	**16**	**19**	**12**

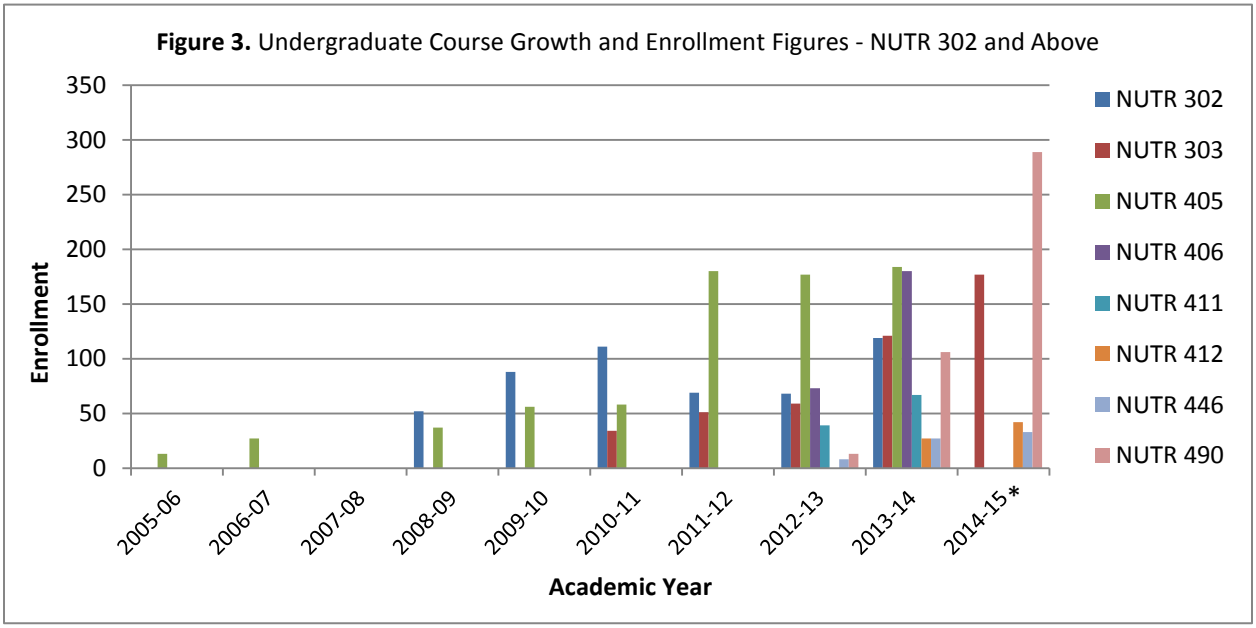
Undergraduate Minor and Course Enrollment

Since spring 2013, the Program has offered an extremely successful Minor in Nutritional Sciences to undergraduate students. As of winter 2015, 110 students representing 7 colleges and 21 majors (**Figure 2**) were declared in the Minor. As of December 2014, 20 students have graduated with the Minor.

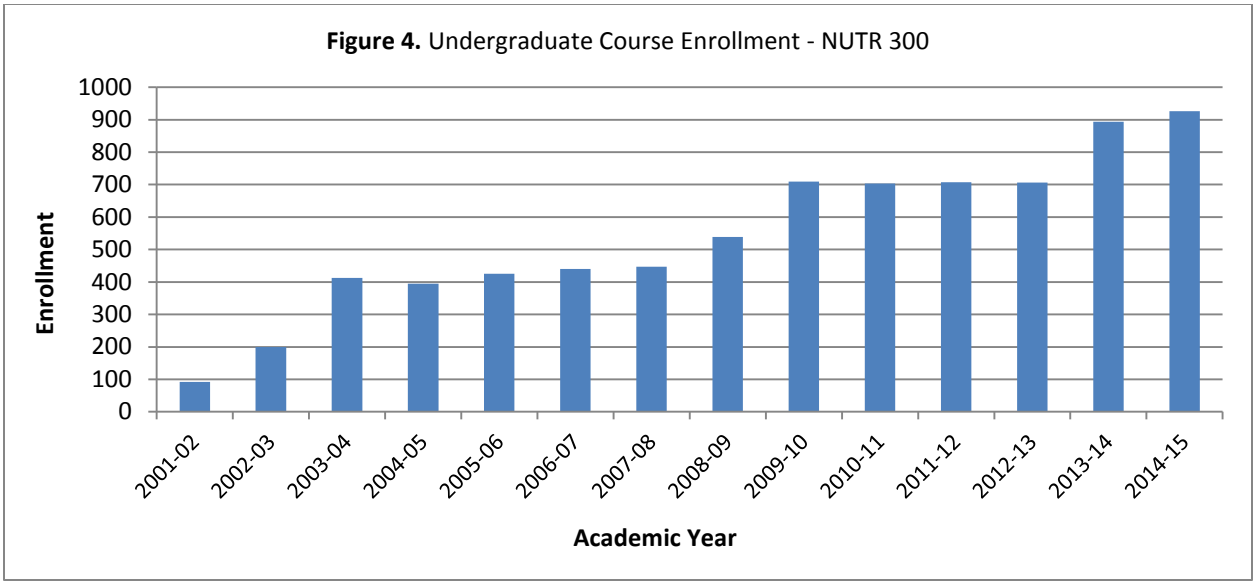


Numbers total 117 for 110 students; this accounts for double majors

The Program currently offers 11 undergraduate courses with 2 additional courses already approved or in preparation. Course enrollment has been spectacular. Between 2009–2010 and 2013–2014, the Program increased its annual undergraduate student credit hours by 75% (increase of 2,281 student credit hours). During the academic year 2013–2014, Program faculty collectively taught more than 5,000 undergraduate student credit hours, accounting for almost one-third of all undergraduate teaching conducted by the entire School of Public Health. Enrollment in many classes is capped only by the limited availability of large classrooms. The growth of undergraduate courses and course enrollment is summarized in **Figures 3 and 4**.



* *Registration for 2014–15 spring courses (302, 405, 406, 411) has not occurred yet*



Professional Training and UW Professional and Continuing Education (UW PCE)

The Accreditation Council for Education in Nutrition and Dietetics (ACEND), the accrediting body of the Academy for Nutrition and Dietetics, has approved the Program to offer dietetics training to students pursuing MS, MPH, or PhD degrees. This training is coordinated with UW PCE. By offering RD training at graduate level, the Program is ahead of current trends. As of 2024, ACEND will require that RD or RDN training be paired with a graduate degree in nutrition.

Faculty and Organizational Structure

The organizational structure of the Program is provided in **Appendix A**. Per university policy, the Program is not able to appoint faculty directly; all faculty must first be granted a primary appointment in a UW department or have a primary appointment at the Fred Hutchinson Cancer Research Center (FHCRC). To obtain appointments, the Program has worked with individual SPH departments to justify, launch, and conduct joint faculty searches. The Program is able to invite current UW-appointed faculty to join its Core or Interdisciplinary faculty. The current faculty roster includes 15 Core, 19 Interdisciplinary, and 13 Clinical members.

- Core faculty assume substantial teaching, mentoring, service, and/or administrative responsibilities for the Nutritional Sciences academic program. Their home departments are Epidemiology, Health Services, and Environmental and Occupational Health Sciences in the School of Public Health and Comparative Medicine and Pediatrics in the School of Medicine.
    - Professors: Adam Drewnowski (Director), Shirley Beresford, Donna Johnson, Johanna Lampe, Marian Neuhouser, Michael Rosenfeld
    - Associate Professors: Glen Duncan (Graduate Program Coordinator), Mario Kratz, Jason Mendoza
    - Assistant Professors: Michelle Averill (Acting), Jennifer Otten, Jisun Paik
    - Senior Lecturers: Elizabeth Kirk (Part-time)
    - Lecturers: Anne Lund (Director, GCPD), Beth Ogata
- Interdisciplinary faculty serve as an extension of the Program faculty by involving students in research, serving on graduate student committees, and guest lecturing in courses.

- Clinical faculty are bachelor's- or master's-level dietetics and/or public health practitioners employed at outside agencies or in non-academic positions at the UW. Clinical faculty supervise internship, practicum, and fieldwork placements; lecture in courses; and serve the Dietetics Program in an advisory capacity. Other than payment for course instruction, these are unpaid courtesy appointments. (*See **Appendix D** for a full list of faculty).*

The Program staff include an Academic Program Manager (1 FTE), Graduate Student Services Coordinator (1 FTE), and Undergraduate Student Services Coordinator (1 FTE) who share responsibility for administrative, academic advising, course, and curriculum functions. In addition, the Graduate Coordinated Program in Dietetics has a Student Services Coordinator (0.5 FTE). The Program contracts with another UW department for tech support (0.2 FTE).

The Program is administratively located in the Office of the Dean. At the time of the last review (2005), the Program's degree codes were located in the Graduate School (MS, PhD) and the Department of Epidemiology (MPH). In 2011, the Program was moved from the Graduate School to the School of Public Health and its MS and PhD degree codes were transferred to the Office of the Dean. Instructional budgets were moved from the Department of Epidemiology to the Office of the Dean. In spring 2013, the Program was instructed to transfer its degree codes and budgets back to the Department of Epidemiology, effective July 1, 2013. Given faculty concerns regarding two forced moves in two years, the second move was put on hold pending the current 10-year self-study. At this point, the Program's future administrative home is unclear.

The Program's continuing status within the Dean's Office is subject to a Memorandum of Understanding (**Appendix C**). Regarding shared governance, the MOU states in part:

- The NSP is defined as academic activities of the Core faculty, staff, and students of the Program. At the time of this agreement, the academic activities are primarily educational activities related to the Nutrition interdisciplinary degree and certificate program curricula and students, and undergraduate courses including the Minor, while the faculty research activities are supported by their home departments.
- The NSP Director will maintain the responsibility for NSP's day-to-day program operations including admissions, curricular decisions, and student services. The Director will report to the Senior Associate Dean, as the designee of the SPH Dean. Signatory authority resides jointly with the Program Director and the Senior Associate Dean.
- The NSP will maintain current membership arrangements on the SPH Faculty Council, the SPH Curriculum Committee, and other faculty governance committees according to the bylaws of those groups.

The Program Director and Core faculty have been responsible for policy, curriculum, and admissions decisions. These responsibilities include directing and approving program operations, allocation of program funds, policy changes, and strategic plans regarding the Program's direction and growth. Given its cross-departmental nature, the Program does not have a separate external advisory committee. The Graduate Coordinated Program in Dietetics (GCPD) does have an external advisory committee to provide consultation to its Director (Anne Lund). Student representatives are invited to provide input in faculty and curriculum meetings and represent the Program on the Graduate and Professional Student Senate.

Budget and Resources

Program Budget Summary

A budget summary for the last three biennia is provided in **Appendix B**. The Program's General Operating Fund (GOF) budget provides the main source of funding for its graduate and undergraduate instruction, student services, and other costs associated with program administration. Since the implementation of activity based budgeting (ABB) in fiscal year 2013, the Program has received its annual GOF allocation from the Office of the Dean, based almost entirely on teaching revenues. The Program relies heavily on revenues generated by large undergraduate courses to offset the costs of its graduate programs. Graduate course enrollments do not provide enough revenues to cover teaching, mentoring, and advising costs. The algorithm for the allocation of funds for academic year 2013–2014 roughly followed that of the SPH departments, in keeping with the Program's quasi-departmental status. However, unlike departments, the Program does not capture research overhead costs and has had little success in obtaining supplemental ("adjustment") funds from the SPH.

In mid-2014, the revenue stream to the Program was changed and the new allocation system was outlined as follows (see MOU **Appendix C**).

- The annual allocation of funds to the NSP will be decided by the Dean, after consultation with the NSP director, and consideration of the tuition revenue generated by NSP. Some factors that will impact the allocation not only include revenue generated by NSP, but also the needs of SPH, and the needs and plans of the NSP Program, as presented by the Director to the Dean.
- The NSP will receive its SPH budget allocation for FY 2015 directly from the Dean's Office based on a budget submitted by the Program Director. The budgeting model will be reevaluated annually.

In essence, the funding stream to the Program was changed mid-year from an algorithm to an allowance. Several Program faculty have voiced concerns about this ambiguity in the MOU language, such as the lack of clarity about the budget negotiation process/timeline and how the Program's contribution to the "needs of the SPH" will be determined or compare with the Schools' current taxation model. For fiscal year 2015 (July 2014–June 2015), the Program received a draft communication regarding the allocation in July 2014 and received its formal budget allocation on December 29, 2014, midway into the Program fiscal year.

The Program has looked to other sources of funding to cover both operating and tuition costs. The Dietetics Practice Experience, conducted jointly with UW PCE, is largely self-supporting and able to cover both the instructional and administration costs. Program endowment funds are sufficient to provide modest scholarships (between $1,000 and $5,000) to 10–12 students each year. Graduate students have also successfully applied to the Academy of Nutrition and Dietetics Foundation and other philanthropic organizations for scholarship support.

These efforts may not be enough to balance the Program's budget. Teaching assistants (TAs) for large undergraduate courses are a major expense. Per SPH policy, their tuition costs will no longer be waived and will most likely be charged to the Program starting next year. The Program has no access to indirect costs generated by faculty grants, which go directly to the

faculty members' home department or institution. Since 2005, Program Core faculty acting as Principal Investigators have brought in more than $20 million in federal, foundation, state, and private grants and contracts (listed in **Appendix F**).

Evaluation Procedures/Use of Resources

The Program invests in strategic goals by providing adequate management, staffing, and teaching resources to sustain the recent growth in undergraduate education. We also strive to maintain the quality of graduate programs by investing in faculty retention, new faculty recruitment, and succession planning. The principal challenge before us is to assure sufficient administrative stability and continued financial resources to be able to plan for the future and attract and retain world-class teaching and research faculty.

Having some financial stability is essential to the Program's future as several of the current faculty move toward retirement. Where possible, the Program has worked to build some reserves to allow for new faculty recruitment. However, the ability to attract new faculty is also dependent on having a clearly defined revenue flow and administrative home.

Fundraising and Development

The Nutritional Science Minor was made possible by external fundraising. Other than NUTR 300 Nutrition for Today, the undergraduate courses were developed and taught in large measure thanks to private donations from alumni and other supporters of the Program. Those funds paid for curriculum development and the initial teaching of new courses beginning in 2008 and were later matched by funds from the School of Public Health and the Provost. With the arrival of ABB, these courses now account for approximately one-third of the School's undergraduate teaching. More recently, the Program has worked with the Assistant Dean for Advancement to secure additional funds, with further support from the Associate Dean for Philanthropy, the Advancement Services Officer, and the Advancement Coordinator, all in the Office of the Dean.

Academic Unit Diversity

Diversity Planning

The Program participates in the diversity goals identified in the 2012–2020 School of Public Health Strategic Plan. A school-wide Diversity Committee is the governing body charged with developing and advocating policies and initiatives to improve the diversity of the SPH; prioritizing curricula; faculty, staff and student recruitment and retention; and climate.

Faculty and Staff Diversity

Of the 15 Core faculty members, ten are female and three are Asian (Filipino, Japanese, and Korean). All members of the administrative and student services staff are female and one is Asian (Filipino). Outreach opportunities to increase the diversity of applicants are deliberately considered. Faculty search committees establish diversity priorities by using guidelines established by the SPH Diversity Committee. In a new faculty search conducted jointly with the Department of Health Services, these priorities are "women, underrepresented ethnic, racial minorities OR faculty who have demonstrated research/teaching interests in health disparities, social determinants of health, and cultural and socioeconomic diversity."

Recruiting and Retaining Diverse Students

In autumn 2014, the enrolled graduate students (n=41) were predominately female with one male student. Students identified themselves as Caucasian (n=27), Asian (n=8), and American Indian (n=1). There were 4 international students from Italy, China (2), and Korea. Since 2005, 88% of graduates were female and 13% were international students. Domestic graduates self-identified as Caucasian (76%), Asian (13%), Hispanic (4%), and not indicated (7%).

To reach potential underrepresented minority applicants, the Program contacts student leads identified through the UW Graduate Opportunities and Minority Achievement Program's National Name Exchange database and the SPH's participation in conferences, such as the Annual Biomedical Research Conference for Minority Students (ABRCMS) and the Society for Advancement of Chicanos and Native Americans in Science (SACNAS). The Program nominates underrepresented minority applicants or students each year for the SPH's Grayston Day Fellowship and was recently successful in obtaining a $10,000 stipend for Jonae Perez, a Hispanic MPH/Dietetics 2014 graduate. The Program supports students in identifying and applying for external scholarships, assistantships, or traineeships and has recently provided financial support for underrepresented students through the Program's endowed scholarships and the Maternal and Child Health Training Programs.

Section II: Teaching and Learning

Student Learning Goals and Outcomes

Doctor of Philosophy (PhD)

A student receiving a PhD degree will be able to conduct independent research in diverse aspects of nutrition science. Students will gain an advanced understanding of nutrition and metabolism and related biological and behavioral sciences. Students will be able to apply this knowledge to research in experimental, clinical, and public health nutrition. The expectation is that PhD graduates will be able to:

- Apply knowledge of human nutrient requirements in relation to metabolic pathways and physiological function to the design of research, teaching, and policy proposals.
- Select appropriate methods to perform an in-depth assessment of the nutritional status of individuals and groups, taking into account outcomes and resource limitations.
- Justify the role of nutrition across the lifespan and examine the impact of diets on non-communicable disease.
- Critically examine the evidence base and process for establishing nutrient requirements, dietary guidance, and health promotion for individuals and groups.
- Construct testable hypotheses, develop appropriate study designs, and conduct research that will significantly expand the knowledge in nutritional sciences.
- Disseminate research findings through oral presentations and peer-reviewed journals.
- Develop and prepare proposals for procuring research funding.
- Develop and provide instruction in a higher education academic setting, demonstrating use of evidence-based pedagogical principals.

PhD Curriculum: http://depts.washington.edu/nutr/PhD.html

Master of Science (MS)

The MS degree prepares students to expand the base of knowledge in nutritional sciences and apply it to health care delivery and community settings. Graduates will be able to function effectively in laboratories and clinical care settings. The MS program allows students to pursue diverse interests, including the design of small, interesting projects that dovetail with larger investigations but do not require the same level of originality and independent work as that of the PhD program. The expectation is that MS graduates will be able to:

- Apply knowledge of human nutrient requirements and their relations to metabolic pathways and physiological function to clinical nutrition practice and nutrition research.
- Perform an in-depth assessment of the nutritional status of individuals and groups.
- Appraise how nutritional factors across the lifespan affect etiology, incidence, and prevalence of non-communicable disease and quality of life.
- Explain and critique the process, rationale, and issues related to establishing nutrient requirements and dietary guidance for the population.
- Select and apply appropriate research methodologies to study designs.
- Apply evidence-based concepts and approaches to promoting nutritional health.

MS Curriculum: http://depts.washington.edu/nutr/MS.html

Master of Public Health (MPH)

The MPH degree in Public Health Nutrition prepares graduates for careers in governmental agencies, academic institutions, health care systems, or non-profit organizations. MPH students receive academic preparation in biostatistics, epidemiology, environmental health, health program planning, and advanced nutrition. The emphasis is on the core functions of public health, assessment, policy development, and assurance as they apply to public health nutrition practice. The MPH thesis tends to involve a community needs assessment or an evaluation of a real-world public health program. In addition, students complete practicum and fieldwork experiences that are relevant to program evaluation or planning. The MPH curriculum follows the *Curriculum Guide for Graduate Programs in Public Health Nutrition* (Strategies for Success), issued by the Association of Faculties of Graduate Programs in Public Health Nutrition. The expectation is that MPH graduates will be able to:

- Apply knowledge of human nutrient requirements and their relations to metabolic pathways and physiological function to nutrition practice and nutrition research.
- Perform an in-depth assessment of the nutritional status of individuals and groups.
- Appraise how nutritional factors across the lifespan affect etiology, incidence, and prevalence of non-communicable disease and quality of life.
- Explain and critique the process, rationale, and issues related to establishing nutrient requirements and dietary guidance for the population.
- Apply evidence-based concepts and approaches to promoting public health nutrition.
- Participate in policy analysis and program development and/or design, implement and evaluate population-based interventions.
- Select and apply appropriate research methodologies in intervention study design.

MPH Curriculum: http://depts.washington.edu/nutr/MPH.html

Graduate Coordinated Program in Dietetics (GCPD)

Most MS and MPH applicants seek entry into the Graduate Coordinated Program in Dietetics (GCPD) to work simultaneously toward completion of a graduate degree and the coursework and practice experiences necessary to become a Registered Dietitian or Registered Dietitian Nutritionist. The GCPD is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) and offers two concentration areas: Medical Nutrition Therapy (MNT) and Public Health (PH). Usually MS students select the MNT concentration and MPH students select the PH concentration. All GCPD students complete 1200+ hours of supervised practice in the following rotations: clinical, ambulatory, WIC (Women, Infants and Children), community, management, food service, and medical nutrition therapy or public health concentrations. GCPD graduates engage in client-centered health promotion, disease prevention, medical nutrition therapy, public health practice, and nutrition policy development.

Evaluation and Assessment of Graduate Student Learning and Satisfaction

Assessing Student Learning

Each course has learning objectives that are assessed through exams or assignments, including research papers, case studies, presentations, or group projects. In addition, student learning outside the classroom is evaluated periodically. At the conclusion of year one, all MS, MPH, and PhD students complete the Graduate Student Portfolio to demonstrate achievement of core competencies and show their readiness to progress with thesis or dissertation research (see **Appendix N** for Portfolio Template). All students participate in the annual student research symposium, where advanced students present their thesis projects to their peers and Program faculty. All MS and MPH students defend their thesis in an oral presentation prior to graduation. Doctoral students complete a written and oral general exam after completing their coursework and providing faculty with a dissertation proposal. Doctoral students also complete a final oral exam to defend their dissertation. The MPH and Dietetics students are regularly evaluated in their community-based fieldwork, practicum, or internship placements.

Assessing Student Satisfaction

Student satisfaction is assessed through the UW Graduate School's survey of graduates, student completion rates, participation of student representatives on Program committees, and formal or informal requests for student feedback on Program activities and the curriculum.

Evaluation and Assessment Findings and Improvements

While student and alumni feedback on individual courses is generally positive, two areas of concern have been identified for the Program overall: the heavy credit requirements for the degree programs and insufficient funding for student support and the research experience. The Program has taken a number of steps to address these important issues.

Streamlining Curriculum Requirements

Outside accreditation requirements stipulate that dietetic students must complete 1200+ hours of supervised practice under the mentorship of a dietetics or public health professional. MPH students are required to complete at least 360 combined practicum and fieldwork hours, more than the SPH norm. In 2008, the Dietetics Program combined the didactic and internship requirements into a Graduate Coordinated Program in Dietetics (GCPD). The Program was also able to combine the positions of Dietetics Program Director and MPH Practicum/Fieldwork

Faculty Coordinator to better integrate the MPH practicum and fieldwork with the Dietetics Practice Experience. These two changes provided opportunities to streamline the curriculum and reduce total credit requirements. The Program is continuing to discuss options to further streamline the curriculum, including a possible non-thesis option for master's students.

Improving Student Funding

In 2011, the Program allocated resources to develop a training grant proposal to the National Institutes of Health (NIH) that was well-scored but had to be withdrawn due to our inability to obtain matching funds from the School of Public Health. Since then, the number of research assistant (RA) positions has declined due to reductions in federal funding and the concomitant sharp increases in the cost of supporting an RA.

Fortunately, the launch of the Minor has provided more teaching assistant (TA) positions. Currently, we have more than 15 quarters of TA support that are available to students. However, despite increased TA funding, the Program is rarely able to offer full funding to students over multiple years. This contributes to negative perceptions when students learn that their peers in other SPH departments frequently receive research assistantships for the duration of their studies. To complicate matters, most MS and MPH students pursue concurrent training in dietetics that requires them to complete a full-time, unpaid, 9-month long internship that precludes RA or TA employment.

Non-Major Undergraduate Learning

In the absence of an undergraduate major in nutrition and food studies, the Program offers a popular 25-credit Minor in Nutritional Sciences. Its goals are to:

- Provide undergraduates a foundation of knowledge in the study of nutritional sciences, with a unique focus on the intersection of food, food systems, and population health.
- Provide a comprehensive perspective on the field of nutritional sciences, including its metabolic/biochemical, behavioral, and public health aspects.
- Examine food- and nutrition-related policies, practices, programs, and environments and their effects on population health and health disparities through the life course.

Students can select more science-driven courses as electives or choose courses that more broadly examine nutrition-related policy and practice. Several courses now serve as prerequisites or electives for five existing majors: Biology (general and physiology options), Early Childhood and Family Studies, Environmental Health, Nursing, and Public Health.

Instructional Effectiveness

Methods to Evaluate Instructional Quality

End-of-quarter course evaluations, conducted by the UW Office of Educational Assessment, are provided to instructors and are reviewed quarterly by the Program Director. Student evaluation scores for the last two academic years are in **Appendix M**. Peer reviews of faculty instruction are also conducted regularly per the University Policy Directory and Faculty Code.

Teaching Training

The course Nutrition for Today (NUTR 300) is now offered in both autumn and winter with total enrollment of more than 900. The enrollment in other courses has also grown and required instructors to redevelop courses and adopt new teaching methodologies. Training is available

to instructors and TAs through the UW Center for Teaching and Learning (CTL) and through informal idea/resource sharing and mentoring within the Program. Faculty members have participated in CTL's Large Class Collegium and workshops on engaging students and designing creative assignments and attended seminars on the use of active learning spaces on campus and practices to engage diversity in the classroom. However, the Program is unable to financially compensate faculty for their time spent attending these trainings. Examples of informal mentoring include sharing successful strategies for improving undergraduate course participation and increasing student engagement through "flipped" teaching, "think-pair-share" or small group discussions, and response clickers.

Instructional Improvements

Instructors actively encourage students to complete the course evaluations and regularly use students' input to revise and update their courses. As a result of student feedback, more formal mechanisms have been put in place to review course objectives, content, assignments, and speakers, and to identify gaps, prevent duplication, and strengthen the achievement of competencies. In addition, (1) an outside consultant was engaged to review NUTR 441 Molecular Gastronomy to enhance course content while assuring the dietetics competencies were met; (2) NUTR 300 Nutrition for Today and NUTR 411 Diet in Health and Disease were expanded to include weekly discussion sections to promote active learning strategies and allow students to synthesize and apply concepts learned in lectures; (3) NUTR 405 Physical Activity in Health and Disease, despite being constrained to a large, lecture-format class, has incorporated active learning concepts; and (4) clinical classes have incorporated video tools to record mock counseling sessions and have students present dietetics practice guidelines to clinicians to better prepare them for work in clinical settings.

Teaching and Mentoring Outside the Classroom

Student Learning and Development Outside of the Classroom

Thesis research is required for MS, MPH, and PhD students in Nutritional Sciences. Core and Interdisciplinary faculty members serve on student committees or involve students in their research programs. Research assistant appointments on faculty grants and contracts have served as the basis of student thesis or dissertation research. Faculty members have also engaged with community partners through fieldwork, practicum, or internship placements to provide additional training and research opportunities. An academic partnership with the local public health agency Public Health–Seattle & King County (PHSKC), managed by Dr. Otten, provided fieldwork and practicum opportunities for eight students over the past two years. Dr. Otten conducted weekly mentoring sessions to assist students with projects related to healthy vending, sugar-sweetened beverages, and children's meals in fast food restaurants.

Ensuring Student Progress

The Graduate Program Coordinator (GPC: Dr. Duncan), Program faculty, and student services staff all share a role in ensuring students' academic progress. The GPC serves as the initial faculty adviser for all graduate students. The Graduate Student Services Coordinator (GSSC) maintains a checklist of degree requirements for each student and reviews any issues with the GPC. Data on student progress from admission through graduation are provided in **Appendix H**.

All students participate in NUTR 529 Nutrition Research Design in their first quarter, followed by a faculty research symposium and student research symposium later in the year. Students then outline a timeline for their thesis or dissertation research in the Graduate Student Portfolio (summer after first year) and develop research proposals with faculty guidance in a second section of NUTR 529 during autumn of their second year. Following the appointment of a thesis committee, the primary responsibility for academic advising shifts to the committee chair. The GPC and GSSC continue to monitor academic progress and partner with the chair to address any concerns. Students in the GCPD also meet quarterly with the GCPD Director. Efforts to support students, including students from underrepresented groups, include identifying and assisting students in accessing relevant campus resources, such as GO-MAP, Disability Resources for Students, the Counseling Center, Hall Health, and tutoring, writing, and statistical consultation resources.

Professional Development and Career Planning

The long-term career goals of our MS/MPH students can be diverse and include public health or community wellness, clinical dietetics, academic research, or business. Some graduates have pursued doctoral study or medical education. Several career development opportunities are available to support these goals.

Our curriculum provides opportunities for students to develop their writing and presentation skills for academic, public health practice, and lay audiences. Gift funds allow students to attend regional and national meetings to present their research. Thanks to the generosity of a private donor, students have attended meetings sponsored by the food industry, such as the Institute of Food Technology (IFT) annual meeting.

To assist with the employment process, the Dietetics Program partners with campus resources, such as the UW Career Center and Harborview Medical Center's Director of Nutrition and Foodservices Department, to offer skill-building workshops on résumé writing, interviewing, salary negotiation, and how to get hired in the clinical setting. The Program also maintains alumni email lists for job announcement distribution.

Section III: Scholarly Impact

Faculty Productivity

Successful research in public health nutrition must be able to integrate scholarly knowledge of basic science with clearly defined public health objectives and policy goals. Among the many strengths of Program faculty members is their ability to conduct studies across disciplines that range from pathobiology and environmental health to nutritional epidemiology, built environment, community nutrition, maternal and child health, food systems, and food and nutrition policy. Whereas some faculty members excel in basic sciences, others help to shape health policy at the local, national, and international level.

In 2007, the Program was ranked in the top 10 of all nutrition departments nationally based on a measure of faculty productivity. The ranking, conducted by Academic Analytics and reported in the *Chronicle of Higher Education*, was based on faculty-authored articles and books; citations of those publications; and grants, honors, and awards received.

From 2012 to 2014, Core faculty published more than 300 peer-reviewed articles in high-impact journals and nearly 30 book chapters, public health briefs, policy documents, or other reports. Faculty members regularly serve as reviewers for journals in the field and several have served as guest editors for special issues/supplements. Dr. Otten, a junior faculty member, was lead editor on the frequently cited *Dietary Reference Intakes: The Essential Guide to Nutrient Requirements* and has authored national-level policy briefs.

Dr. Drewnowski's research was among the first to focus on social disparities in obesity rates. Published in the *American Journal of Clinical Nutrition*, the highest ranking journal in the field with an impact factor of 6.9, his 2004 paper on poverty and obesity is in the top 20 most-cited AJCN articles of all time. Dr. Drewnowski published more than 20 papers in 2014 alone.

Program faculty members have been very successful in attracting research support. Since 2005, Core faculty have brought more than $20 million in grants and contracts to the University of Washington, the Fred Hutchinson Cancer Research Center (FHCRC), and Seattle Children's Hospital. At this time, several Core faculty are Principal Investigators (PIs) or Co-Investigators on one or more research grants funded by NIH (Beresford, Drewnowski, Duncan, Johnson, Kratz, Lampe, Neuhouser, and Rosenfeld), Centers for Disease Control (CDC) (Johnson), the Robert Wood Johnson Foundation (Johnson, Otten), Washington State Department of Health (Johnson, Otten), and the City of Seattle (Otten).

Dr. Neuhouser is PI on five NIH-funded grants and is a Co-Investigator on eight additional NIH grants and contracts. She has authored more than 200 peer-reviewed manuscripts in the nutrition and biomedical literature. As an example of program synergies, Dr. Neuhouser was recently awarded a 5-year NIH grant (scored in the 2nd percentile) that extends the work of a doctoral student (Dr. Martine Perrigue, 2013) on the health impact of eating patterns.

Dr. Drewnowski secured a competitive 4-year renewal of the NIH-funded Seattle Obesity Study ($2.1 M for 2012–2015) and Dr. Duncan was recently awarded a 5-year research grant, also by NIH, for work with twins. Dr. Duncan is the Director of the UW Twin Registry, a unique research resource consisting of more than 9,000 pairs of identical and fraternal twins with extensive survey, biological, and environmental exposure measures available.

Academic Public Health Nutrition Practice

Based on links with internal and external partners in public health organizations, health agencies, and other universities, the Program has had a substantial impact on policy and practice at the local, state, and national levels. The Center for Public Health Nutrition, directed by Drs. Drewnowski and Johnson, has been a partner in the Steps to a Healthier US program, the King County Overweight Prevention Initiative, the Kellogg-funded Food and Fitness Initiative, and the CDC Communities Putting Prevention to Work program. Drs. Johnson and Otten have conducted studies in schools, child care settings, community clinics, worksites, and farmers markets, and with participants in the Supplemental Nutrition Program for Women, Infants and Children (WIC). That work, funded by the CDC, US Department of Agriculture, NIH, Health Resources and Services Administration/Maternal and Child Health Bureau, and the Bill and Melinda Gates and Robert Wood Johnson Foundations, aims to generate new knowledge through community-based research, evaluation, training, and communication. It has helped policymakers implement and evaluate food and nutrition policies and programs.

Following the theme of academic nutrition practice, Dr. Otten spent one day per week at Public Health–Seattle & King County in 2013 and 2014 as Senior Research and Policy Specialist. The position, created to allow PHSKC to draw on the UW academic expertise, benefited county-wide programs on healthy eating and active living and addressed such issues as vending, sugar-sweetened beverages, and commercial food waste.

This synergy between academic public health and practice activities is critical to the training of the next generation of public health practitioners. Students benefit from opportunities to join research teams, conduct secondary analyses of research data, and learn from public health practitioners as part of formal classroom learning and field experiences.

Translating Basic Science Training to Public Health Objectives and Policy Goals

Few other programs nationwide have comparable links to local, state, and federal health agencies and the private sector. Dr. Otten was appointed to the Kitchen Cabinet, advising King County Executive Dow Constantine on ways to improve the local food economy, while simultaneously improving access to healthy, affordable food throughout the county. She also serves on King County's Local Farms and Food Roundtable and the Washington State Food Systems Roundtable. Dr. Otten is also a faculty mentor for the Strategic Analysis and Research Training (START) program, funded by the Bill and Melinda Gates Foundation, which aims to train UW students to produce timely, relevant, and high-quality applied research for use in a real-world setting. Drs. Johnson and Otten have been prominent in the national CDC-sponsored Nutrition and Obesity Policy Research and Evaluation Network, where they have each led workgroups and established strong relationships with researchers at other universities. Dr. Johnson is currently evaluating a national Collaborative Innovation and Improvement Network of state maternal and child health public health nutrition leaders who are joining together to improve approaches to pediatric nutrition and obesity.

In the national arena, Dr. Duncan has been a member of NIH scientific review panels and is an invited expert for the obesity/adiposity working group of the NIH PhenX Toolkit (NHGRI). Dr. Neuhouser was one of 15 national experts selected to serve on the 2015 Dietary Guidelines Advisory Committee. Dr. Otten serves on the prestigious American Heart Association (AHA) Nutrition and Lifestyles Committee. Dr. Drewnowski has testified before the 2010 Dietary Guidelines Advisory Committee and has appeared multiple times before the AHA Committee. His service on the Institute of Medicine National Academy of Sciences Standing Committee to Prevent Childhood Obesity (2008–2013) has helped shape and develop Academy workshops and reports. Ms. Ogata was lead author on the Academy of Nutrition and Dietetics' position paper, Nutrition Guidance for Healthy Children, and was a member of the working group for NIH's Phenylketonuria Review Conference.

The Program's reach is international. Dr. Duncan is developing international collaborations through his work with the International Society of Twin Studies and International Network of Twin Registries. Dr. Drewnowski was on sabbatical leave during 2012, appointed as visiting professor at the University of Paris. During that time, Dr. Drewnowski chaired an international commission to evaluate the performance of the food studies and consumer division of the French National Institute for Agronomic Research; advised on the French National Plan for Nutrition and Health; gave lectures; and chaired doctoral dissertation committees at the

University of Burgundy and elsewhere. Dr. Drewnowski was the 2008 Astor Visiting Lecturer at the University of Oxford in the UK, was the 2010 laureate of the Prix Benjamin Delessert in Paris, and gave the Bradford Hill seminar at the University of Cambridge in 2013. More recently, Dr. Drewnowski was involved in meetings preparatory to the 2015 Milan Expo that will focus on the future of global food systems and has contributed to the Center for Integrated Modeling for Improved Agriculture and Nutrition Security (CIMSANS) and its work on new metrics for sustainable diets.

The Program has also been a magnet for international visiting scholars, researchers, and students who have come to work on a variety of projects.

- Philippe Giabanelli, University of Cambridge, England, expected November 2015
- Alfonso Mendoza-Velázquez, Professor, Universidad Autónoma de Pueblo, Mexico, September 2013–September 2014
- Laufey Steingrímsdóttir, Professor, University of Iceland, February 2014–May 2014
- Tom Burgoine, Postdoctoral Fellow, University of Cambridge, England, 2014
- Marc Fantino, Professor, University of Burgundy, France, May 2013–June 2013
- Matthieu Maillot, Gabriel Masset, Josephine Pean, students from AgroParisTech, France
- Jaakko Kaprio, University of Helsinki, Finland

Awards and Honors

Program faculty members have received numerous awards and honors.

- Dr. Drewnowski was inducted in 2014 as Fellow of the American Society of Nutrition, the highest honor the Society bestows. The Fellowship recognizes individuals for their significant discoveries and distinguished careers in the field of nutrition.
- Dr. Johnson was the 2014 recipient of the SPH Outstanding Faculty Teaching Award and was nominated for the 2015 Marsha L. Landolt Distinguished Graduate Mentor Award.
- Dr. Lampe received the American Society of Nutrition's 2014 Mary Swartz Rose Senior Investigator Award, recognizing outstanding research on the safety and efficacy of bioactive compounds for human health. Dr. Lampe received the School of Public Health Mentoring Award and FHCRC McDougall Mentoring Award in 2009.
- Dietetics Program Director, Ms. Lund, was nominated for the Academy of Nutrition and Dietetics, 2015 Outstanding Dietetics Educator Award.
- Dr. Neuhouser is the 2014 Vice-President Elect for the American Society for Nutrition (ASN), which will be followed by terms as Vice-President and President. Dr. Neuhouser serves on the ASN Strategic Oversight Committee, the Public Information Committee, and the Young Investigator-Postdoctoral Fellow Committee.
- Dr. Otten is Associate Editor for *Translational Behavioral Medicine: Practice, Policy, and Research*.

Impact of Students and Graduates

The Program's training activities are responsive to the state, regional, and national needs. Students are trained to conduct academic research, assume leadership positions in health agencies, or work as dietetics practitioners to meet private and health care sector needs. MPH and dietetics students contribute more than 15,000 hours of service in sites, including hospitals,

local and state public health agencies, schools, and non-profit organizations. During the MPH practicum, students partner with agencies to complete a 320-hour project to address agency needs (see http://depts.washington.edu/nutr/mph_practicum.shtml). Many students have successfully published their thesis or dissertation research. Students' accomplishments have been recognized with competitive scholarships and honors from local, state, and national organizations. Student publications and awards are summarized in **Appendix J.**

Program graduates continue to be leaders in nutrition science and policy and some have achieved national and international reputations. Employers and job titles for recent graduates are listed in **Appendix K**. PhD graduates from the past 10 years hold academic positions at the University of North Carolina (Brian Bennett, Assistant Professor), University of Minnesota (Sabrina Peterson, Associate Professor), Baylor University (Colonel Leslee Funderbunk, Director, Graduate Program in Nutrition), University of Washington (Michelle Averill, Acting Assistant Professor), and College of Charleston (Olivia Thompson, Assistant Professor). Many MS and MPH graduates with RD training from the past 10 years are employed as clinical, outpatient, research, and consultant dietitians or nutrition and public health program managers. Recent MS and MPH graduates without RD training are mostly employed in research positions or pursuing doctoral training. The following examples are provided to highlight the range of past activities:

- Brian Bennett (PhD, 2006): Dr. Bennett worked with Dr. Rosenfeld on the impact of bone regulatory proteins and diet on the calcification of atherosclerotic lesions. He went on to complete his post-doctoral work at UCLA, earning a K99/R00 "Pathways to Independence Award" from NIH in 2010. He is now at the University of North Carolina Nutrition Research Institute and Department of Genetics, where he continues to lead research on genetic and dietary factors and the susceptibility for atherosclerosis.
- Pablo Monsivais (MPH, 2007): Dr. Monsivais completed his thesis on the cost of energy-dense foods with Dr. Drewnowski and continued to work with the UW Center for Public Health Nutrition first as research scientist (2007–2010) and then as Acting Assistant Professor (2010–2011). He is now Senior University Lecturer at the Centre for Diet and Activity Research (CEDAR) and Program Lead for Dietary Public Health Research at Cambridge University in the UK.
- Carrie Dennett (MPH/RD, 2013): Ms. Dennett completed her thesis research with Dr. Brian Saelens at the Seattle Children's Research Institute. She received Outstanding Student Awards from the Academy of Nutrition and Dietetics Women's Health Practice Group and the Washington State Academy of Nutrition and Dietetics. She provides virtual nutrition coaching and nutrition communications consulting, writes a nutrition column for the *Seattle Times*, and is outpatient dietitian at Northwest Natural Health.
- Melissa Edwards (MS, 2014): Ms. Edwards completed her MS thesis with Dr. Lampe while working as clinical dietitian at Seattle Children's Hospital. Her research on the "Comparison of Gut Microbial Community in Patients with Phenylketonuria (PKU)" was supported by funds from the Academy of Nutrition and Dietetics Pediatric Nutrition Practice Group. Ms. Edwards has continued her work in clinical dietetics.

Research and Curriculum Collaborations

The Program is engaged in partnerships around nutrition policy research and evaluation with faculty in the School of Medicine (Pediatrics), the College of Built Environments (Urban Planning), the School of Social Work, the School of Design, and the Evans School of Public Affairs. Drs. Drewnowski and Duncan have a long-standing collaboration with the Urban Form Lab (UFL) in the College of Built Environments (CBE) and partnered with the UFL to conduct multiple studies on spatial analysis of the built environment using Geographic Information Systems approaches. Dr. Drewnowski has published papers with investigators at Group Health Research Institute on the mapping of obesity, diabetes, and the metabolic syndrome across Seattle space. Dr. Otten has submitted multiple internal and external grants together with researchers in the Evans School, School of Social Work, and School of Design.

To advance research on the etiology and progression of cardiovascular diseases, diabetes, and chronic kidney disease, Drs. Averill and Rosenfeld have developed collaborative research partnerships spanning the departments of Environmental and Occupational Health Sciences, Pathology, Medicinal Chemistry, Epidemiology, and Biostatistics. Dr. Rosenfeld has secured a $400K grant to examine RANK/RANKL and vascular complications in chronic kidney disease. Dr. Averill received a Pilot and Feasibility award from the Nutrition and Obesity Research Center to study postprandial changes in HDL composition. Dr. Averill is also a member of the nutrition working group for the Multi-Ethnic Study of Atherosclerosis (MESA). MESA is a National Heart, Lung, and Blood Institute–funded multi-site cohort study that has a coordinating center at UW, a diet center at Baylor University, and six field centers across the US. Dr. Averill has taken an active lead in developing a cardiovascular events-based project within this consortium.

Core faculty members are currently listed as mentors on eighteen training grants funded by NIH and the Health Resources and Services Administration, with several in the area of obesity, dietary behavior, and health promotion. The UW has been awarded five training grants in the area of maternal and child health. Four of these grants have nutrition trainees who are graduate students in the Program. Dr. Johnson and Ms. Ogata, listed as mentors, work with non-nutrition faculty to provide curriculum for nutrition and non-nutrition trainees and provide broader training and technical assistance to professionals across the western states. These long-term relations that have been built over the past 30 years have led to collaborative studies in such areas as nutrition and autism, nutrition for preterm infants, breastfeeding policies and services, maternal nutrition, nutrition and oral health, and advocacy for nutrition services and population-based nutrition promotion based on a life course approach.

Cross-institution collaborations are evident in the undergraduate curriculum development. The seminar in nutrition (NUTR 490/500) focuses on a different theme each quarter. The autumn 2014 theme was sustainable food and nutrition security. Invited guest lecturers included Dr. Allison (College of the Environment), Dr. Peña (Anthropology, Arts & Sciences), and Celeste Schoenthaler (Public Health–Seattle & King County). The winter 2015 theme is global nutrition and food justice, with multiple guest speakers drawn from the Global Health Department and the Evans School of Public Affairs.

The food systems courses (NUTR 302 Food Studies: Harvest to Health and NUTR 303 Neighborhood Nutrition) engage with food experts and activists, touching on such topics as the

structure and management of UW Dining Services, urban agriculture, farming in King County, community supported agriculture, local food retail, food advertising and marketing, community outreach, and local and national food and nutrition policies. Students create YouTube videos aimed at changing behaviors in their peers and conduct a neighborhood food audit.

Dr. Averill is involved in several novel interdisciplinary teaching experiences. For the undergraduate course SPH 381 Science and Public Health, developed for Public Health majors, Dr. Averill works with faculty from Environmental and Occupational Health Sciences and Global Health to provide an integrated curriculum. At the graduate level, Dr. Averill and Ms. Lund participate as Core faculty members for the Interprofessional Education (IPE) curriculum, a collaborative course series developed to promote cross-disciplinary training and interaction for students in the Health Sciences disciplines, including dietetics students.

There are additional collaborations with UW summer programs in Spain and Italy, both of which study food in relation to culture. Led by Dr. Ana Gómez-Bravo, the program in León, Spain, in the summer of 2014 had 26 students and a TA from Nutritional Sciences. Led by Dr. Ann Anagnost, the Rome program in Anthropology had 26 students, including some from the Nutritional Sciences Minor. These curriculum collaborations are essential to expand nutrition presence across the UW campus.

Junior Faculty Success

Current junior faculty are appointed in two SPH departments: Health Services and Environmental and Occupational Health Sciences. In addition to mentoring within the Program, junior faculty receive research and career mentoring through their home departments. The Department of Health Services offers mentoring in two ways: a junior faculty group that meets monthly to discuss and have speakers present on research-related topics and a one-to-one mentor to specifically guide career development. The junior faculty group is active and supported by a senior faculty. Faculty mentors meet regularly with junior faculty and document annual progress for the department. The Department of Environmental and Occupational Health Sciences (DEOHS) assigns each junior faculty two faculty mentors. Junior faculty meet quarterly with their mentors, who then document progress for the department. In addition to the assigned mentors, DEOHS junior faculty can meet with the Assistant Chair for Research and Faculty Engagement to help identify interdisciplinary research opportunities among the diverse faculty. Departmental mentoring is often unable to address the unique challenges junior faculty in interdisciplinary programs may encounter (described in **Part B**).

Section IV: Future Directions

Is the unit taking advantage of new developments in nutrition?

One of the most interesting recent developments in nutrition has been the convergence sought between sustainable food systems, nutrition, and public health. The Program has attempted to capture this trend through new classes focusing on various aspects of sustainable and resilient food systems. At this point, most efforts have turned toward undergraduate teaching, though graduate courses are also under development. We believe that this area presents major potential for Program expansion as discussed in greater detail below.

Given the depth and breadth of faculty expertise, the Program is exceptionally well-poised to bring together the disparate threads in nutrition and food studies across the UW campus by leading the creation of a new interdisciplinary undergraduate degree.

We propose to build a multidisciplinary undergraduate major in Food and Nutrition at the University of Washington and pair it with a world-class research program. The focus will be on developing and implementing solutions that address the US food supply and its many health consequences, including obesity and non-communicable diseases.

Why the new initiative?

The most widespread and daunting public health concerns in the US over the past decade can be viewed as consequences of our broken food system. The childhood obesity crisis is clearly linked to the food supply chain, social and income inequalities, food prices and diet costs, corporate practices, marketing and advertising, and—to some—environmental ruin. The problems are complex, daunting, and interconnected, involving multiple sectors and many levels. Consider the following unintended consequences of our current food system:

- *Diet-related illness.* Dietary risks, such as inadequate consumption of fruits and vegetables and overconsumption of refined grains, added sugars, and added fats, are now the leading cause of disease burden in the US. Two-thirds of Americans and more than one-third of children and adolescents are overweight or obese. Almost 10% of medical costs in the US (estimated $147 billion) are tied to obesity and its health sequelae: diabetes, cardiovascular disease, and metabolic syndrome.
- *Compromised food safety.* Food recalls due to safety issues are becoming more common and more serious. In 2010, an egg producer was forced to recall 380 million eggs due to risk of salmonella. In 2013–2014, over 600 people in 26 states were infected with a multidrug-resistant pathogen (*S. Heidelberg*) in raw chicken; 42% of the victims were hospitalized.
- *Increased antibiotic resistance.* Scientists around the world have provided strong evidence that antibiotic use in food-producing animals contributes to the emergence, persistence, and spread of resistant bacteria. Each year in the US, at least 2 million people become infected and at least 23,000 people die as a direct result of these infections.
- *Water pollution.* Crop fertilizers have been shown to be the largest source of runoff of nutrients (e.g., nitrogen, phosphorus) that pollute surface waters (i.e., lakes, rivers) or groundwater, leading to eutrophication, destruction of aquatic habitats, and fish kills.
- *Soil depletion.* Monoculture crops dominate the US farm landscape. Reliance on monocultures has created greater soil loss both in terms of quantity and quality, rendering it more susceptible to wind and water erosion.
- *Loss of farmland*. As our population has become more concentrated in urban areas, it is estimated that we lose prime farmland at a rate of almost 3,000 acres per day—at a time when populations are increasing.
- *Greenhouse gas emissions*. Worldwide, agriculture accounts for 10-15% of total greenhouse gas emissions. If we include processing, packaging, and distribution, the US food system alone accounts for 15-20% of total energy use.

- *Aging farmer population*. The cost of establishing a farm has risen so dramatically that it is nearly prohibitive for new farmers to enter into the profession. This has led to an aging of the farming population, with the average age estimated to be close to 60 years of age.
- *Worker exploitation*. Large farms and concentrated processing facilities require enormous labor forces. Many rely on migrant workers or undocumented workers who are often exposed to toxic chemicals and have high rates of on-the-job injuries.
- *Inequitable food access and food security.* Deep economic inequities, in terms of access to affordable and healthy food, may underlie the observed social gradient in health.
- *Food waste.* Production, retail, and consumer losses account for the fact that about 40% of edible food in the US food supply is wasted and disposed of—at a time when 47 million Americans are going hungry or are food insecure.

A social movement around sustainable and healthier foods is increasingly apparent, fueled partly by greater awareness and outrage over the broken food system. Food-related issues have ascended to a new level of prominence as demonstrated by newspaper coverage, books, films, and legislation. The time is ripe for leading institutions such as the UW to define the core problems, identify challenges, and prioritize and direct the solutions.

Why the University of Washington?

The University of Washington is uniquely positioned *geographically*, *culturally*, and most importantly, *academically* to generate solutions to broken food systems and its concomitant problems. These three factors together make Washington State an ideal learning laboratory.

- Geographically, Washington State is rich in knowledge, data, and world-class expertise surrounding food production agriculture. Food production agriculture in Washington State is a $49 billion industry that employs 160,000 and contributes 13% to the state's economy. Agriculture is the state's largest employer and the largest single sector of its economy. Washington State produces more than 300 commodities, ranking first in the US for 11 commodities, including apples, cherries, pears, red raspberries, and hops. Washington State is in the top five states in both fruit and vegetable production.
- Culturally, the fertile land and waterways have long been cherished attributes of Washington State. In addition to being rich in farmers markets, Washington State has been a founding member of the local food movement. The City of Seattle has its own Food Policy Advisor and King County and Washington State offer countless initiatives aimed at improving their food systems, including the Local Farms and Food Roundtable, the Washington State Food Systems Roundtable, the King County Kitchen Cabinet, and the Puget Sound Regional Food Policy Council, among others.
- As one of the world's premier research universities, UW researchers pursue transformative new ideas and solutions to seemingly intractable challenges and prepare students to become the next generation of leaders. Sustainability has long been a hallmark of the university and at the heart of many of its initiatives. Many undergraduate and graduate courses are centered around nutrition and food studies. In particular, the NUTR 302 (Food Studies: Harvest to Health), 303 (Neighborhood Nutrition), and 412/512 (US Food and Nutrition Policy) courses provide a discussion forum for student food issues, from the student-driven UW Farm to the UW Food Co-op and the Husky Real Food Challenge.

- The University of Washington Schools of Medicine, Nursing, Pharmacy, and Social Work all rank in the top 10 nationally, attracting a large body of pre-health sciences undergraduates. An undergraduate major in Food and Nutrition at the University of Washington is primed to provide the scientific and health background while exposing the students to the complex challenges of diet and health in the population. *The Lancet* reported that a redesign in health education is necessary, acknowledging the need to adopt a "global outlook, multi-professional perspective, and systems approach." This highlights the importance of bridging the typical health sciences education with that in public health and food systems.

Few other universities in the US can bring such a rich diversity of relevant disciplines together at such a high level of expertise, in a state so abundant in food production and so rich in county and state initiatives regarding diets and health. Interest in the topic of nutrition and food systems resonates across multiple colleges and schools—and the entire UW campus—as no other topic can. Given sufficient resources, the UW can help direct the desperately needed paradigm shift in our country's approach to those aspects of food production, processing, distribution, marketing, consumption, and post-consumption that have a direct relevance to sustainable nutrition and to personal and public health.

Why the Nutritional Sciences Program?

For the past several decades, the Nutritional Sciences Program has led the way in nutrition and food studies. We teach more than 6,000 student credit hours on topics directly linked to nutrition, food systems, and food and nutrition policy, both in the US and abroad. That is more than any other unit on campus. Fixing the broken food system will depend on a new cadre of health professionals, whose training spans behavioral, social, and life sciences as well as food systems research and public policy. The graduate program in nutrition can also serve as the springboard for world-class research.

Complex problems require interdisciplinary approaches and the Program has a demonstrated ability to bring together faculty experts from a variety of disciplines in the service of public health. Faculty members and graduate students are participating in regional and state efforts by serving on the Washington State Food Systems Roundtable, the King County Kitchen Cabinet, and the Puget Sound Regional Food Policy Council. Program faculty and students have advised federal health agencies on policy matters—a current faculty member and a former student serve together on the 2015 Dietary Guidelines Advisory Committee. As diet-related health complications increase, so does the need for quality nutrition education and counseling. Our continued connection to clinical settings, maintained by the Dietetics Program, is very important for training public health practitioners.

What opportunities does the unit wish to pursue?

An interdisciplinary undergraduate major in Food and Nutrition is the next natural outgrowth of our efforts to date. Our proposed curriculum offers the opportunity for a unique experiential approach to foods and nutrition that encompasses business, information and systems design, the environment, policy, psychology, culture, and culinary arts. The proposed major cover the basic science of nutrition as well as competencies in the geographic, agricultural, economic, and political influences on food production, processing distribution, retail, and waste.

The development of the major will require substantial collaboration between different schools and colleges. The development of an interdisciplinary major would further the collaborative goals endorsed by Deans and Chancellors in a recent document describing the need for such partnerships in the activity based budgeting (ABB) environment. The major will support graduate students by expanding opportunities for teaching assistantships, research assistantships, and expanded mentoring opportunities in diverse areas of foods and nutrition, thereby ensuring the continued success of the graduate program.

PART B: UNIT-DEFINED QUESTIONS

What is our definition of success?

The usual metrics of success for an academic program involve degrees granted, papers published, and scholarly and policy impact at the local, national, and international level. We want to raise the bar when it comes to defining our success at the University of Washington.

First, the Program is committed to expanding the undergraduate curriculum in nutrition and food systems. These are clearly areas for growth. Second, the Program will maintain the excellence of its graduate education and professional training. However, given the lack of out-of-state tuition support and multi-year stipends, PhD admissions may have to be limited to those students who find an excellent match between their own interests and a long-term funded research program of their academic mentor.

To achieve those goals, we need to put the Program on sounder financial footing. This can be done by expanding the existing Minor, developing the Major, and increasing the number of slots in the GCPD for MS and MPH students. We will also need to develop new alliances and collaborations with Arts & Sciences, Business, and Nursing in both research projects and curriculum development.

Most importantly, we need to secure a suitable administrative home for the Program that would allow for optimum future expansion and growth. Creating a joint department spanning two or more schools or colleges is within the discretion of the Provost. That collaborative structure, consistent with the goals of the Deans and Chancellors report, would assure the stability of our graduate training program at the master's and doctoral level.

Finally, our faculty, and in particular our junior faculty, need more support than ever to succeed in this difficult economic climate. By building a sound economic foundation for the Program, we will be able to attract high-quality students and better support their training, research, and career efforts. By making our Core faculty even more interdisciplinary, we will be able to spread student mentoring and research tasks more evenly. By attracting world-class faculty to interdisciplinary studies in nutrition and food systems, we will advance the UW position as a thought leader in this area. Finally, we hope that these activities help our junior faculty achieve success and academic tenure. That is our definition of success.

How do we see the future of the Nutritional Sciences Program over the next 10 years?

The question "What is the best location for the Program to serve the needs of the University and the state?" is far from resolved and is up for discussion as part of the review process by the Graduate School.

Whereas the Program's academic direction is clear, its future administrative home is not. In mid-2013, Interim Director Dr. Johnson was informed that the Program was to move out of the Dean's Office and transfer without delay to the Department of Epidemiology. The proposed move raised some issues about shared governance and the continued status of the Program as both interdisciplinary and extra-departmental if it were to be housed in a single department.

If the Nutritional Sciences Program were to be governed entirely by the graduate faculty of Epidemiology, what provisions would be made to ensure shared governance, the interdisciplinary nature of the Program, and continued participation by faculty from other departments, colleges, or schools? Given issues of departmental home(s) and shared governance, the decision was made to allow the Program to remain the Dean's Office pending the Graduate School review.

Selecting the best future home for the Program will be a challenge. The Program faculty have identified and discussed these potential options:

- An extra-departmental program housed in the Dean's Office, School of Public Health.
- An autonomous unit housed within an existing department in the School of Public Health.
- Return as an interdisciplinary program to the Graduate School (status quo ante).
- An interdisciplinary department (or program) spanning multiple schools or colleges.

The situation is complicated by the fact that many administrative details, not just degree codes, are involved in any transfer. These involve instructional budgets, scholarship, endowment and gift funds, and staff appointments. In addition a number of factors are subject to negotiation and shared governance, including faculty appointments, new faculty hires, instructional and research salaries, pre- and post-award research administration, and institutional faculty and research support, to name a few.

How do we grow our undergraduate and graduate curriculum? How should the program adapt to shrinking institutional and federal funding?

At the graduate level, Program faculty have discussed a "4+1" option that would allow students in the Nutritional Sciences Minor to count final-year credits toward the graduate degree. The faculty have also discussed a non-thesis option for MS and MPH students and a one-year master's degree for credentialed Registered Dietitians who are seeking a graduate degree.

Given that the Program does not capture any indirect costs on faculty research and has received limited supplemental funds, the only revenue stream is provided by undergraduate tuition. To maintain the MS, MPH, and PhD graduate degree programs, we need to increase our commitment to undergraduate instruction. In deciding on the future administrative home for the Program, provisions will need to be made to ensure the Program captures sufficient revenues to ensure its long-term survival.

As part of this process, we have taken the initiative to develop new undergraduate courses. Nutrition and the Life Course (NUTR 310) will be taught for the first time in spring 2015 by Dr. Averill. Global Nutrition: Challenges and Opportunities (NUTR 420) will be taught for the first time in autumn 2015 by Dr. Gorstein, Clinical Associate Professor in Global Health. A new 200-level course on culinary nutrition science is being planned jointly with UW Housing & Food Services and will be taught in the demonstration kitchen in Lander Hall. More new courses are in the proposal phase, such as Creating Healthy and Sustainable Food Systems. We would also like to help other departments create food-related courses, notably Psychology (Psychology of Food), History (History of Food Regulation), and Design (Food and Information Design, Food Systems Design and Engineering).

How can the Program best support faculty in balancing excellent teaching, mentoring, research, and other requirements for promotion?

Few SPH faculty are fully supported by university funds. Because the SPH is so highly leveraged, the compensation package in many departments is finely calibrated to cover classroom teaching only, with the majority of salary support coming from research grants and contracts. Faculty members in the Program (and in the SPH) are increasingly concerned that they are not compensated for conducting informal learning sessions, independent studies, specialized seminars or workshops, or for mentoring and involving students in their research. The Program has tried to remedy this situation by providing faculty with some extra compensation for membership on thesis committees and other mentoring work, based on a point system.

An additional challenge for all interdisciplinary programs, including Nutritional Sciences, is that the faculty, both junior and senior, have a dual role. They participate in the admissions, curriculum development, teaching, and mentoring for the Program and increasingly are expected to do the same for their home department, all largely uncompensated in terms of salary support. That places an intolerable strain on junior faculty, who were recruited to meet the teaching and student mentoring needs of the Program. Under ABB, the lines of responsibility remain a grey area, since it is the Program and not the department that pays faculty members' instructional salary and the bulk of recruitment/start-up salary until research funding is obtained. On the other hand, research funds and the associated indirect costs remain with the home department and are not accessible to the Program.

As a result, the Program is unable to exempt faculty from teaching undergraduate courses, the only source of revenue, so that faculty members can concentrate on grant writing and developing their research careers. Those constraints apply to junior and senior faculty alike, though they assume special importance when it comes to maximizing the success of junior faculty in their chosen field. The Program would like to be able to more fully support junior faculty by providing additional funds not tied to teaching or by limiting the number of undergraduate student credit hours assigned to junior faculty.

Are there opportunities to expand the Graduate Coordinated Program in Dietetics?

The popular Dietetics Training Program, a major recruitment tool, has been restricted to a cohort of 12 per year given the scarcity of practice sites. Expanding the GCPD is dependent on the availability of clinical sites, and those in turn depend on higher-level negotiations between the University and the teaching hospitals. Past negotiations with the teaching hospitals have

failed at times to include discussion of dietetic placements. While students in Medicine, Nursing, Pharmacy, and Social Work generally find such placements, the dietetic interns may not.

To compound the problem, the dietetic preceptors are unpaid and offered only clinical courtesy appointments through the UW. To successfully expand the Dietetics Program, we need to build preceptor support to provide the necessary internship opportunities.

Can we take a hard look at career options in Nutritional Sciences?

The Program faculty discussed employment opportunities for MS, MPH, and PhD graduates with and without Registered Dietitian training. The highly desirable RD/RDN credential is a legally protected title that can be used only by practitioners who are authorized by the Commission on Dietetic Registration of the Academy of Nutrition and Dietetics. The majority of our graduates who earn the RD/RDN credential obtain employment as dietitians or nutritionists in either clinical or community settings. Examples of job titles for RD graduates include Clinical Dietitian, WIC Nutrition Coordinator, Oncology Dietitian, Retail Dietitian, and Research Dietitian. Employers and additional titles are listed in **Appendix K**. While some RDs had difficulties finding full-time employment following the economic downturn, the class of 2012 obtained employment within 6 months (67%) or 12 months (33%) of graduating.

Given that graduates without the RD credential often contact the Dietetics Program Director to ask if they can return to obtain the RD, we conclude that it is harder for non-RDs to obtain employment in nutrition. Even though the MPH is a recognized terminal degree accredited by the Association of Schools of Public Health, MPH graduates may have difficulties in obtaining positions in public health nutrition without the RD professional credential. Our Program is in advance of national policy by pairing RD training with a graduate degree.

How can future faculty hires be directed to meet the needs of the Program?

In developing its faculty hiring plans, the Program has to balance two often-competing needs. New assistant and associate professor hires are needed for succession planning to ensure that the Program can maintain and expand its excellent research productivity and training opportunities for graduate students. Several of the Program's senior faculty who contribute heavily in these areas are nearing retirement. However, junior faculty have more limited capacity to teach without impeding their research productivity. To sustain and continue to grow the undergraduate teaching that provides the majority of the revenue for the Program, we will need additional senior lecturers or lecturers who can focus primarily on undergraduate teaching without competing research demands.

How does the Program serve the School of Public Health Strategic Plan?

In the 2012–2020 SPH Strategic Plan, six emerging challenges were identified: global environmental change and human health; genomics and public health; obesity, food, physical activity, and health; health policy and health systems; public health implementation science; and social determinants of health. With the Program's interdisciplinary structure, strong academic public health connections, and research spanning foods, nutrition, and physical activity from basic science to policy, Nutritional Sciences is well positioned to contribute to teaching, research, and collaborations in these areas.

PART C APPENDICES

Appendix A: Nutritional Sciences Program Organization Chart

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Appendix K: Employers and Titles for Graduates, 2005–Present

Appendix L: Nutritional Sciences Courses

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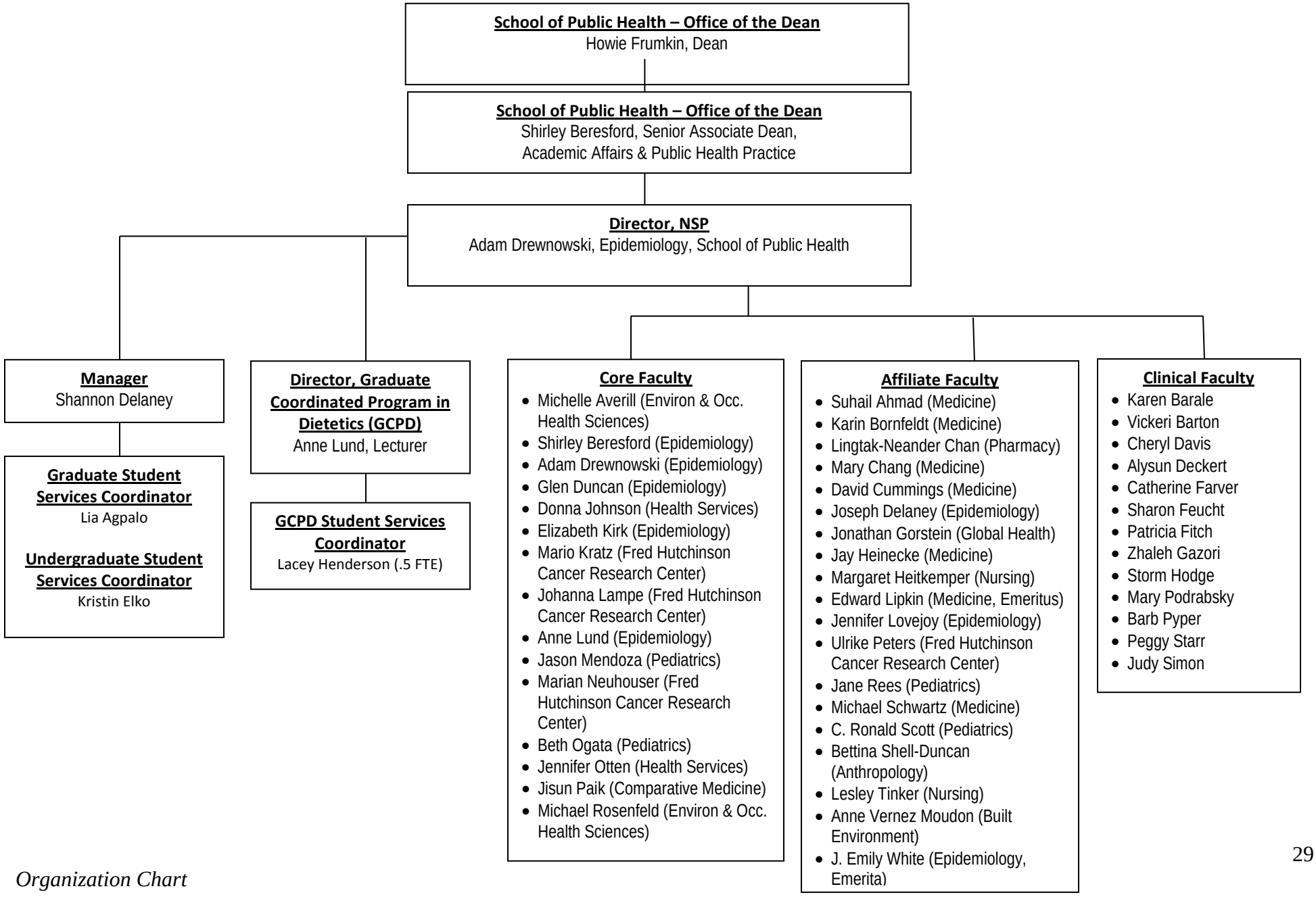
Appendix N: Graduate Student Portfolio Template

Appendix O: Proposal for Minor in Nutritional Sciences (Approved 3/13)

Appendix P: Nutritional Sciences Courses Used by Other UW Majors and Minors

Electronic Appendices: Faculty Curriculum Vitaes

Appendix A: Nutritional Sciences Program Organization Chart



Appendix B: Budget Summary

Biennium	2007–2009	2009–2011	2011–2013
Funding			
GOF	$976,815	$1,236,035	$1,262,391
PCE/Nonmatric Fee Net Revenue	$26,214	$31,869	$266,452
Endownment Income/New Gifts	$147,046	$191,535	$122,102
Total Funding	**$1,150,074**	**$1,459,439**	**$1,650,945**
Expenses			
Salaries & Wages			
Faculty	$715,303	$792,055	$650,062
Students (TA/RA/Trainee/Hourly)	$43,185	$81,890	$52,428
Staff	$218,471	$230,590	$257,884
Contracts & Services	$33,486	$33,738	$41,163
Travel	$3,724	$14,958	$9,864
Supplies & Materials	$16,190	$17,179	$35,855
Equipment	$0	$0	$14,990
Retirement & Benefits	$9,556	$100,471	$259,765
Scholarships	$83,767	$57,800	$127,268
Total Expenses	**$1,039,916**	**$1,328,682**	**$1,449,280**

Appendix C: Memorandum of Understanding with Office of the Dean

MEMORANDUM OF UNDERSTANDING – Dec. 1, 2014 Version

Nutritional Sciences Program

This MOU outlines the agreement between the Nutritional Sciences Program and the Dean of the School of Public Health. The MOU applies to the fiscal year 2015 (July 2014 through June 2015). It will be subject to annual renewal, and for next year will be informed by the upcoming report from the 2014-2015 Nutritional Sciences Program Review. The following understandings apply:

The Nutritional Sciences Program (NSP) is an interdisciplinary program in the School of Public Health (SPH), with its budget assigned by the Dean's Office, but managed by the Program. Its Director is accountable to the Dean of the SPH or his designee.

A. General Administration & Program Representation

- For the purposes of this agreement, the NSP is defined as academic activities of the core faculty, staff and students of the Program. At the time of this agreement, the academic activities are primarily educational activities related to the Nutrition interdisciplinary degree and certificate program curricula and students, and undergraduate courses including the Minor, while the research activities of core faculty are supported by the Departments to which each core faculty member belongs. The balance of academic activities in subsequent years may be modified by mutual agreement.
- The NSP is a longstanding interdisciplinary program, now residing administratively within the SPH. The NSP Director will maintain the responsibility for NSP's day-to-day program operations including admissions, curricular decisions, and student services.
- The NSP will maintain current membership arrangements on the SPH Faculty Council, CEPC, and other faculty governance committees according to the bylaws of those groups.
- The Office of the Dean is responsible for communicating critical information to the Program through the Manager of Program Operations and the Director of the Program, as appropriate.
- The NSP is responsible for its ongoing accreditation.
- It is expected that NSP Faculty will teach both nutrition curriculum coded courses and other SPH courses.
- The annual allocation of funds to the NSP will be decided by the Dean, after consultation with the NSP director, and consideration of the tuition revenue generated by NSP. Some factors that will impact the allocation not only include revenue generated by NSP, but also the needs of SPH, and the needs and plans of the NSP program, as presented by the Director to the Dean. .
- NSP policies for financial support of courses should be consistently applied and available to all Faculty.

B. Director of the Program

- The selection of the Program Director is made by the Dean in consultation with the NSP faculty.
- The Program Director is appointed by and serves at the pleasure of the Dean.
- The Program Director will report to the Senior Associate Dean, as the designee of the Dean of the SPH. The Senior Associate Dean will perform an annual review, as well as a 5-year comprehensive review, of the Program Director.

- The Director of the Program is expected to nurture the NSP and develop it into a world class academic program of nutritional sciences including all of the areas of teaching, research and service.
- The Director is expected to be vigilant in support of the SPH strategic plan and be sensitive to opportunities to support it. In particular, the Director and the NSP faculty are in ideal positions to model the types of interdisciplinary work that are needed in the Strategic Challenge areas outlined in the SPH strategic plan.
- The Director is expected to support and act as a role model for collaborating with other faculty and academic units across campus as opportunities arise.
- Signatory authority resides jointly with Senior Associate Dean and Program Director. This would include but is not limited to annual PCE budgets and other MOUs.

C. Academic Human Resources

- Faculty become members of the NSP by a vote of the NSP faculty. NSP faculty will maintain their primary academic appointments in their current home departments. (Appendix A)
- Faculty actions will be initially discussed and voted on by the core faculty of the program. However regular appointment, promotion, and retention actions, while informed by NSP vote, will adhere to the processes of the primary UW academic department of the NSP faculty member. Ordinarily the department will consider the recommendations from the NSP. The recommendations regarding faculty actions will be copied to the Manager of Academic Affairs in the Office of the Dean in the usual way.
- The NSP may request to initiate new faculty searches in one or more departments when required to meet program needs. Faculty searches will be run by the appointing department according to school and department policies, with input from the NSP core faculty.
- Assistance with other faculty and Academic HR processes such as establishing Graduate School Faculty status and appointing postdoctoral fellows and visiting scholars sponsored by NSP will be provided by the faculty's appointing department.

D. Staff Human Resources

- All NSP academic program staff appointments will be maintained within the NSP organizational unit (the Program), housed at the school level. No program staff should be appointed outside of the NSP organizational unit. The Office of the Dean will provide Human Resource support to the Program, including hiring and termination processes. (Appendix B)
- The SPH Dean's office will provide administrative support for the payroll process for all NSP academic program staff and student positions including Academic Student Employees (TAs, Top Scholar RAs, and GSA), hourly student assistants, and student staff assignments. Consistent with the provision of this payroll support, NSP staff will use Dean's Office HR policies, procedures, and tools. This includes, but is not limited to, the LTR system for Leave Time Reporting.

E. Finance

- All budget numbers related to NSP will be housed in a single organization code for the Program within the Office of the Dean. All other organization codes related to NSP will be closed or renamed with unambiguous titles. (Appendix C)

- The NSP will receive its SPH budget allocation for FY 2015 directly from the Dean's Office based on a budget submitted by the Program Director. The budgeting model will be re- evaluated with each renewal of the agreement.

F. Space, Technology & Equipment

- All inventory management will continue in the NSP.
- IT support will continue to be provided according to NSP arrangements
- The NSP occupies space on two levels in Raitt Hall as is detailed in Appendix D. Its space needs in the future will be allocated according to the standard SPH procedures, and overseen by the Chief Operating Officer of the Office of the Dean..
- The NSP will pay all infrastructure related fees for the Academic Program staff. NSP faculty will have fees paid in accordance with the policies of the appointing department. This includes, but is not limited to, the technology recharge fee, telephone fees, and Outlook fees.

G. Curriculum & Degree Programs (Admissions, Curriculum, Student Services, Tuition Setting)

- For attribution of tuition revenue, all NSP academic codes will be transferred to the SPH Office of the Dean. This includes major codes, minor codes, and curriculum codes (Appendix E). As of this memo, there are no academic codes currently within the Office of the Dean.
- The processes for curriculum development and review, UWEO program development, and other academic matters will remain the responsibility of the NSP faculty. There will be no expectation of support for these activities from non-NSP faculty or staff in the Office of the Dean.
- The NSP will retain its eligibility to nominate NSP students for Outstanding Student and other awards offered by SPH and the University of Washington.

These points are agreed to by

_____ _____

Adam Drewnowski, Ph.D. Date

Director, Nutritional Sciences
Program University of
Washington

_____ _____

Howard Frumkin, M.D., Dr.P.H. Date

Dean, School of Public Health
University of Washington

Appendix D: Faculty Affiliations

School/Department of Primary UW Affiliation	Faculty Member	Primary UW Appointment Title	NSP Affiliation (Role)	Additional Affiliations/Roles
School of Public Health				
Environmental and Occupational Health Sciences	Michelle Averill	Acting Assistant Professor	Core	• Clinical Coordinator, Graduate Coordinated Program in Dietetics
	Michael Rosenfeld	Professor	Core	• Professor, Pathology
Epidemiology	Shirley Beresford	Professor	Core	• Senior Associate Dean, School of Public Health • Adjunct Professor, Health Services • Member, Fred Hutchinson Cancer Research Center, Public Health Sciences Division
	Adam Drewnowski	Professor	Core (NSP Director)	• Director, UW Center for Public Health Nutrition • Director, UW Center for Obesity Research • Adjunct Professor, Medicine • Member, Fred Hutchinson Cancer Research Center, Public Health Sciences Division
	Glen Duncan	Associate Professor	Core (Graduate Program Coordinator)	• Director, UW Twin Registry
	Elizabeth Kirk	Senior Lecturer	Core	

School/Department of Primary UW Affiliation	Faculty Member	Primary UW Appointment Title	NSP Affiliation (Role)	Additional Affiliations/Roles
	Mario Kratz	Research Associate Professor	Core	• Adjunct Research Associate Professor, Metabolism • Associate Member, Fred Hutchinson Cancer Research Center, Public Health Sciences Division
	Johanna Lampe	Research Professor	Core	• Member, Fred Hutchinson Cancer Research Center, Public Health Sciences Division
	Anne Lund	Lecturer	Core (Graduate Coordinated Program in Dietetics Director)	
	Marian Neuhouser	Affiliate Professor	Core	• Full Member, Fred Hutchinson Cancer Research Center, Public Health Sciences Division
	Joseph Delaney	Research Assistant Professor	ID	
	Jennifer Lovejoy	Affiliate Professor	ID	
	Ulrike Peters	Research Professor	ID	
	Emily White	Professor Emerita	ID	• Member, Fred Hutchinson Cancer Research Center, Public Health Sciences Division
Global Health	Jonathan Gorstein	Clinical Associate Professor	ID	
Health Services	Donna Johnson	Professor	Core	• Associate Director, Center for Public Health Nutrition
	Jennifer Otten	Assistant Professor	Core	
	Mary Podrabsky	Clinical Instructor	Clinical	• Director of School Initiatives, Center for Public Health Nutrition

School/Department of Primary UW Affiliation	Faculty Member	Primary UW Appointment Title	NSP Affiliation (Role)	Additional Affiliations/Roles
	Karen Barale	Clinical Associate Professor	Clinical	• Associate Professor, WSU Pierce County Extension Educator • State Leader, Expanded Food and Nutrition Education Program
	Vickeri Barton	Clinical Instructor	Clinical	• Associate Director, Nutritional Services, Harborview Medical Center
	Cheryl Davis	Clinical Instructor	Clinical	• Inpatient Clinical Manager, Seattle Children's Hospital
	Alysun Deckert	Clinical Instructor	Clinical	• Clinical Nutrition Manager, University of Washington Medical Center
	Catherine Farver	Affiliate Assistant Professor	Clinical	• Director of Clinical Nutrition Services, Harborview Medical Center
	Sharon Feucht	Clinical Instructor	Clinical	• Nutritionist, Center on Human Development and Disability • Editor, Nutrition Focus Newsletter for Children with Special Health Care Needs, Clinical Training Unit, University of Washington • Project Director, Nutrition Services for Children with Special Health Care Needs
	Patricia Fitch	Clinical Instructor	Clinical	• Clinical Dietitian, UW Medicine/Northwest Hospital and Medical Center

School/Department of Primary UW Affiliation	Faculty Member	Primary UW Appointment Title	NSP Affiliation (Role)	Additional Affiliations/Roles
	Zhaleh Gazori	Clinical Instructor	Clinical	• Clinical Dietitian, UW Medicine/Northwest Hospital and Medical Center
	Storm Hodge	Clinical Instructor	Clinical	• Assistant Director, UW Dining, Housing and Food Services
	Barb Pyper	Clinical Instructor	Clinical	• Executive Director, Washington State Academy of Nutrition and Dietetics • Executive Director, Oregon Academy of Nutrition and Dietetics • Owner, An Apple a Day
	Peggy Star	Clinical Instructor	Clinical	• Clinical Dietitian, UW Medicine Valley Medical Center
	Judy Simon	Clinical Instructor	Clinical	• Clinical Dietitian, UW Medicine
School of Medicine				
Comparative Medicine	Jisun Paik	Research Assistant Professor	Core	
	Mary Chang	Lecturer	ID	
Metabolism, Endocrinology, Nutrition	David Cummings	Professor	ID	
	Jay Heinecke	Professor	ID	
	Edward Lipkin	Associate Professor Emeritus	ID	
	Michael Schwartz	Professor	ID	• Director, Diabetes and Obesity Center of Excellence
Nephrology	Suhail Ahmad	Professor	ID	• Chief Medical Officer, Northwest Kidney Centers
Pediatrics	Jason Mendoza	Associate Professor	Core	• Adjunct Associate Professor, Health Services
	Beth Ogata	Lecturer	Core	

School/Department of Primary UW Affiliation	Faculty Member	Primary UW Appointment Title	NSP Affiliation (Role)	Additional Affiliations/Roles
	Ronald Scott	Professor	ID	• Director, Biochemical Genetics Laboratory, Seattle Children's Hospital • Director, Molecular Diagnostic Laboratory, Seattle Children's Hospital • Director, Phenylketonuria Clinic
College of Arts and Sciences				
Anthropology	Bettina Shell-Duncan	Professor	ID	
College of Pharmacy				
Pharmacy	Lingtak-Neander Chan	Associate Professor	ID	• Associate Editor, Journal of Parenteral and Enteral Nutrition
School of Nursing				
Biobehavioral Nursing and Health Systems	Margaret Heitkemper	Professor	ID	• Chair, Behavioral Nursing and Health Systems • Director, Center for Research on Management of Sleep Disturbances • Adjunct Professor, Gastroenterology
College of Built Environments				
Architecture, Landscape Architecture, and Urban Design and Planning	Anne Vernez Moudon	Professor	ID	• Director, Urban Form Lab

Appendix E: Recent Graduate Coordinated Program in Dietetics Preceptors

Preceptors		
Name	**Position**	**Facility**
Jackie Allen	Food Service Manager	Talbot Center
Jill Allum	WIC RD	Renton
Kimberly Amudson	Technical Officer, Maternal and Child Health/Nutrition	PATH
Linda Astrom	Pediatric RD	Seattle Children's
Ben Atkinson	Outpatient RD, Manager	HMC
Jodi Augstine	Outpatient RD	Group Health Cooperative
Christine Avgeris	Cardiology, Endocrine	Seattle Children’s
Natalia Bailey	Inpatient RD: Neurosurgical ICU	HMC
Kelly Williamson Baisch	Critical Care	Valley Medical Center
Valerie Baldisserotto	Nutritionist	King County Public Health
Karen Barale	State EFNEP Leader / Extension Educator	WSU Extension/Pierce County
Carol Barker	Child Nutrition Supervisor	Auburn School District
Lisa Bartholomew	WIC Nutrition Coordinator, RD	Neighborcare Health WIC
Vickeri Barton	Associate Director of Nutrition Services	HMC
Sue Billingsley	Inpt RD; Medicine	UWMC
Chelsey Bobcek	Independent Sports Dietitian	Self Employed
Walter Bronowitz	Executive Chef Manager	Seattle Children's
Karol Brown	Dietitian	VA Puget Sound Health Care System
Amber Brust	Clinical Dietitian	Seattle Children's
Joyce Bumgarner	Conibear Manager/Registered Dietitian, Housing and Food Services Conibear Shellhouse	UWMC Conibear
Katie Busby	Coordinator	Seattle Public Schools
Peggy Busch	Supervisor, Clinical Nutrition	Providence Regional Medical Center Everett
Susan Bussell	Outpatient RD	UW Medicine Outpatient
Edith Cachero-Willard	Manager, Retail Services	UWMC
Janis Campbell-Aikins	Child Nutrition Coordinator/Dietitian	Auburn School District
JoAnne Card	Manager	Hearthstone Retirement
Susan Casey	Inpatient Pediatric RD: CF, Pulmonary	Seattle Children’s
Eileen Chikamura	WIC RD	WIC Columbia City
Maureen Chomko	Outpatient RD	UW Neighborhood Clinic
Molly Clark	Inpatient RD: Peds ICU, Burns, OTO ICU	HMC
Joy Coale	Outpatient RD Endocrine, Nephrology	Mary Bridge Health Center
Ann Coash	Dietetic Manager	Good Samaritan
Vic Coleman	JD, Director	Childhood Obesity Prevention Coalition
Tiana Colovos	Outpatient RD: Bariatric	UW Medicine Outpatient

Preceptors		
Name	**Position**	**Facility**
Karen Conger	Outpatient RD: adult medicine, weight management	HMC
Kim Cooperman	Neurosurg, neurodevelopmental RD	Seattle Children's
Erin Copley-Johnson	Clinical Nutrition Manager, Patient Care Services	MultiCare Health Systems
Anne Corley	Clinical Nutrition Supervisor	Good Samaritan Hospital
Elaine Cumbie	Ketogenic Dietitian	Seattle Children's
Cheryl Davis	Inpatient Clinical Manager, and RD in GI, Liver Tx, Intestinal Tx	Seattle Children's
Sheryll Davis	WIC Admin, RD	
Alysun Deckert	Clinical Nutrition Manager, Transplant Surgery	UWMC
Marta DeWulf	Owner	FoodN'Me
Julia Dinkins	CNPP Internship Program Coordinator	USDA Center for Nutrition Policy & Promotion
Alicia Dixon Docter	Outpatient Manager RD	Seattle Children's Hospital
Trixy Dorn	Community Events & Program Coordinator, MultiCare Center for Healthy Living	MultiCare Center for Healthy Living
Cassie Durfresne	Inpatient RD	Northwest Hospital and Medical Center
Emily Edison	Sports Dietitian, formerly w/ UW	Sports
Melissa Edwards	Inpatient Pediatric RD: Metabolic, PICU	Seattle Children's
Heather Eliason	Nutrition Consultant II WIC Administration Public Health	PH - S & KC WIC
Amy Ellings	Healthy Eating Active Living Program Manager	Washington State Department of Health
Dori Emmons	WIC RD	Kent East Hill WIC
Alison Evert	Outpatient RD, Diabetes Care Center	UWMC Roosevelt Clinic Diabetes Care Center
Debbie Fagala	Diet Technician	Northwest Hospital and Medical Center
Katie Farver	Director, Nutrition & Foodservices Department	HMC
Greg Fazzini	Executive Chef	HMC
Sharon Feucht	Clinical Dietitian	Center on Human Development & Disability (CHDD-UW)
Jessica Finger	Dietitian, Senior Services	Senior Services
Rebecca Finkel	Nutritionist	Odessa Brown Clinic/Seattle Children's Hospital
Patricia Fitch	Inpatient RD	Northwest Hospital and Medical Center
Laura Fortin	WIC RD	Mobile WIC
Jodi Frampton	Inpatient RD	HMC

Preceptors		
Name	**Position**	**Facility**
Celia Framson	Outpatient Pediatric RD: Medical eating disorder	Seattle Children's
Kirsten Frandsen	Program Coordinator	Tacoma Pierce County Health Department
Lindsay Frank	Inpatient RD: General Surgery/Medicine; Otolarygology; Neuro	UWMC
Amy Frasieur	Dietitian	Dietitian Consulting Services
Bonnie Fritz	WIC RD	WIC Downtown Public Health Center
Charlotte Furman	Wellness RD	UWMC
Anna Gabriel	CKNW RD	Seattle Tilth
Susan Gadau	Clinical Dietitian	Overlake Hospital
Annika Garman	Inpatient Dietitian	HMC
Heidi Gengler	Edelman, Food and Nutrition	Edelman, Food and Nutrition
Maggie Grate	Food Sense Program Manager	WSU King County Extension
Simone Hagerty	WIC RD	Federal Way WIC
Tran Hang	Endocrine RD	Seattle Children's
Mary Hanson	Clinical Manager	Group Health
Aliya Haq	WIC RD	WIC
Alisha Harmeson	Clinical Dietitian	Seattle Children's Hospital
Lindsay Harris	Dietitian	Dietitian Consulting Services
Jenny Harris	Clinical Dietitian	Swedish
Janis Harsila	Nutritionist	SNAC
Kathy Schiro Harvey	Nutrition Manager	Puget Sound Kidney Center
Lindsey Hays	Inpatient Rd: Acute Care Neurology	HMC
Laura Hitchcock	JD, Policy Research & Development Specialist	PHSKC
Storm Hodge	Assistant Director Dining Services, UW Housing and Food Services	UW
Laura Hooper	Outpatient RD: Adol Medicine, Surgery	Seattle Childrens
Lisa Howard	WIC RD	WIC Pregancy Aid of Snohomish County
Katie Huff	Nutrition & Fitness Coordinator	Northwest Kidney Centers
Kathryn Hunt	Dietitian	Seattle Childrens
Lindsay Irion	WIC RD	WIC Auburn Clinic
Jill Irvine	Inpatient Rd: NICU/Progressive Care	UWMC
Diane Javelli	Outpatient RD	UWMC Outpatient
Ashley Jones	Inpatient RD: Cardiac ICU, 3E, 4E	HMC
Terrie Jones	Clinical Dietitian	Puget Sound Kidney Center
Karen Junisko	Clinical Dietitian	Mt. St. Vincent
Janet Kapp	Nutrition Consultant	King County Public Health
Deborah Katz	Outpatient RD	UW Neighborhood Clinic
Emily Kelley	Inpatient RD; NICU/Progressive Care	University of Washington Medical Center

Preceptors		
Name	**Position**	**Facility**
Elizabeth Kellogg	Dietitian, General Medicine	Seattle Children's
Emily Kenney	Surgery RD	UWMC
Barb Kerrone	Dietitian	MultiCare
Dori Khakpour	Outpatient RD: Diabetes	UWMC
Lynne Kidder	Nutrition Consultant II WIC Administration, Travel Team Supervisor	Public Health-Seattle & King County
Kiersten Israel-Ballard		PATH
Lynn Kilgus	Clinical Dietitian	Good Samaritan
Gabe Kinney	Campus Executive Chef, Housing & Food Services	UW Dining
Dan Klocke	WIC	WIC Eastgate Public Health
Kay Kolahi	Outpatient RD: Maternal Infant Care Clinic	UWMC
Tricia Kovacs	Program Manager	Farm-to-School
Shoko Kumagai	Outreach & Education Specialisy | Farm to School Project Coordinator	WA Dep. of Agriculture, Farm-to-School Program
Cynthia Kupper	Executive Director	Gluten Intolerance Group
Blishda Lacet	MBA, MPH; Program Manager	PHSKC
Lance LaFave	Residential Dining Administrator	UWMC Connibear
Cam Lanier	Craniofacial/ Rehab RD	Seattle Children's
Toni Law	General Medicine/Surgery	University of Washington Medical Center
Claire Leamy	Program Assistant	Operation Frontline
Lance LeFave	Manager	UW Dining
Kirsten Leng	RD	WithinReach
Polly Lenssen	Clinical Nutrition Manager	Seattle Children’s
Carla Levesque	Nutritionist	Country Doctor Community Health Centers
Yetta Levine	EthnoMed.org; Program Coordinator	Ethnomed, Harborview Medical Center
Sarah Lewis	MD	King County kinship Collaboration
Anne Linge	Registered Dietitian, Nutrition Services-Roosevelt	UWMC
Barbara Lloyd	Foodservice Director	Edmonds School District
Susan Luth	Clinical Dietitian	Seattle Children’s
Meghan Lyle	Clinical Dietitian	AIDS Alliance/ Chicken Soup Brigade
Sara Lynch	Pioneer Square, oncology, stroke	HMC
Krystal Lynn	Clinical	UWMC
Mary Mach	Clinical Dietitian	ProSports
Chris MacPherson	Dietitian	Talbot Center
Tracey MacRae	Campus Executive Chef, Housing & Food Services/UW Dining	University of Washington Housing and FoodService
Paula Charuhas Macris	Medical Nutrition Therapy Services	SCCA
Marlene Maltby	Inpatient Dietitian; relief, oncology	UWMC

Preceptors		
Name	**Position**	**Facility**
Beth Marcondes	Bone Marrow Transplant	UWMC
Serena Markanen	Manager of Nutr Servics	Highline Medical Center
Elisa Marley	Inpatient Dietitian; 7E, 4W	HMC
Julia Marnardi	BMT/Oncology	UWMC
Shona Martin	NICU Dietitian	UWMC
Lisa Martinez	WIC	Pregnancy Aid of Snohomish County
Gina Martone	Clinical Systems Manager	Seattle Children's
Mari Obara Mazon	Nutristionist/Nutrition Faculty	Pediatric Pulmonary Center/CHDD
Susan Gunther McBride	MICU,Cardiac ICU	HMC
Cricket McCleary	Manager	UWMC Outpatient
Courtney McCliment	Cardiac ICU, Nutrition Educator	HMC
Carolyn McGinty	Dietitian	WIC Snohomish County
Michelle Medrano	Clinical Dietitian	Da Vita
Lisa Messerli	Maternal, inpatient nutrition educator	HMC
Tina Messner	Craniofacial/Rehab	Seattle Children's
Charlotte Meyers	Clinical Nutrition Supervisor	NW Hospital
Stephanie Mitchel	Operations Manager	Swedish Medical Center
Melissa Montalto	Clinical RD, Cardiac	UWMC
Meghann Moore	Nutrition Management Consultant, Coordinator-Diabetes Self-Management Education Program	PolyClinic Quality Dept
Melissa Mortensen	GI, Liver Tx, Intestinal Tx	Seattle Children’s
Shelley Mullen	Foodservice	Seattle Children’s
Paj Nandi	Heart Disease and Stroke Program Manager	Department of Health
Chris Neal	Director Nutrition Services	Highline School District
Lorren Negrin	Clinical Dietitian	HMC
Charlotte Neilson	Outpatient Dietitian	HMC
Megan Nordlund	Clinical Manager; Burn ICU, Ped ICU, 8EH,	HMC
Beth Ogata	Clinical Dietitian	Center on Human Development and Disability
Renin Oliver	Clinical Dietitian	Northwest Kidney Center
Jan Oliver	Program Manager	Apple A day
Carita Osterback	Outpatient Nutrition	Overlake
Jennifer Otten	UW Faculty & RD	WA State Food Systems Roundtable
Aaron Owens	MS, RD, CD, CDE	Seattle Children's Hospital
Allison Parker	Inpt RD	HMC
Donna Parsons	Supervisor, Child Nutrition Services	Office of Superintendent Public Instruction (OSPI)
Heather Paves	Dietitian	Seattle Childrens
Martha Peppones	Manager	Senior Services
Elaine Percival	Dietitian	Neighborcare Health

Preceptors		
Name	**Position**	**Facility**
Mary Peterson	Endocrine RD	Mary Bridge Health Center
Carrie Pfab	Manager	WALWICA
Mary Podrabsky	MPH, RD	UW CPHN
Paula (Polly) Poole	Manager	Northwest Hospital
Mary Porter	Food & Nutrition Services Manager	Northwest Hospital and Medical Center
Adam Porter	Program Manager	Meals on Wheels - King County
Pat Prentice	Dietitian	WIC North Seattle
Barb Pullar	Manager FoodServices	HMC
Barbara Pyper	Director, An Apple a Day	Apple a Day Consulting
Emilee Quinn	Research Coordinator	CPHN/Fresh Bucks
Erin Ransco	Dietitian	Senior Services of Snohomish County
Suzanne	Clinical Dietitian	Multicare
Kristen Rezabek	Dietitian	Nutrition First
Kevin Roberson	Program Manager	Seattle Children's Hospital/Teen Life Center
Pam Robinson	Clinical Dietitian	Valley Medical Center
Shannon Ginn Robinson	Communications and Project Coordinator	School's Out Washington
Maura Sandrock	NICU, metabolic	Seattle Childrens
Mersedeh Schmidt	General Manager, Food Service	Providence Everett Medical Center
Celeste Schoenthaler	Program Manager	PHSKC
Alexandra Sees	WIC	Birch Creek
Beth Shanaman	Clinical Dietitian	Northwest Kidney Center
Marilyn Shelton	Surgery ICU, Trauma ICU, Clinical Nutrition Coordinator	HMC
Julie Shevlin	WIC	Snohomish Health District
Jaclyn Shusterman	Medicine; Gyn-Onc/Urology RD	UWMC
Judy Simon	Registered Dietitian, Food and Nutrition Services	UWMC
Bonnie Smith	Inpatient Dietitian; Heme-onc, gyn-onc/urology, rehab/psych	UWMC
Virginia Smith	Dietitian	Northwest Kidney Center
Sierra Stamm	Clinical Dietitian	Puget Sound Kidney Center
Peggy Starr	Clinical Dietitian	Valley Medical Center
Iwona Steplewska	Outpatient Dietitian	HMC
Jenny Stevens	Surgery RD	Seattle Children’s
Amanda Sullivan	Inpatient Dietitian; radiation/onc clinic	UWMC
Kristine Swanson	WIC RD	Group Health WIC
Kendra Swartz	Dietitian	Mt. St. Vincent
Jamie Tank	Clinical Dietitian	Camp Leo
Susan Thiel	WIC	WIC Eastgate Public Health
Ruth Thomas	Inpatient Dietitian; relief	HMC

Preceptors		
Name	**Position**	**Facility**
Kelay Trentham	Oncology Dietitian	Multicare
Andrea Unger	Inpatient Dietitian, Nutrition Educator, ED/Obs, PES	HMC
Monica Van Winkle	Outpatient RD	Nutrition in Action
Megan Vucinovich	20/20 Lifestyles	ProSports Health Club
Jaime Waliczek	Clinical Dietitian, Ambulatory Clinic	UWMC
Ginna Wall	Lactation Svcs Coordinator, RN3, Nursing Mother Baby Unit	UWMC
Diane Wearne	Foodservice	HMC
Kelsey Weinhold	RD	Auburn WIC
Wendy Weyer	Director, Nutrition Servicies	Seattle Public Schools
Ann White	Dietitian	Seattle Indian Health Board
Dannette Wickman	Director of Food Management and Nutrition	Valley Medical Center
Katy Wilkens	Dietitian	Northwest Kidney Center
Edith Willard	Food Service Manager	UWMC
Paula Wolfe	WIC	King County Public Health Center at Birch Creek
Soi Wong	Patient Food Services	UWMC
Andrea Yeckel	Executive Chef & General Manager- Local Point, UW Dining	UW Food Service
Joan Zerzan	NICU RD	UWMC
Charles (Chuck) Zielinski	Director, Food and Nutrition	UWMC

Graduate Coordinated Program in Dietetics (GCPD) growth and in-kind contributions

Academic Year	Graduate Coordinated Program in Dietetics, NUTR 561, 30 credits/student	In-kind hours by dietetic preceptors
2005-06	8 students	9000 hours
2006-07	8 students	9000 hours
2007-08	12 students	15,100 hours
2008-09	12 students	15,100 hours
2009-10	12 students	15,100 hours
2010-11	12 students	15,100 hours
2011-12	12 students	15,100 hours
2012-13	12 students	15,100 hours
2013-14	12 students	15,100 hours
2014-15 projected	12 students	15,100 hours

1258 hour x 12 students = ~15,100

Rotations

- Ambulatory - (3 weeks)
- Community - (3 weeks)
- Core clinical - (10 weeks)
- Food service - (3 weeks)
- Management - (3 weeks)

Recent Dietetics Preceptors

- WIC - (3 weeks)
- Medical Nutrition Therapy Concentration (7 week rotation, MS only)
- Public Health Concentration / MPH Practicum 7 weeks, MPH only)

Training Sites include: University of Washington Medical Center, Harborview Medical Center, Northwest Hospital & Medical Center, Children's Hospital and Medical Center, Providence Regional Medical Center Everett, Valley Medical Center, Pregnancy Aid of Snohomish County, Public Health Nutrition Seattle-King County, Maternal and Child Nutrition (Region X), Division of Wellness and Community Nutrition (Washington State Department of Health), Superintendent of Public Instruction (Administrative and School Business Services Child Nutrition, State of Washington), Department of Agriculture (Farm to School), Auburn School District, Washington State Extension Service, Community Health Clinics in Seattle/King County, WIC Seattle/King County, An Apple a Day, LLC, Neighborcare Health, EthnoMed,The Polyclinic, WithinReach, Meals on Wheels - King County, Child Care Health Program, Dietitian Consulting Services, Highline School District, Pro Sports, Center on Human Development and Disability, Operation Frontline, Northwest Kidney Center, Puget Sound Kidney, SNAC, Senior Services, WALWICA, UW Housing and Food Services, Seattle Pacific University, Cascade Harvest, Talbot Center, Multicare

Wellness Talks: Students provide two Wellness Talks to community groups. Sites include schools, senior centers, after-school facilities, etc.

Appendix F: Grants and Contracts with NSP Core Faculty as PI/PD for Projects Beginning 2005 or Later

Shirley Beresford

1. Explaining the SES/Overweight and Obesity Relationship, **SAA Beresford** & D Bowen, Joint Principal Investigators, National Institute of Diabetes & Digestive & Kidney Diseases R01 DK079042, $2,359,393 Total Direct Cost, role: Co-PI (15% effort), 2009-2014

Adam Drewnowski

1. Food environment, diet quality and disparities in obesity. **A Drewnowski**, Principal Investigator, NIH Grant R01 DK076608-07, $482,041 total costs, role: PI (20% effort), 2011-2015.
2. Creating a sustainable nutrition index. **A Drewnowski**, Principal Investigator, Danone Research, France, role: PI (10% effort), 2011-2012.
3. Accounting for the social gradient in diet quality and health. **A Drewnowski**, Principal Investigator, NIH Grant R21 DK085406-01, $345,000 total costs, role: PI (5% effort), 05/01/10 – 04/31/12.
4. Creating a universal nutrient profile model for developed and developing countries. **A Drewnowski**, Principal Investigator, Danone Research, France, $144,144 total costs, role: PI, 2010-2011.
5. Food environment, diet quality, and disparities in obesity. **A Drewnowski**, Principal Investigator, NIH Grant R01 DK076608-03, $1,502,941 total costs, role: PI (20% effort), 03/2008-03/2012.
6. Evaluating the effects of palatinose and fructans on appetite and food intake. **A Drewnowski**, Principal Investigator, Beneo Belgium, $189,285 total costs, role: PI, 2010-2011.
7. MSG and hedonics research program. **A Drewnowski**, Principal Investigator, Ajinomoto USA, $249,822 total costs, role: PI, 2009-2011.
8. Effects of soluble and insoluble fibers on hunger and satiety. **A Drewnowski**, Principal Investigator, Tate & Lyle Ingredients America, Inc., $123,027 total costs, role: PI, 2007-2008.

Glen Duncan

1. Fitness, fatness, and breast cancer biomarkers in overweight adolescent girls. **GE Duncan,** Principal Investigator, U54CA116847 (Developmental Core), $48,092 total costs, role: PI, 09/01/06–08/31/07.
2. Ubiquitous computing for the measurement of physical activity. **GE Duncan**, Principal Investigator, R21AG028719, $314,892 total costs, role: PI, 04/01/07–03/31/11.
3. Evaluation of the Lewis County healthy children project. **GE Duncan**, Principal Investigator, FA21713/A23548 (UW Subcontract with Centralia College, C Raff, PI), $90,000 total costs, role: PI, 06/01/07–05/31/10.
4. BALANCE: bioengineering approaches for lifestyle activity and nutrition continuous engagement. **GE Duncan**, Principal Investigator, R21AG032232, $647,522 total costs, role: PI, 09/30/07–07/31/11.
5. TWINStudy of environment, lifestyle behaviors, and health. **GE Duncan**, Principal Investigator, R01AG042176, $2,153,562 total costs, role: PI, 09/30/11 – 05/31/15.
6. Validation and application of portable particulate device in the UW Twin Registry. E Seto and **GE Duncan**, Co-Principal Investigators, R21ES024715, $389,298 total costs, role: Co-PI, 12/01/14 – 11/30/16; R33ES024715, $1,847,363 total costs, role: Co-PI, 12/01/16 – 11/30/19 (pending successful completion of 2-year R21 phase).

Donna Johnson

1. Policy, Legislation and Nutrition: What Works for Children's Health? **DB Johnson**, Principal Investigator, Robert Wood Johnson Foundation, $400,000 total costs, role: PI (20% effort), 2006-2009.

2. Policy Legislation and Nutrition Plus Physical Activity (PLAN-Plus): What Works to Improve Student Health? **DB Johnson**, Principal Investigator, Robert Wood Johnson Foundation, $40,000 total costs, role: PI, 2007-2009.
3. Unplugged and Media Savvy: Unplugged and Media Savvy: Reducing the impact of "screen" time. **DB Johnson**, Principal Investigator, NIH, $275,000 total costs, role: PI (15-20% effort), 2007-2009.
4. Cost and Quality: Economic Determinants Foods Served in Day Care Homes. **DB Johnson**, Principal Investigator, Robert Wood Johnson Foundation, $398,087 total costs, role: PI (15% effort), 2007-2010.
5. Analyzing and examining physical activity in family day care homes. **DB Johnson**, Principal Investigator, Robert Wood Johnson Foundation, $35,000 total costs, role: PI, 2008-2009.
6. Translating Nutrition Standards for Foods in Schools. **DB Johnson**, Principal Investigator, CDC, $100,000 total costs, role: PI (5% effort), 2007-2008
7. Process Evaluation of Seattle Public Schools Physical Education Curriculum. **DB Johnson**, Principal Investigator, Treeswing Foundation, $21,197 total costs, role: PI, 2008-2009.
8. Eat Better Feel Better Program Expansion. **DB Johnson**, Principal Investigator, Seattle Public Schools, $14,430 total costs, role: PI, 2008
9. DOH Obesity Prevention. **DB Johnson**, Principal Investigator, WA DOH from CDC, $48,317 total costs, role: PI (10% effort), 2008-2009.
10. Partners in Excellence for Leadership in MCH Nutrition. **DB Johnson**, Principal Investigator, MCHB/HRSA, $120,000 total costs, role: PI (15% effort), 2008-2009.
11. DOH Obesity Prevention. **DB Johnson**, Principal Investigator, WA DOH from CDC, $340,000 total costs, role: PI (10% effort), 2009-2011.
12. Partnering with Local Foods Systems Groups to Increase Fruit and Vegetable Consumption. **DB Johnson**, Co-Principal Investigator, USDA, $400,000 total costs, role: co-PI (15% effort), 10/2009-9/2012.
13. Nutrition and Obesity Policy Research Network. **DB Johnson**, Principal Investigator, CDC, $500,000 total costs, role: PI (10% effort), 10/2009-09/2012.
14. Communities Putting Prevention to Work- Treeswing/UW. **DB Johnson**, Principal Investigator, CDC – Pass through via PHSKC, $98,458 total costs, role: PI (10% effort), 07/2010-03/2012.
15. Collaborative Research Infrastructure to Transform School Health. **DB Johnson**, Principal Investigator, NIH, $1,000,000 total costs, role: PI (25% effort), 9/2010- 8/2013.
16. Assessing the impact of menu labeling in schools. **DB Johnson**, Principal Investigator, Robert Wood Johnson Foundation, $167,000 total costs, role: PI (10% effort), 11/2010-5/2012.
17. DOH Obesity Prevention. **DB Johnson**, Principal Investigator, CDC Pass through via DOH, $243,000 total costs, role: PI (15% effort), 06/2011-07/2012
18. DOH Obesity Prevention. **DB Johnson**, Principal Investigator, CDC Pass through via DOH, $203,000 total costs, role: PI (15% effort), 07/2012-06/2013.
19. Nutrition and Obesity Policy Research and Evaluation Network Collaborating Center. **DB Johnson**, Principal Investigator, CDC, $140,000 total costs, role: PI (10% effort), 10/01/12-9/30/14.
20. King County Community Transformation Grant. **DB Johnson**, Co-Principal Investigator, CDC, $242,154 Johnson funding, role: co-PI (15% effort), 10/1/12-1/31/15.
21. Measuring the Impact of School Menu Labeling and Menu Labeling Education Over Time. **DB Johnson**, Principal Investigator, Robert Wood Johnson Foundation, $170,000 total costs, role: PI (10% effort), 12/01/12-5/31/14.
22. Examining the outcomes of collaborative networks to improve school nutrition environments. **DB Johnson**, Principal Investigator, Johns Hopkins – pass through from NIH, $30,000 total costs, role: PI (4% effort), 5/01/13-4/30/15.
23. Child Care Policies and Practices Survey. **DB Johnson**, Principal Investigator, Public Health – Seattle King County, $77,000 total costs, role: PI (5% effort), 5/15/13-12/31/13.

24. Evaluation of Farmers Market Fresh Bucks Program. **DB Johnson**, Principal Investigator, City of Seattle, $45,000 total costs, role: PI (5% effort), 8/15/13-12/31/14.
25. Obesity Prevention. **DB Johnson**, Principal Investigator, CDC and USDA pass through via DOH, $60,000 total costs, role: PI (10% effort), 1/1/14-6/30/14.
26. Partners in Excellence for Leadership in MCH Nutrition. **DB Johnson**, UW Investigator, MCHB/HRSA, $65,295 total costs, role: UW Investigator (5% effort), 7/1/13-6/30/18.
27. Impact of Access to Free and Appealing Water in High Schools on Sugary Beverage Consumption. **DB Johnson**, Principal Investigator, Robert Wood Johnson Foundation, $170,000 total costs, role: PI (10% effort), 12/01/12-5/31/14.
28. Analysis of the policy process to improve comprehensive and coordinated breastfeeding services. **DB Johnson**, Principal Investigator, HRSA/MCH, $399,724 total costs, role: PI (15% effort), 4/1/14-3/30/16
29. Evaluation of a Pediatric Nutrition and Obesity CoIIN. **DB Johnson**, Co-Principal Investigator, HRSA/MCH, $50,000 total costs, role: co-PI, 8/1/14-5/15/15.

Elizabeth Kirk

1. Obesity and inflammation in PARP-1 deficient mice. **EA Kirk**, Principal Investigator, University of Washington Research Royalty Fund, $38,000 total costs, role: PI (8.5% effort), 2/1/2007-1/31/2009.

Mario Kratz

1. Diet-induced metabolic activation as a key initiator of low-grade chronic inflammation. **M Kratz,** Principal Investigator, Fred Hutchinson Cancer Research Center Cancer Center Support Grant (CCSG), role: PI, 2014-2015.
2. Aromatase Inhibitor Therapy: Effects on Adipose Tissue Inflammation. **M Kratz,** Co-Principal Investigator, Fred Hutchinson Cancer Research Center Specialized Program of Research Excellence (SPORE), role: Co-PI, 2013-2014.
3. Dietary Fructose and Low-Grade Inflammation. **M Kratz,** Principal Investigator, NIH R21 HL 108257, National Heart, Lung, and Blood Institute (NHLBI), role: PI, 2011-2014.
4. Dietary Fructose and Intestinal Permeability. **M Kratz,** Principal Investigator, University of Washington Diabetes Research Center (DRC), role: PI, 2011-2014.
5. Adipose tissue inflammation and estrogen synthesis. **M Kratz,** Principal Investigator, NIH R21 CA143248, National Cancer Institute (NCI), role: PI, 2010-2013.
6. Vitamin D and Chronic Low-Grade Adipose Tissue Inflammation. **M Kratz,** Principal Investigator, University of Washington Nutrition Obesity Research Center (NORC) role: PI, 2011-2013.
7. Inflammatory dendritic cells in adipose tissue inflammation and insulin resistance. **M Kratz,** Principal Investigator American Diabetes Association 7-09-CT-36, role: PI, 2009-2013.
8. Fat & Inflammation-Study. **M Kratz,** Principal Investigator, NIH Transdisciplinary Research on Energetics and Cancer (TREC), role: PI, 2008-2009.
9. Effects of fructose and glucose on caloric intake and eating behavior - A pilot study using Functional Magnetic Resonance Imaging. **M Kratz,** Principal Investigator University of Washington Institute of Translational Health Sciences (ITHS) Technology Access Grant for the study, role: PI, 2008-2009.
10. The impact of diet and physical activity on the number and type of macrophages in subcutaneous abdominal adipose tissue. **M Kratz,** Principal Investigator, NIH Transdisciplinary Research on Energetics and Cancer (TREC), role: PI, 2007-2008

Johanna Lampe

1. Human Gut Microflora Profiling for Population Studies. **J Lampe**, Principal Investigator, R03 CA115209, NIH/NCI, $50,000 total costs, role: PI (5% effort), 12/1/05-11/30/07 (no cost extension to 2008).
2. Breast Cancer, Benign Breast Disease, and Isoflavone Metabolism in Chinese Women. **J Lampe**, Principal Investigator, R01 CA120560, NIH/NCI, $50,000 total costs, role: PI (10% effort), 7/1/07-6/30/09 (NCE to

6/30/10).

3. Breast Cancer, Benign Breast Disease, and Isoflavone Metabolism in Chinese Women. **J Lampe**, Principal Investigator, NIH/NCI R01 CA120560, $171,000 total costs, role: PI (10% effort), 7/1/07-6/30/09 (NCE
4. UGT Polymorphisms and Hormonally-Mediated Biomarkers in Premenopausal Women. **J Lampe**, Principal Investigator, NIH/NCI R03 CA121872, $50,000 total costs, role: PI (3% effort), 4/1/07-3/31/09 (NCE to 3/31/10).
5. Equol and Vasomotor Symptoms Study. **J Lampe**, Principal Investigator, Otsuka Pharmaceuticals, $100,179 (subcontract) total costs, role: PI (10% effort), 09/31/09 – 02/28/11.
6. Glutathione Transferases in Humans: Dietary Influences. **J Lampe**, Principal Investigator, NIH/NCI R56 CA070913, $325,253 total costs, role: PI (10% effort), 09/07/09 – 08/31/11.
7. Cruciferous vegetable feeding and inflammation: effect of GST genotypes. **J Lampe**, Principal Investigator, NIH/NCI R01 CA142695, $175,000 total costs, role: PI (10% effort), 07/01/10 – 06/30/12.
8. Nutrition and Physical Activity Assessment. **J Lampe**, Co-Principal Investigator, NIH/NCI R01 CA119171, $451,011 total costs, role: PD/PI (15% effort), 7/01/10 – 6/30/14.
9. Obesity, Body Fat Distribution and Cancer Risk in the Multiethnic Cohort Project 4 "Associations of gut microbiome predictors of body fat amount and distribution with intermediate cancer phenotypes". **J Lampe**, Project Leader, NIH/NCI P01 CA168530-01 (LeMarchand), $359,100 (subaward) total costs, role: Project Leader (10% effort), 07/01/2012 – 6/30/17.
10. Flaxseed effects on hormones and lignans: role of race genetics, and gut microbiome. **J Lampe**, Co-Principal Investigator, NIH/NCI U01 CA161809, $78,817 (subcont) total costs, role: PD/PI (effort 10%), 07/01/12-06/30/17.
11. Gut microbiota and colonic gene expression: A lignan trial in humans. **J Lampe**, Co-Principal Investigator, U01 CA162077 (Lampe/Hullar/Chapkin), NIH/NCI, $440,521 total costs, role: PD/PI – corresponding PI (8% effort), 9/9/11 – 6/30/16.
12. Characterizing Novel Estrogen Biomarkers Implicated in Breast Cancer Initiation. **J Lampe**, Principal Investigator, NIH/NCI R03 CA162173, $50,000 total cost, role: PI (1.5% effort), 1/1/13 – 12/31/14.

Jason Mendoza

1. Evaluation of a Walking School Bus Program: A Cluster Randomized Controlled Trial. **JA Mendoza**, Principal Investigator, NIH-NCI R01CA163146, $2.0 M total costs, role: PI (35% effort), 8/9/2012-5/31/17.
2. The Bicycle Train and Children's Physical Activity: a Pilot Cluster RCT. **JA Mendoza**, Principal Investigator, NIH-NHLBI R21HL113810, $275,000 total cost, role: PI (10% effort), 2/1/13-1/31/15.

Marian Neuhouser

1. Eating Frequency and its Influences on Satiety and Biomarkers of Heath & Disease. **M Neuhouser**, Principal Investigator, R01 DK103674, role: PI, 09/24/14 to 09/23/18.
2. Vitamin D and Prostate Cancer: Biomarkers &Genetic Variation Principal Investigator. **M Neuhouser**, Principal Investigator, R01 CA138639, role: PI, .4/01/10 to 01/31/15.
3. Interaction of Vitamin D & Vitamin A with Lung Cancer Risk in Non-Smoking Females. **M Neuhouser**, Principal Investigator, R03 CA167696, role: PI, 01/01/13 to 12/31/15.
4. Urinary levels of melatonin and risk of breast cancer. **M Neuhouser**, Principal Investigator, R03 CA153078, role: PI, 08/01/10 to 07/31/13.
5. Postprandial glycemic response to 4-week low and high glycemic load diets. **M Neuhouser**, Principal Investigator, R03 CA132158, role: PI, 09/24/07 to 8/31/10.

6. Use of Antioxidant Supplements and DNA Damage. **M Neuhouser**, Principal Investigator, R03 CA105336, role: PI, 8/01/05 to 07/31/07.
7. The Health, Eating, Activity and Lifestyle Study. **M Neuhouser**, Principal Investigator, CA 263-506755, role: PI, 03/08/05 to 03/06/07.

Jennifer Otten

1. What's on the menu? Understanding how Regional Food Hubs can Help Make Childcare Menus more Nutritious. **J Otten**, Principal Investigator, UW Royalty Research Funds, $40,000 total costs, role: PI (8% effort), 2/1/2014-1/31/2015.
2. Impact of Access to Free and Appealing Water in High Schools on Sugary Beverage Consumption. **J Otten**, Co-Principal Investigator, Robert Wood Johnson Foundation, Healthy Eating Research Round 8, $170,000 total costs, role: Co-PI (8% effort), 2/1/2014-7/31/2015.
3. Analysis of the policy process to improve comprehensive and coordinated systems for breastfeeding equity. **J Otten**, Co-Principal Investigator, USDA, HRSA, R40 Maternal and Child Health Research Program, 399,724 total costs, role: Co-PI (1.5% effort), 2014-2016.
4. Evaluation of Washington State Executive Order 13-06: Baseline. **J Otten**, Principal Investigator, Washington State Department of Health, $20,000 total cost, role: PI (0% effort), 2014.
5. CDC Interpersonal Agreement: Evaluation of Washington State Food Service Guidelines. **J Otten**, Principal Investigator, CDC, $59,977 total costs, role: PI, 2014-2015.
6. Food Waste. **J Otten**, Principal Investigator, City of Seattle, $15,000 total cost, role: PI (5% effort), 2015.
7. Evaluation of Washington State Executive Order 13-06: Follow-up. **J Otten**, Principal Investigator, Washington State Department of Health, $56,979 total costs, role: PI (0% effort), 2015.
8. Evaluation of the Seattle Minimum Wage Ordinance. **J Otten**, Co-Principal Investigator, City of Seattle, $250,000 total costs, role: co-PI (5% effort), 2015.

Jisun Paik

1. Effect of murine norovirus on the phenotype of LDL receptor-deficient mice. **J Paik**, Co-Principal Investigator, NIH/MicroMouse, $75,000 total cost, role: Co-PI, 10/1/08 – 9/30/09.

Michael Rosenfeld

1. C. pneumoniae and atherosclerotic plaque destabilization. **ME Rosenfeld**, Principal Investigator, R01 HL66115,$225,000 annual direct costs, role: PI (15% effort), 2/1/07-11/30/11.
2. Pre-doctoral fellowship – Xuemei Geng. **ME Rosenfeld**, Principal Investigator, American Heart Association, $40,000 total cost, role: PI, 1/2007 – 12/30/2008.
3. Post-doctoral fellowship – Andrea Calligari. **ME Rosenfeld**, Principal Investigator, American Heart Association, $60,000 total cost, role: PI, 7/1/08 – 6/30/10.
4. Effects of Dabagatran on Atherosclerosis in Apo E-/- Mice". **ME Rosenfeld**, Principal Investigator, Boehringer-Ingelheim Inc., $45,000 total cost, 3/1/08-7/31/09.
5. Effects of Telmisartan on Vascular Lesions in Rabbits. **ME Rosenfeld**, Principal Investigator, Boehringer-Ingelheim Inc., $185,000 total costs, role: PI, 3/1/08-7/31/09.
6. Project 3: Cardiovascular Consequences of Immune Modification by Traffic-Related Emissions. **ME Rosenfeld**, Project Director, EPA Clean Air Center (S. Vidall), $99,147 total costs, role: Project Director (5% effort), 7/01/10-6/30/15.
7. RANK/RANKL and Vascular Complications in Chronic Kidney Disease. **ME Rosenfeld**, Principal Investigator, $406,726 total cost, role: PI (25% effort), 12/1/11-11/30/16.
8. Post-doctoral fellowship – Will Driscoll. **ME Rosenfeld**, Principal Investigator, American Heart Association, $90,000 total cost, role: PI, 1/1/15 – 12/31/17.

Appendix G: Faculty Publications, 2012–Present

Michelle Averill

Peer-Reviewed Research Articles

1. **Averill MM**, Kim EJ, Goodspeed L, Wang S, Subramanian S, Den Hartigh LJ, Tang C, Ding Y, Reardon CA, Getz GS, Chait A. The apolipoprotein-AI mimetic peptide L4F at a modest dose does not attenuate weight gain, inflammation, or atherosclerosis in LDLR-null mice. PLoS One. 2014 Oct 6;9(10):e109252. PubMed PMID: 25286043; PubMed Central PMCID: PMC4186861.
2. Lee JT, Pamir N, Liu NC, Kirk EA, **Averill MM**, Becker L, Larson I, Hagman DK, Foster-Schubert KE, van Yserloo B, Bornfeldt KE, LeBoeuf RC, Kratz M, Heinecke JW. Macrophage metalloelastase (MMP12) regulates adipose tissue expansion, insulin sensitivity, and expression of inducible nitric oxide synthase. Endocrinology. 2014 Sep;155(9):3409-20. doi: 10.1210/en.2014-1037. Epub 2014 Jun 10. PubMed PMID: 24914938; PubMed Central PMCID: PMC4138576.
3. Wei H, **Averill MM**, McMillen TS, Dastvan F, Mitra P, Subramanian S, Tang C, Chait A, Leboeuf RC. Modulation of adipose tissue lipolysis and body weight by high-density lipoproteins in mice. Nutr Diabetes. 2014 Feb 24;4:e108. doi: 10.1038/nutd.2014.4. PubMed PMID: 24567123; PubMed Central PMCID: PMC3940828.
4. Montes VN, Turner MS, Subramanian S, Ding Y, Hayden-Ledbetter M, Slater S, Goodspeed L, Wang S, Omer M, Den Hartigh LJ, **Averill MM**, O'Brien KD, Ledbetter J, Chait A. T cell activation inhibitors reduce CD8+ T cell and pro-inflammatory macrophage accumulation in adipose tissue of obese mice. PLoS One. 2013 Jul 2;8(7):e67709. doi: 10.1371/journal.pone.0067709. Print 2013. PubMed PMID: 23844072; PubMed Central PMCID: PMC3699637.
5. Umemoto T, Han CY, Mitra P, **Averill MM**, Tang C, Goodspeed L, Omer M, Subramanian S, Wang S, Den Hartigh LJ, Wei H, Kim EJ, Kim J, O'Brien KD, Chait A. Apolipoprotein AI and high-density lipoprotein have anti-inflammatory effects on adipocytes via cholesterol transporters: ATP-binding cassette A-1, ATP-binding cassette G-1, and scavenger receptor B-1. Circ Res. 2013 May 10;112(10):1345-54. doi: 10.1161/CIRCRESAHA.111.300581. Epub 2013 Mar 15. PubMed PMID: 23501697; PubMed Central PMCID: PMC3767575.
6. Kerkhoff C, Voss A, Scholzen TE, **Averill MM**, Zänker KS, Bornfeldt KE. Novel insights into the role of S100A8/A9 in skin biology. Exp Dermatol. 2012 Nov;21(11):822-6. doi: 10.1111/j.1600-0625.2012.01571.x. Epub 2012 Aug 9. Review. PubMed PMID: 22882537; PubMed Central PMCID: PMC3498607.
7. Becker L, Liu NC, **Averill MM**, Yuan W, Pamir N, Peng Y, Irwin AD, Fu X, Bornfeldt KE, Heinecke JW. Unique proteomic signatures distinguish macrophages and dendritic cells. PLoS One. 2012;7(3):e33297. doi: 10.1371/journal.pone.0033297. Epub 2012 Mar 12. PubMed PMID: 22428014; PubMed Central PMCID: PMC3299764.
8. Kanter JE, Kramer F, Barnhart S, **Averill MM**, Vivekanandan-Giri A, Vickery T, Li LO, Becker L, Yuan W, Chait A, Braun KR, Potter-Perigo S, Sanda S, Wight TN, Pennathur S, Serhan CN, Heinecke JW, Coleman RA, Bornfeldt KE. Diabetes promotes an inflammatory macrophage phenotype and atherosclerosis through acyl-CoA synthetase 1. Proc Natl Acad Sci U S A. 2012 Mar 20;109(12):E715-24. doi: 10.1073/pnas.1111600109. Epub 2012 Jan 17. PubMed PMID: 22308341; PubMed Central PMCID: PMC3311324.
9. **Averill MM**, Kerkhoff C, Bornfeldt KE. S100A8 and S100A9 in cardiovascular biology and disease. Arterioscler Thromb Vasc Biol. 2012 Feb;32(2):223-9. doi: 10.1161/ATVBAHA.111.236927. Epub 2011 Nov 17. Review. PubMed PMID: 22095980; PubMed Central PMCID: PMC3262097.

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Peer-Reviewed Research Articles

1. Felix AS, Gaudet MM, La Vecchia C, Nagle CM, Shu XO, Weiderpass E, Adami HO, **Beresford S**, Bernstein L, Chen C, Cook LS, Vivo ID, Doherty JA, Friedenreich CM,Gapstur SM, Hill D, Horn-Ross PL, Lacey JV, Levi F, Liang X, Lu L, Magliocco A, McCann SE, Negri E, Olson SH, Palmer JR, Patel AV, Petruzella S, Prescott J, Risch HA, Rosenberg L, Sherman ME, Spurdle AB, Webb PM, Wise LA, Xiang YB, Xu W, Yang HP, Yu H, Zeleniuch-Jacquotte A, Brinton LA. Intrauterine devices and endometrial cancer risk: A pooled analysis of the Epidemiology of Endometrial Cancer Consortium. Int J Cancer. 2015 Mar 1;136(5):E410-22. doi: 10.1002/ijc.29229. Epub 2014 Sep 30. PubMed PMID: 25242594; PubMed Central PMCID: PMC4267918.
2. Hastert TA, **Beresford SA**, Sheppard L, White E. Disparities in cancer incidence and mortality by area-level socioeconomic status: a multilevel analysis. J Epidemiol Community Health. 2015 Feb;69(2):168-76. doi: 10.1136/jech-2014-204417. Epub 2014 Oct 6. PubMed PMID: 25288143.
3. Barrington WE, **Beresford SA**, Koepsell TD, Duncan GE, Moudon AV. Worksite Neighborhood and Obesogenic Behaviors: Findings Among Employees in the Promoting Activity and Changes in Eating (PACE) Trial. Am J Prev Med. 2015 Jan;48(1):31-41. doi: 10.1016/j.amepre.2014.08.025. Epub 2014 Nov 6. PubMed PMID: 25442234.
4. Bae S, Ulrich CM, Neuhouser ML, Malysheva O, Bailey LB, Xiao L, Brown EC, Cushing-Haugen KL, Zheng Y, Cheng TY, Miller JW, Green R, Lane DS, **Beresford SA**,Caudill MA. Plasma Choline Metabolites and Colorectal Cancer Risk in the Women's Health Initiative Observational Study. Cancer Res. 2014 Dec 15;74(24):7442-52. doi: 10.1158/0008-5472.CAN-14-1835. Epub 2014 Oct 21. PubMed PMID: 25336191; PubMed Central PMCID: PMC4268282.
5. Molina Y, Hohl SD, Ko LK, Rodriguez EA, Thompson B, **Beresford SA**. Understanding the patient-provider communication needs and experiences of Latina and non-Latina White women following an abnormal mammogram. J Cancer Educ. 2014 Dec;29(4):781-9. doi: 10.1007/s13187-014-0654-6. PubMed PMID: 24748097; PubMed Central PMCID: PMC4206667.
6. Cheng TY, Goodman GE, Thornquist MD, Barnett MJ, **Beresford SA**, LaCroix AZ, Zheng Y, Neuhouser ML. Estimated intake of vitamin D and its interaction with vitamin A on lung cancer risk among smokers. Int J Cancer. 2014 Nov 1;135(9):2135-45. doi: 10.1002/ijc.28846. Epub 2014 Mar 24. PubMed PMID: 24622914; PubMed Central PMCID: PMC4293152.
7. Barrington WE, **Beresford SA**, McGregor BA, White E. Perceived stress and eating behaviors by sex, obesity status, and stress vulnerability: findings from the vitamins and lifestyle (VITAL) study. J Acad Nutr Diet. 2014 Nov;114(11):1791-9. doi: 10.1016/j.jand.2014.03.015. Epub 2014 May 12. PubMed PMID: 24828150; PubMed Central PMCID: PMC4229482.
8. Luo J, **Beresford S**, Chen C, Chlebowski R, Garcia L, Kuller L, Regier M, Wactawski-Wende J, Margolis KL. Association between diabetes, diabetes treatment and risk of developing endometrial cancer. Br J Cancer. 2014 Sep 23;111(7):1432-9. doi: 10.1038/bjc.2014.407. Epub 2014 Jul 22. PubMed PMID: 25051408; PubMed Central PMCID: PMC4183842.
9. Zheng C, **Beresford SA**, Van Horn L, Tinker LF, Thomson CA, Neuhouser ML, Di C, Manson JE, Mossavar-Rahmani Y, Seguin R, Manini T, LaCroix AZ, Prentice RL. Simultaneous association of total energy consumption and activity-related energy expenditure with risks of cardiovascular disease, cancer, and diabetes among postmenopausal women. Am J Epidemiol. 2014 Sep 1;180(5):526-35. doi: 10.1093/aje/kwu152. Epub 2014 Jul 12. PubMed PMID: 25016533; PubMed Central PMCID: PMC4143077.
10. Smith MN, Griffith WC, **Beresford SA**, Vredevoogd M, Vigoren EM, Faustman EM. Using a biokinetic model to quantify and optimize cortisol measurements for acute and chronic environmental stress exposure during pregnancy. J Expo Sci Environ Epidemiol. 2014 Sep-Oct;24(5):510-6. doi: 10.1038/jes.2013.86. Epub 2013 Dec 4. PubMed PMID: 24301353.

11. Molina Y, **Beresford SA**, Espinoza N, Thompson B. Psychological distress, social withdrawal, and coping following receipt of an abnormal mammogram among different ethnicities: a mediation model. Oncol Nurs Forum. 2014 Sep;41(5):523-32. doi: 10.1188/14.ONF.523-532. PubMed PMID: 25158657; PubMed Central PMCID: PMC4172284.
12. Tabor HK, Auer PL, Jamal SM, Chong JX, Yu JH, Gordon AS, Graubert TA, O'Donnell CJ, Rich SS, Nickerson DA; **NHLBI Exome Sequencing Project**, Bamshad MJ. Pathogenic variants for Mendelian and complex traits in exomes of 6,517 European and African Americans: implications for the return of incidental results. Am J Hum Genet. 2014 Aug 7;95(2):183-93. doi: 10.1016/j.ajhg.2014.07.006. Epub 2014 Jul 31. PubMed PMID: 25087612; PubMed Central PMCID: PMC4129409.
13. Fretts AM, Howard BV, McKnight B, Duncan GE, **Beresford SA**, Mete M, Zhang Y, Siscovick DS. Life's Simple 7 and incidence of diabetes among American Indians: the Strong Heart Family Study. Diabetes Care. 2014 Aug;37(8):2240-5. doi: 10.2337/dc13-2267. Epub 2014 May 7. PubMed PMID: 24804696; PubMed Central PMCID: PMC4113167.
14. Brenowitz WD, Kukull WA, **Beresford SA**, Monsell SE, Williams EC. Social relationships and risk of incident mild cognitive impairment in U.S. Alzheimer's disease centers. Alzheimer Dis Assoc Disord. 2014 Jul-Sep;28(3):253-60. doi: 10.1097/WAD.0000000000000020. PubMed PMID: 24577205; PubMed Central PMCID: PMC4139444.
15. Coronado GD, Jimenez R, Martinez-Gutierrez J, McLerran D, Ornelas I, Patrick D, Gutierrez R, Bishop S, **Beresford SA**. Multi-level Intervention to increase participation in mammography screening: ¡Fortaleza Latina! study design. Contemp Clin Trials. 2014 Jul;38(2):350-4. doi: 10.1016/j.cct.2014.06.008. Epub 2014 Jun 18. PubMed PMID: 24952281.
16. Hastert TA, **Beresford SA**, Sheppard L, White E. Adherence to the WCRF/AICR cancer prevention recommendations and cancer-specific mortality: results from the Vitamins and Lifestyle (VITAL) Study. Cancer Causes Control. 2014 May;25(5):541-52. doi: 10.1007/s10552-014-0358-6. Epub 2014 Feb 21. PubMed PMID: 24557428; PubMed Central PMCID: PMC4009723.
17. Barrington WE, Stafford M, Hamer M, **Beresford SA**, Koepsell T, Steptoe A. Neighborhood socioeconomic deprivation, perceived neighborhood factors, and cortisol responses to induced stress among healthy adults. Health Place. 2014 May;27:120-6. doi: 10.1016/j.healthplace.2014.02.001. Epub 2014 Mar 4. PubMed PMID: 24603009; PubMed Central PMCID: PMC4212220.
18. Abbenhardt C, Miller JW, Song X, Brown EC, Cheng TY, Wener MH, Zheng Y, Toriola AT, Neuhouser ML, **Beresford SA**, Makar KW, Bailey LB, Maneval DR, Green R, Manson JE, Van Horn L, Ulrich CM. Biomarkers of one-carbon metabolism are associated with biomarkers of inflammation in women. J Nutr. 2014 May;144(5):714-21. doi: 10.3945/jn.113.183970. Epub 2014 Mar 19. PubMed PMID: 24647390; PubMed Central PMCID: PMC3985828.
19. Cheng TY, Millen AE, Wactawski-Wende J, **Beresford SA**, LaCroix AZ, Zheng Y, Goodman GE, Thornquist MD, Neuhouser ML. Vitamin D intake determines vitamin d status of postmenopausal women, particularly those with limited sun exposure. J Nutr. 2014 May;144(5):681-9. doi: 10.3945/jn.113.183541. Epub 2014 Mar 5. PubMed PMID: 24598886; PubMed Central PMCID: PMC3985825.
20. Cash SW, **Beresford SA**, Vaughan TL, Heagerty PJ, Bernstein L, White E, Neuhouser ML. Recent physical activity in relation to DNA damage and repair using the comet assay. J Phys Act Health. 2014 May;11(4):770-6. doi: 10.1123/jpah.2012-0278. PubMed PMID: 25078521.
21. Cash SW, **Beresford S AA**, Vaughan TL, Heagerty PJ, Bernstein L, White E, Neuhouser ML. Recent physical activity in relation to DNA damage and repair using the comet assay. J Phys Act Health. 2014 May;11(4):770-6. doi: 10.1123/jpah.2012-0278. Epub 2013 Apr 5. PubMed PMID: 23574930; PubMed Central PMCID: PMC3844056.
22. Gordon AS, Tabor HK, Johnson AD, Snively BM, Assimes TL, Auer PL, Ioannidis JP, Peters U, Robinson JG, Sucheston LE, Wang D, Sotoodehnia N, Rotter JI, PsatyBM, Jackson RD, Herrington DM, O'Donnell CJ,

Reiner AP, Rich SS, Rieder MJ, Bamshad MJ, Nickerson DA; **NHLBI GO Exome Sequencing Project**. Quantifying rare, deleterious variation in 12 human cytochrome P450 drug-metabolism genes in a large-scale exome dataset. Hum Mol Genet. 2014 Apr 15;23(8):1957-63. doi: 10.1093/hmg/ddt588. Epub 2013 Nov 26. PubMed PMID: 24282029; PubMed Central PMCID: PMC3959810.

23. George SM, Ballard-Barbash R, Shikany JM, Caan BJ, Freudenheim JL, Kroenke CH, Vitolins MZ, **Beresford SA**, Neuhouser ML. Better postdiagnosis diet quality is associated with reduced risk of death among postmenopausal women with invasive breast cancer in the women's health initiative. Cancer Epidemiol Biomarkers Prev. 2014 Apr;23(4):575-83. doi: 10.1158/1055-9965.EPI-13-1162. Epub 2014 Feb 3. PubMed PMID: 24493629; PubMed Central PMCID: PMC4091724.
24. Tamers SL, Thompson B, Cheadle AD, Zheng Y, Bishop SK, **Beresford SA**. Promoting Changes in Obesogenic Behaviors: Does Coworker Social Support Play a Role? Am J Health Promot. 2014 Mar 26. [Epub ahead of print] PubMed PMID: 24670072.
25. Zhao S, Chlebowski RT, Anderson GL, Kuller LH, Manson JE, Gass M, Patterson R, Rohan TE, Lane DS, **Beresford SA**, Lavasani S, Rossouw JE, Prentice RL. Sex hormone associations with breast cancer risk and the mediation of randomized trial postmenopausal hormone therapy effects. Breast Cancer Res. 2014 Mar 26;16(2):R30. doi: 10.1186/bcr3632. PubMed PMID: 24670297; PubMed Central PMCID: PMC4053241.
26. Bae S, Ulrich CM, Bailey LB, Malysheva O, Brown EC, Maneval DR, Neuhouser ML, Cheng TY, Miller JW, Zheng Y, Xiao L, Hou L, Song X, Buck K, **Beresford SA**, Caudill MA. Impact of folic acid fortification on global DNA methylation and one-carbon biomarkers in the Women's Health Initiative Observational Study cohort. Epigenetics. 2014 Mar;9(3):396-403. doi: 10.4161/epi.27323. Epub 2013 Dec 3. PubMed PMID: 24300587; PubMed Central PMCID: PMC4053458.
27. Lombard KA, **Beresford SA**, Ornelas IJ, Topaha C, Becenti T, Thomas D, Vela JG. Healthy gardens/healthy lives: Navajo perceptions of growing food locally to prevent diabetes and cancer. Health Promot Pract. 2014 Mar;15(2):223-31. doi: 10.1177/1524839913492328. Epub 2013 Jul 12. PubMed PMID: 23855020; PubMed Central PMCID: PMC3888830.
28. Lange LA, Hu Y, Zhang H, Xue C, Schmidt EM, Tang ZZ, Bizon C, Lange EM, Smith JD, Turner EH, Jun G, Kang HM, Peloso G, Auer P, Li KP, Flannick J, Zhang J, Fuchsberger C, Gaulton K, Lindgren C, Locke A, Manning A, Sim X, Rivas MA, Holmen OL, Gottesman O, Lu Y, Ruderfer D, Stahl EA, Duan Q, Li Y, Durda P, Jiao S, Isaacs A, Hofman A, Bis JC, Correa A, Griswold ME, Jakobsdottir J, Smith AV, Schreiner PJ, Feitosa MF, Zhang Q, Huffman JE, Crosby J, Wassel CL, Do R, Franceschini N, Martin LW, Robinson JG, Assimes TL, Crosslin DR, Rosenthal EA, Tsai M, Rieder MJ, Farlow DN, Folsom AR, Lumley T, Fox ER, Carlson CS, Peters U,Jackson RD, van Duijn CM, Uitterlinden AG, Levy D, Rotter JI, Taylor HA, Gudnason V Jr, Siscovick DS, Fornage M, Borecki IB, Hayward C, Rudan I, Chen YE, Bottinger EP, Loos RJ, Sætrom P, Hveem K, Boehnke M, Groop L, McCarthy M, Meitinger T, Ballantyne CM, Gabriel SB, O'Donnell CJ, Post WS, North KE, Reiner AP, Boerwinkle E, Psaty BM, Altshuler D, Kathiresan S, Lin DY, Jarvik GP, Cupples LA, Kooperberg C, Wilson JG, Nickerson DA, Abecasis GR, Rich SS, Tracy RP, Willer CJ; **NHLBI Grand Opportunity Exome Sequencing Project**. Whole-exome sequencing identifies rare and low-frequency coding variants associated with LDL cholesterol. Am J Hum Genet. 2014 Feb 6;94(2):233-45. doi: 10.1016/j.ajhg.2014.01.010. PubMed PMID: 24507775; PubMed Central PMCID: PMC3928660.
29. Ko CW, Napolitano PG, Lee SP, Schulte SD, Ciol MA, **Beresford SA**. Physical activity, maternal metabolic measures, and the incidence of gallbladder sludge or stones during pregnancy: a randomized trial. Am J Perinatol. 2014 Jan;31(1):39-48. doi: 10.1055/s-0033-1334455. Epub 2013 Mar 1. PubMed PMID: 23456902.
30. Harris JR, Hannon PA, **Beresford SA**, Linnan LA, McLellan DL. Health promotion in smaller workplaces in the United States. Annu Rev Public Health. 2014;35:327-42. doi: 10.1146/annurev-publhealth-032013-182416. Epub 2014 Jan 2. Review. PubMed PMID: 24387086.

31. Rosenthal EA, Ranchalis J, Crosslin DR, Burt A, Brunzell JD, Motulsky AG, Nickerson DA; **NHLBI GO Exome Sequencing Project**, Wijsman EM, Jarvik GP. Joint linkage and association analysis with exome sequence data implicates SLC25A40 in hypertriglyceridemia. Am J Hum Genet. 2013 Dec 5;93(6):1035-45. doi: 10.1016/j.ajhg.2013.10.019. Epub 2013 Nov 21. PubMed PMID: 24268658; PubMed Central PMCID: PMC3852929.
32. Cash SW, Duncan GE, **Beresford SA**, McTiernan A, Patrick DL. Increases in physical activity may affect quality of life differently in men and women: the PACE project. Qual Life Res. 2013 Nov;22(9):2381-8. doi: 10.1007/s11136-013-0389-6. Epub 2013 Mar 16. PubMed PMID: 23504523; PubMed Central PMCID: PMC3760977.
33. Manson JE, Chlebowski RT, Stefanick ML, Aragaki AK, Rossouw JE, Prentice RL, Anderson G, Howard BV, Thomson CA, LaCroix AZ, Wactawski-Wende J, Jackson RD, Limacher M, Margolis KL, Wassertheil-Smoller S, **Beresford SA**, Cauley JA, Eaton CB, Gass M, Hsia J, Johnson KC, Kooperberg C, Kuller LH, Lewis CE, Liu S, Martin LW, Ockene JK, O'Sullivan MJ, Powell LH, Simon MS, Van Horn L, Vitolins MZ, Wallace RB. Menopausal hormone therapy and health outcomes during the intervention and extended poststopping phases of the Women's Health Initiative randomized trials. JAMA. 2013 Oct 2;310(13):1353-68. doi: 10.1001/jama.2013.278040. PubMed PMID: 24084921; PubMed Central PMCID: PMC3963523.
34. Cheng TY, Lacroix AZ, **Beresford SA**, Goodman GE, Thornquist MD, Zheng Y, Chlebowski RT, Ho GY, Neuhouser ML. Vitamin D intake and lung cancer risk in theWomen's Health Initiative. Am J Clin Nutr. 2013 Oct;98(4):1002-11. doi: 10.3945/ajcn.112.055905. Epub 2013 Aug 21. PubMed PMID: 23966428; PubMed Central PMCID: PMC3778856.
35. Hastert TA, **Beresford SA**, Patterson RE, Kristal AR, White E. Adherence to WCRF/AICR cancer prevention recommendations and risk of postmenopausal breast cancer. Cancer Epidemiol Biomarkers Prev. 2013 Sep;22(9):1498-508. doi: 10.1158/1055-9965.EPI-13-0210. Epub 2013 Jun 18. PubMed PMID: 23780838; PubMed Central PMCID: PMC3774119.
36. Espeland MA, Shumaker SA, Leng I, Manson JE, Brown CM, LeBlanc ES, Vaughan L, Robinson J, Rapp SR, Goveas JS, Wactawski-Wende J, Stefanick ML, Li W, Resnick SM; **WHIMSY Study Group**. Long-term effects on cognitive function of postmenopausal hormone therapy prescribed to women aged 50 to 55 years. JAMA Intern Med. 2013 Aug 12;173(15):1429-36. PubMed PMID: 23797469; PubMed Central PMCID: PMC3844547.
37. Guo DC, Regalado E, Casteel DE, Santos-Cortez RL, Gong L, Kim JJ, Dyack S, Horne SG, Chang G, Jondeau G, Boileau C, Coselli JS, Li Z, Leal SM, Shendure J, Rieder MJ, Bamshad MJ, Nickerson DA; GenTAC Registry Consortium; **National Heart, Lung, and Blood Institute Grand Opportunity Exome Sequencing Project**, Kim C, Milewicz DM. Recurrent gain-of-function mutation in PRKG1 causes thoracic aortic aneurysms and acute aortic dissections. Am J Hum Genet. 2013 Aug 8;93(2):398-404. doi: 10.1016/j.ajhg.2013.06.019. Epub 2013 Aug 1. PubMed PMID: 23910461; PubMed Central PMCID: PMC3738837.
38. Sims ST, Kubo J, Desai M, Bea J, Beasley JM, Manson JE, Allison M, Seguin RA, Chen Z, Michael YL, Sullivan SD, **Beresford S**, Stefanick ML. Changes in physical activity and body composition in postmenopausal women over time. Med Sci Sports Exerc. 2013 Aug;45(8):1486-92. doi: 10.1249/MSS.0b013e31828af8bd. PubMed PMID: 23439422; PubMed Central PMCID: PMC3715578.
39. Curl CL, **Beresford SA**, Hajat A, Kaufman JD, Moore K, Nettleton JA, Diez-Roux AV. Associations of organic produce consumption with socioeconomic status and the local food environment: Multi-Ethnic Study of Atherosclerosis (MESA). PLoS One. 2013 Jul 31;8(7):e69778. doi: 10.1371/journal.pone.0069778. Print 2013. PubMed PMID: 23936098; PubMed Central PMCID: PMC3729963.
40. Johnsen JM, Auer PL, Morrison AC, Jiao S, Wei P, Haessler J, Fox K, McGee SR, Smith JD, Carlson CS, Smith N, Boerwinkle E, Kooperberg C, Nickerson DA, Rich SS, Green D, Peters U, Cushman M, Reiner AP; **NHLBI Exome Sequencing Project**. Common and rare von Willebrand factor (VWF) coding variants, VWF levels, and factor VIII levels in African Americans: the NHLBI Exome Sequencing Project. Blood. 2013 Jul

25;122(4):590-7. doi: 10.1182/blood-2013-02-485094. Epub 2013 May 20. PubMed PMID: 23690449; PubMed Central PMCID: PMC3724194.
41. O'Connor TD, Kiezun A, Bamshad M, Rich SS, Smith JD, Turner E; **NHLBIGO Exome Sequencing Project**; ESP Population Genetics, Statistical Analysis Working Group, Leal SM, Akey JM. Fine-scale patterns of population stratification confound rare variant association tests. PLoS One. 2013 Jul 4;8(7):e65834. doi: 10.1371/journal.pone.0065834. Print 2013. PubMed PMID: 23861739; PubMed Central PMCID: PMC3701690.
42. Nguyen HQ, Herting JR, Kohen R, Perry CK, LaCroix A, Adams-Campbell LL, **Beresford SA**, Eaton CB, Tinker L. Recreational physical activity in postmenopausal women is stable over 8 years of follow-up. J Phys Act Health. 2013 Jul;10(5):656-68. Epub 2012 Sep 18. PubMed PMID: 23006606.
43. Vaughan L, Espeland MA, Snively B, Shumaker SA, Rapp SR, Shupe J, Robinson JG, Sarto GE, Resnick SM; **Women's Health Initiative Memory Study of Younger Women (WHIMS-Y) Study Group**. The rationale, design, and baseline characteristics of the Women's Health Initiative Memory Study of Younger Women (WHIMS-Y). Brain Res. 2013 Jun 13;1514:3-11. doi: 10.1016/j.brainres.2013.03.047. Epub 2013 Apr 8. PubMed PMID: 23578696; PubMed Central PMCID: PMC3684042.
44. Toriola AT, Cheng TY, Neuhouser ML, Wener MH, Zheng Y, Brown E, Miller JW, Song X, **Beresford SA**, Gunter MJ, Caudill MA, Ulrich CM. Biomarkers of inflammation are associated with colorectal cancer risk in women but are not suitable as early detection markers. Int J Cancer. 2013 Jun 1;132(11):2648-58. doi: 10.1002/ijc.27942. Epub 2012 Dec 5. PubMed PMID: 23161620; PubMed Central PMCID: PMC3609926.
45. Perry CK, Herting JR, Berke EM, Nguyen HQ, Vernez Moudon A, **Beresford SA**, Ockene JK, Manson JE, Lacroix AZ. Does neighborhood walkability moderate the effects of intrapersonal characteristics on amount of walking in post-menopausal women? Health Place. 2013 May;21:39-45. doi: 10.1016/j.healthplace.2012.12.007. Epub 2013 Jan 23. PubMed PMID: 23416232; PubMed Central PMCID: PMC3622785.
46. Miller JW, **Beresford SA**, Neuhouser ML, Cheng TY, Song X, Brown EC, Zheng Y, Rodriguez B, Green R, Ulrich CM. Homocysteine, cysteine, and risk of incident colorectal cancer in the Women's Health Initiative observational cohort. Am J Clin Nutr. 2013 Apr;97(4):827-34. doi: 10.3945/ajcn.112.049932. Epub 2013 Feb 20. PubMed PMID: 23426034; PubMed Central PMCID: PMC3607656.
47. Norton N, Li D, Rampersaud E, Morales A, Martin ER, Zuchner S, Guo S, Gonzalez M, Hedges DJ, Robertson PD, Krumm N, Nickerson DA, Hershberger RE; **National Heart, Lung, and Blood Institute GO Exome Sequencing Project** and the Exome Sequencing Project Family Studies Project Team. Exome sequencing and genome-wide linkage analysis in 17 families illustrate the complex contribution of TTN truncating variants to dilated cardiomyopathy. Circ Cardiovasc Genet. 2013 Apr;6(2):144-53. doi: 10.1161/CIRCGENETICS.111.000062. Epub 2013 Feb 15. PubMed PMID: 23418287; PubMed Central PMCID: PMC3815606.
48. Anderson CA, **Beresford SA**, McLerran D, Lampe JW, Deeb S, Feng Z, Motulsky AG. Response of serum and red blood cell folate concentrations to folic acid supplementation depends on methylenetetrahydrofolate reductase C677T genotype: results from a crossover trial. Mol Nutr Food Res. 2013 Apr;57(4):637-44. doi: 10.1002/mnfr.201200108. Epub 2013 Mar 4. PubMed PMID: 23456769; PubMed Central PMCID: PMC4132693.
49. Zschäbitz S, Cheng TY, Neuhouser ML, Zheng Y, Ray RM, Miller JW, Song X, Maneval DR, **Beresford SA**, Lane D, Shikany JM, Ulrich CM. B vitamin intakes and incidence of colorectal cancer: results from the Women's Health Initiative Observational Study cohort. Am J Clin Nutr. 2013 Feb;97(2):332-43. doi: 10.3945/ajcn.112.034736. Epub 2012 Dec 19. PubMed PMID: 23255571; PubMed Central PMCID: PMC3545682.
50. Cash SW, Ma H, Horn-Ross PL, Reynolds P, Canchola AJ, Sullivan-Halley J, **Beresford SA**, Neuhouser ML, Vaughan TL, Heagerty PJ, Bernstein L. Recreational physical activity and risk of papillary thyroid cancer

among women in the California Teachers Study. Cancer Epidemiol. 2013 Feb;37(1):46-53. doi: 10.1016/j.canep.2012.09.003. Epub 2012 Oct 30. PubMed PMID: 23116823; PubMed Central PMCID: PMC3543486.

51. Fu W, O'Connor TD, Jun G, Kang HM, Abecasis G, Leal SM, Gabriel S, Rieder MJ, Altshuler D, Shendure J, Nickerson DA, Bamshad MJ; **NHLBI Exome Sequencing Project**, Akey JM. Analysis of 6,515 exomes reveals the recent origin of most human protein-coding variants. Nature. 2013 Jan 10;493(7431):216-20. doi: 10.1038/nature11690. Epub 2012 Nov 28. Erratum in: Nature. 2013 Mar 14;495(7440):270. Rieder, Mark J [added]. PubMed PMID: 23201682; PubMed Central PMCID: PMC3676746.
52. Guo Y, Lanktree MB, Taylor KC, Hakonarson H, Lange LA, Keating BJ; **IBC 50K SNP array BMI Consortium**. Gene-centric meta-analyses of 108 912 individuals confirm known body mass index loci and reveal three novel signals. Hum Mol Genet. 2013 Jan 1;22(1):184-201. doi: 10.1093/hmg/dds396. Epub 2012 Sep 21. PubMed PMID: 23001569; PubMed Central PMCID: PMC3522401.
53. Cash SW, **Beresford SA**, Henderson JA, McTiernan A, Xiao L, Wang CY, Patrick DL. Dietary and physical activity behaviours related to obesity-specific quality of life and work productivity: baseline results from a worksite trial. Br J Nutr. 2012 Sep 28;108(6):1134-42. doi: 10.1017/S0007114511006258. Epub 2011 Dec 6. PubMed PMID: 22142517; PubMed Central PMCID: PMC3359391.
54. Kong A, **Beresford SA**, Alfano CM, Foster-Schubert KE, Neuhouser ML, Johnson DB, Duggan C, Wang CY, Xiao L, Jeffery RW, Bain CE, McTiernan A. Self-monitoring and eating-related behaviors are associated with 12-month weight loss in postmenopausal overweight-to-obese women. J Acad Nutr Diet. 2012 Sep;112(9):1428-35. doi: 10.1016/j.jand.2012.05.014. Epub 2012 Jul 13. PubMed PMID: 22795495; PubMed Central PMCID: PMC3432675.
55. Fretts AM, Howard BV, McKnight B, Duncan GE, **Beresford SA**, Calhoun D, Kriska AM, Storti KL, Siscovick DS. Modest levels of physical activity are associated with a lower incidence of diabetes in a population with a high rate of obesity: the strong heart family study. Diabetes Care. 2012 Aug;35(8):1743-5. doi: 10.2337/dc11-2321. Epub 2012 Jun 20. PubMed PMID: 22723343; PubMed Central PMCID: PMC3402272.
56. Boileau C, Guo DC, Hanna N, Regalado ES, Detaint D, Gong L, Varret M, Prakash SK, Li AH, d'Indy H, Braverman AC, Grandchamp B, Kwartler CS, Gouya L, Santos-Cortez RL, Abifadel M, Leal SM, Muti C, Shendure J, Gross MS, Rieder MJ, Vahanian A, Nickerson DA, Michel JB; **National Heart, Lung, and Blood Institute (NHLBI) Go Exome Sequencing Project**, Jondeau G, Milewicz DM. TGFB2 mutations cause familial thoracic aortic aneurysms and dissections associated with mild systemic features of Marfan syndrome. Nat Genet. 2012 Jul 8;44(8):916-21. doi: 10.1038/ng.2348. PubMed PMID: 22772371; PubMed Central PMCID: PMC4033668.
57. Emond MJ, Louie T, Emerson J, Zhao W, Mathias RA, Knowles MR, Wright FA, Rieder MJ, Tabor HK, Nickerson DA, Barnes KC; **National Heart, Lung, and Blood Institute (NHLBI) GO Exome Sequencing Project**; Lung GO, Gibson RL, Bamshad MJ. Exome sequencing of extreme phenotypes identifies DCTN4 as a modifier of chronic Pseudomonas aeruginosa infection in cystic fibrosis. Nat Genet. 2012 Jul 8;44(8):886-9. doi: 10.1038/ng.2344. PubMed PMID: 22772370; PubMed Central PMCID: PMC3702264.
58. Kong A, **Beresford SA**, Imayama I, Duggan C, Alfano CM, Foster-Schubert KE, Neuhouser ML, Johnson DB, Wang CY, Xiao L, Bain CE, McTiernan A. Adoption of diet-related self-monitoring behaviors varies by race/ethnicity, education, and baseline binge eating score among overweight-to-obese postmenopausal women in a 12-month dietary weight loss intervention. Nutr Res. 2012 Apr;32(4):260-5. doi: 10.1016/j.nutres.2012.03.001. Epub 2012 Apr 30. PubMed PMID: 22575038; PubMed Central PMCID: PMC3350640.
59. Fretts AM, Howard BV, McKnight B, Duncan GE, **Beresford SA**, Mete M, Eilat-Adar S, Zhang Y, Siscovick DS. Associations of processed meat and unprocessed red meat intake with incident diabetes: the Strong Heart Family Study. Am J Clin Nutr. 2012 Mar;95(3):752-8. doi: 10.3945/ajcn.111.029942. Epub 2012 Jan 25. PubMed PMID: 22277554; PubMed Central PMCID: PMC3278249.

60. Margolis KL, Martin LW, Ray RM, Kerby TJ, Allison MA, Curb JD, Kotchen TA, Liu S, Wassertheil-Smoller S, Manson JE; **Women's Health Initiative Investigators**. A prospective study of serum 25-hydroxyvitamin D levels, blood pressure, and incident hypertension in postmenopausal women. Am J Epidemiol. 2012 Jan 1;175(1):22-32. doi: 10.1093/aje/kwr274. Epub 2011 Nov 29. PubMed PMID: 22127681; PubMed Central PMCID: PMC3291161.

Adam Drewnowski

Peer-Reviewed Research Articles

1. **Drewnowski A**, Hill J, Wansink B, Murray R, Diekman C. Achieve better health with nutrient rich foods. Nutrition Today 2012;47(1): 23–29.
2. Maillot M, **Drewnowski A**. A conflict between nutritionally adequate diets and meeting the 2010 dietary guidelines for sodium. Am J Prev Med 2012;42(2):174-9.
3. Jiao J, Vernez Moudon A, **Drewnowski A**. Influence of individual characteristics and the built environment on grocery shopping travel frequency. Journal of the Transportation Research Board, 2012
4. Jiao J, Vernez Moudon A, Hurvitz P, **Drewnowski A**. How to identify food deserts: Measuring physical and economic access to supermarkets in King County, WA. Am J Public Health2012;102(10):e32-9.
5. Maillot M, Monsivais P, **Drewnowski A**. Food pattern modeling shows that the 2010 Dietary Guidelines for sodium and potassium cannot be met simultaneously. Nutr Res 2013;33(3):188-94.
6. Aaron GJ, Keim NL, **Drewnowski A**, Townsend MS. Estimating dietary costs of low-income women in California: a comparison of 2 approaches. Am J Clin Nutr 2013;97(4):835-41.
7. Aggarwal A, Monsivais P, **Drewnowski A**. Nutrient intakes linked to better health outcomes are associated with higher diet costs in the US. PLoS One 2012;7(5):e37533.
8. **Drewnowski A**, Mennella JA, Johnson SL, Bellisle F. Sweetness and food preference. J Nutr 2012; 142(6):1142S-8S.
9. Bellisle F, **Drewnowski A**, Anderson GH, Westerterp-Plantenga M, Martin CK. Sweetness, satiation, and satiety. J Nutr. 2012 Jun;142(6):1149S-54S.
10. Rehm CD, Moudon AV, Hurvitz PM, **Drewnowski A**. Residential property values are associated with obesity among women in King County, WA, USA. Soc Sci Med 2012;75(3):491-5.
11. **Drewnowski A**, Aggarwal A, Hurvitz PM, Monsivais P, Moudon AV. Obesity and supermarket access: proximity or price? Am J Public Health 2012; 102(8):e74-80.
12. **Drewnowski A**, Maillot M, Rehm C. Reducing the sodium-potassium ratio in the US diet: a challenge for public health. Am J Clin Nutr 2012;96(2):439-44.
13. Carter BE, **Drewnowski A**. Beverages containing soluble fiber, caffeine, and green tea catechins suppress hunger and lead to less energy consumption at the next meal. Appetite 2012;59(3):755-61.
14. DeSimone JA, Beauchamp GK, **Drewnowski A**, Johnson GH. Sodium in the food supply: challenges and opportunities. Nutr Rev 2013;71(1):52-9.
15. Vernez Moudon A, **Drewnowski A**, Duncan GE, Hurvitz PM, Saelens BE, Scharnhorst E. Characterizing the food environment: pitfalls and future directions. Public Health Nutr. 2013;10:1-6.
16. **Drewnowski A**, Rehm CD. Energy intakes of US children and adults by food purchase location and by specific food source. Nutr J. 2013;8(12):59.
17. **Drewnowski A**, Rehm CD. Sodium intakes of US children and adults from foods and beverages by location of origin and by specific food source. Nutrients. 2013 May 28;5(6):1840-55. doi: 10.3390/nu5061840.
18. **Drewnowski A**, Moudon AV, Jiao J, Aggarwal A, Charreire H, Chaix B. Food environment and socioeconomic status influence obesity rates in Seattle and in Paris. Int J Obes (Lond). 2013 May 27. doi: 10.1038/ijo.2013.97.

19. **Drewnowski A**, Rehm CD. Vegetable cost metrics show that potatoes and beans provide most nutrients per penny. PLoS One. 2013;8(5):e63277.
20. **Drewnowski A**, Rehm CD, Constant F. Water and beverage consumption among children age 4-13y in the United States: analyses of 2005--2010 NHANES data. Nutr J. 2013;12(1):85.
21. Almiron-Roig E, Palla L, Guest K, Ricchiuti C, Vint N, Jebb SA, **Drewnowski A**. Factors that determine energy compensation: a systematic review of preload studies. Nutr Rev. 2013 Jul;71(7):458-73.
22. Aggarwal A, Monsivais P, Cook AJ, **Drewnowski A**. Positive Attitude toward Healthy Eating Predicts Higher Diet Quality at All Cost Levels of Supermarkets. J Acad Nutr Diet. 2013 Aug 2. pii: S2212-2672(13)00684-9. doi: 10.1016/j.jand.2013.06.006.
23. Monsivais P, Rehm CD, **Drewnowski A**. The DASH Diet and Diet Costs Among Ethnic and Racial Groups in the United States. JAMA Intern Med. 2013 Sep 2. doi: 10.1001/jamainternmed.2013.9479.
24. **Drewnowski A**. New metrics of affordable nutrition: which vegetables provide most nutrients for least cost? J Acad Nutr Diet. 2013 Sep;113(9):1182-7.
25. **Drewnowski A**, Rehm CD, Arterburn D. The geographic distribution of obesity by census tract among 59,767 insured adults in King County, WA. Int J Obes (Lond). 2013 Sep 16.
26. Monsivais P, Perrigue MM, Adams SL, **Drewnowski A**. Measuring diet cost at the individual level: a comparison of three methods. Eur J Clin Nutr. 2013 Sep 18.
27. **Drewnowski A**, Rehm CD, Constant F. Water and beverage consumption among adults in the United States: cross-sectional study using data from NHANES 2005-2010. BMC Public Health. 2013 Nov 12;13:1068.
28. Aggarwal A, Cook AJ, Jiao J, Seguin RA, Vernez Moudon A, Hurvitz PM, **Drewnowski A**. Access to Supermarkets and Fruit and Vegetable Consumption. Am J Public Health. 2014 May;104(5):917-23.
29. Brosnan JT, **Drewnowski A**, Friedman MI. Is there a relationship between dietary MSG obesity in animals or humans? Amino Acids. 2014 Jun 14. [Epub ahead of print]
30. **Drewnowski A**, Rehm CD. Consumption of added sugars among US children and adults by food purchase location and food source. Am J Clin Nutr. 2014 Jul 16. pii: ajcn.089458. [Epub ahead of print]
31. **Drewnowski A**, Aggarwal A, Rehm CD, Cohen-Cline H, Hurvitz PM, Moudon AV. Environments Perceived as Obesogenic Have Lower Residential Property Values. Am J Prev Med. 2014 Jul 18. pii: S0749-3797(14)00198-6.
32. **Drewnowski A**, Rehm CD, Moudon AV, Arterburn D. The geography of diabetes by census tract in a large sample of insured adults in King County, Washington, 2005-2006. Prev Chronic Dis. 2014 Jul 24;11:E125.
33. Rehm CD, **Drewnowski A**. A New Method to Monitor the Contribution of Fast Food Restaurants to the Diets of US Children. PLoS One. 2014 Jul 25;9(7):e103543.
34. Nicklas TA, **Drewnowski A**, O'Neil CE. The nutrient density approach to healthy eating: challenges and opportunities. Public Health Nutr. 2014 Dec;17(12):2626-36. doi: 10.1017/S136898001400158X. Epub 2014 Aug 28. PubMed PMID: 25166614.
35. **Drewnowski A**, Rehm CD. Obesity prevention: Gore-Tex or sunscreen? Am J Public Health. 2014 Nov;104(11):e1-2. doi: 10.2105/AJPH.2014.302179. Epub 2014 Sep 11. PubMed PMID: 25211752.
36. Monsivais P, Aggarwal A, **Drewnowski A**. Time spent on home food preparation and indicators of healthy eating. Am J Prev Med. 2014 Dec;47(6):796-802. doi:10.1016/j.amepre.2014.07.033. Epub 2014 Sep 19. PubMed PMID: 25245799; PubMed Central PMCID: PMC4254327.
37. Huang R, Moudon AV, Cook AJ, **Drewnowski A**. The spatial clustering of obesity: does the built environment matter? J Hum Nutr Diet. 2014 Oct 3. doi:10.1111/jhn.12279. [Epub ahead of print] PubMed PMID: 25280252.229.
38. **Drewnowski A**, Rehm CD. Consumption of low-calorie sweeteners among U.S. adults is associated with higher Healthy Eating Index (HEI 2005) scores and more physical activity. Nutrients. 2014 Oct

17;6(10):4389-403. doi: 10.3390/nu6104389. PubMed PMID: 25329967; PubMed Central PMCID: PMC4210924.
39. **Drewnowski A**. Global food policy and sustainability. World Rev Nutr Diet. 2015;111:174-8. doi: 10.1159/000362321. Epub 2014 Nov 17. PubMed PMID: 25418409.
40. **Drewnowski A**, Rehm CD, Martin A, Verger EO, Voinnesson M, Imbert P. Energy and nutrient density of foods in relation to their carbon footprint. Am J Clin Nutr. 2015 Jan;101(1):184-91. doi: 10.3945/ajcn.114.092486. Epub 2014 Nov 5. PubMed PMID: 25527762.
41. Rehm CD, **Drewnowski A**, Monsivais P. Potential Population-Level Nutritional Impact of Replacing Whole and Reduced-Fat Milk With Low-Fat and Skim Milk Among US Children Aged 2-19 Years. J Nutr Educ Behav. 2015 Jan-Feb;47(1):61-68.e1. PubMed PMID: 25528079.

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Peer-Reviewed Research Articles

1. Intille SS, Lester J, Sallis JF, **Duncan G**. New horizons in sensor development. Med Sci Sports Exerc 2012; 44(No. 1S):S24-S31. PubMed Central PMCID: PMC3245518.
2. †Morse GS, **Duncan G**, Noonan C, Garroutte E, Santiago-Rivera A, Carpenter DO, Tarbell A. Environmental toxins and depression in an American Indian Community. J Indigenous Research 2012; 1:6.
3. Muus KJ, Baker-Demaray TB, Bogart TA, **Duncan GE**, Jacobsen C, Buchwald DS, Henderson JA. Physical activity and cervical cancer testing among American Indian women. J Rural Health 2012; 28:320-326.
4. **Duncan GE**, Dansie EJ, Strachan E, Munsell M, Huang R, Vernez Moudon A, Goldberg J, Buchwald D. Genetic and environmental influences on residential location in the U.S. Health & Place 2012; 18:515-519. PubMed Central PMCID: PMC3319489.
5. *Fretts AM, Howard BV, McKnight B, **Duncan GE**, Beresford SA, Mete M, Eilat-Adar S, Zhang Y, Siscovick DS. Associations of processed meat and unprocessed red meat intake with incident diabetes: the Strong Heart Family Study. Am J Clin Nutr 2012; 95:752-758. PubMed Central PMCID: PMC3278249.
6. *Fretts AM, Howard BV, McKnight B, **Duncan GE**, Beresford SAA, Calhoun D, Kriska AM, Storti KL, Siscovick DS. Modest levels of physical activity are associated with a lower incidence of diabetes in a population with a high rate of obesity: the Strong Heart Family Study. Diabetes Care 2012; 35:1743-1745. PubMed Central PMCID: PMC3402272.
7. Strachan E, Hunt C, Afari N, **Duncan G**, Noonan C, Schur E, Watson N, Goldberg J, Buchwald D. University of Washington Twin Registry: Poised for the next generation of twin research. Twin Res Hum Genet 2013; 16:455-462.
8. *Robinson-Cohen C, Littman AJ, **Duncan GE**, Roshanravan B, Ikizler TA, Himmelfarb J, Kestenbaum BR. Assessment of physical activity in chronic kidney disease. J Renal Nutr 2013; 23:123-131. PubMed Central PMCID: PMC3496802.
9. **Duncan GE**, Lester J, Migotsky S, Higgins L, Borriello G. Measuring slope to improve energy expenditure estimates during field-based activities. Appl Physiol Nutr Metab 2013; 38:352-356. PubMed Central PMCID: PMC3753037.
10. Moudon AV, Drewnowski A, **Duncan GE**, Hurvitz PM, Saelens BE, Scharnhorst E. Characterizing the food environment: Pitfalls and future directions. Public Health Nutr 2013; 16:1238-1243. PubMed Central PMCID: PMC3975130.
11. *Enriquez E, **Duncan GE**, Schur E. Age at dieting onset, body mass index, and dieting practices: A twin study. Appetite 2013; 71:301-306. PubMed Central PMCID: PMC3913472.
12. *Cash SW, **Duncan GE**, Beresford SA, McTiernan A, Patrick DL. Increases in physical activity may affect quality of life differently in men and women. Qual Life Res 2013; 22:2381-2388. PubMed Central PMCID: PMC3760977.

13. Hurvitz PM, Moudon AV, Kang B, Saelens BE, **Duncan GE**. Emerging technologies for assessing physical activity behaviors in space and time. Front Public Health 2014; 2:2. PubMed Central PMCID: PMC3904281.
14. *Robinson-Cohen C, Littman AJ, **Duncan GE**, Weiss NS, Sachs MC, Ruzinski J, Kundzins J, Rock D, de Boer IH, Ikizler TA, Himmelfarb J, Kestenbaum BR. Physical activity and change in estimated glomerular filtration rate among persons with chronic kidney disease. J Am Soc Nephrol 2014; 25:399-406. PubMed Central PMCID: PMC3904564.
15. **Duncan GE**, McDougall CL, Dansie E, Garroutte E, Buchwald D, Henderson JA. Association of American Indian cultural identity with physical activity. Ethn Dis 2014; 24:1-7. PubMed Central PMCID: PMC3970840.
16. **Duncan GE**, Mills B, Strachan E, Hurvitz P, Huang R, Moudon AV, Turkheimer E. Stepping towards causation in studies of neighborhood and environmental effects: How twin research can overcome problems of selection and reverse causation. Health Place 2014; 27:106-111. PubMed Central PMCID: PMC4004691.
17. Soares-Miranda L, Sattelmair J, Chaves P, **Duncan GE**, Siscovick D, Stein P, Mozaffarian D. Physical activity and heart rate variability in older adults: the Cardiovascular Health Study. Circulation 2014; 129:2100-2110. PubMed Central PMCID: PMC4038662.
18. *Fretts AM, Howard BV, McKnight B, **Duncan GE**, Beresford SAA, Mete M, Zhang Y, Siscovick DS. Life's Simple 7 and incidence of diabetes in a population at high risk for cardio-metabolic diseases: The Strong Heart Family Study. Diabetes Care 2014; 37:2240-2245. PubMed Central PMCID: PMC4113167.
19. Doescher MP, Lee C, Berke EM, Adachi-Mejia AM, Lee CK, Stewart O, Patterson DG, Hurvitz PM, Carlos HA, **Duncan GE**, Moudon AV. The built environment and utilitarian walking in small U.S. towns. Prev Med 2014; 69:80-86.
20. Barrington WE, Beresford SAA, Koepsell TD, Yanez ND, **Duncan GE**, McGregor BA, Bishop SK, Moudon AV. Worksite neighborhood and individual obesogenic behaviors: Findings among employees in the PACE trial. Am J Prev Med 2015; 48:31-41.
21. **Duncan GE**, Cash SW, Horn EE, Turkheimer E. Quasi-causal associations of physical activity and neighborhood walkability with body mass index: A twin study. Prev Med 2015; 70:90-95. PubMed Central PMCID: PMC4274205.

Articles in Press

1. †Cohen-Cline H, Turkheimer E, **Duncan GE**. Access to green space, physical activity, and mental health: A twin study. J Epidemiol Comm Health; Accepted for publication.
2. Horn EE, Turkheimer E, Strachan E, **Duncan GE**. Behavioral and environmental modification of the genetic influence on body mass index: A twin study. Behav Genet; Accepted for publication.
3. Watson NF, Horn E, Buchwald D, Turkheimer E, Vitiello MV, Pack AI, **Duncan GE**. Sleep duration and social deprivation in twins. Sleep; Accepted for publication.
4. *Williams J, Townsend N, **Duncan G**, Drewnowski A. Usability of new technology in behavioural research: Participant experience using GPS devices in food environment research. J Hunger Environ Nutr; Accepted for publication.

Other Published Scholarly Work (proceedings, policy reports, technical reports, invited topical reviews, book reviews, book chapters, editorials, letters to the editor)

1. Soares-Miranda L, Sattelmair J, Chaves P, **Duncan GE**, Siscovick D, Stein PK, Mozaffarian D. Author's reply to O Monfredi, H Zhang, MR Boyett. Physical activity and heart rate variability in older adults: the Cardiovascular Health Study. Circulation 2014; In press.

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Peer-Reviewed Research Articles

1. *Monsivais P, **Johnson DB**. Improving nutrition in home child care: are food costs a barrier? Public Health Nutrition. 2012 Feb;15(2):370-6.
2. *Cheng CF, Zerzan JC, **Johnson DB**, Juul SE. Zinc Protoporphyrin-to-Heme Ratios in High-Risk and Preterm Infants. J Pediatr. 2012 Feb 3.
3. *Kong A, Beresford SAA, Imayama I, Duggan C, Alfano CM, Foster-Schubert KE, Neuhouser ML, **Johnson DB**, Wang CY, Xiao L, Bain CE, McTiernan A. Adoption of diet-related self-monitoring behaviors varies by race/ethnicity, education, and baseline binge eating scores among postmenopausal women in a 12-month dietary weight loss intervention. Nutr Res. 2012;32(4):260-265.
4. *Kong A, Beresford SAA, Alfano CM, Foster-Schubert KE, Neuhouser ML, **Johnson DB**, Duggan C, Wang C-Y, Xiao L, Jeffery RW, Bain CE, McTiernan A. Self-Monitoring and Eating-Related Behaviors Are Associated with 12-Month Weight Loss in Postmenopausal Overweight-to-Obese Women. J Acad Nutr Diet. 2012 Jul 10. [Epub ahead of print]
5. **Johnson DB**, Payne EC, McNeese MA, Allen D. Menu Labeling Policy in King County Washington: A Case Study of Policy Process. Am J Prev Med. 2012 Sep;43(3 Suppl 2):S130-5.
6. *Grow HM, **Johnson D**, Lund AE, Lutz A, Lutz R, Colman V. School Wellness Policy Development and Impact: A Case Study Using the Advocacy Coalition Framework. Washington State Journal of Public Health Practice. 2012 5: 21-38.
7. **Johnson DB**, Cheadle A, , Podrabsky M, Quinn E, MacDougall E, Cechovic K, Kovacs T, Lane, C, Sitaker M, Chan N, Allen D. Advancing Nutrition and Obesity Policy through Cross-Sector Collaboration: The Local Farms - Healthy Kids Initiative in Washington State. Journal of Hunger and Environmental Nutrition. 2013, 8(2): 171-186.
8. **Johnson DB**, Quinn EL, Podrabsky M, et al. Perceived impact and feasibility of strategies to improve access to healthy foods in Washington State, USA. Public Health Nutr. 2013;(12):2178-87.
9. Fleischacker S, **Johnson DB**, Quinn E, Pitts SJB, Byker, C. Sharkey JR. Advancing rural food access policy research priorities: process and potential of a transdisciplinary working group. J Ag Food Syst Comm Dev. Published online September 19, 2013.
10. Herman D, Baer MT, Adams EL, Cunningham-Sabo L, Duran N, **Johnson DB**, Yakes E. Life Course Perspective: Evidence for the Role of Nutrition. Maternal Child Health Journal. 2014; Feb;18(2):450-61.
11. Delaney S, **Johnson DB**, Monsivais P. Physical activity levels in family child care homes. J Phys Act Health. 2013 Dec 20. [Epub ahead of print]
12. **Johnson** DB, Quinn E, Sitaker M, Ammerman A, Byker C, Dean W, Fleischhacker S, Kolodinsky J, Pinard C, Jilcott Pitts S, Sharkey J. Developing an agenda for research about policies to improve access to healthy foods in rural communities: a concept mapping study. BMC Public Health. 2014 Jun 12;14:592. doi: 10.1186/1471-2458-14-592.
13. *Chen R, Cheadle A, **Johnson DB**, Duran B. US Trends in Receipt of Appropriate Diabetes Clinical and Self-care From 2001 to 2010 and Racial/Ethnic Disparities in Care. Diabetes Educ. 2014 Aug 20. pii: 0145721714546721. [Epub ahead of print]

Other Published Scholarly Work (proceedings, policy reports, technical reports, invited topical reviews, book reviews, book chapters, editorials, letters to the editor)

1. The School Beverage Inventory: Free Water Access and Exposure to Competitive Beverages in 40 Secondary Schools in King County. 2012.
2. Renton Menu Labeling Project: An Impact Evaluation of the “Healthy is Happy” Campaign. 2012.

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* Indicates author is student advisee/mentee.

Peer-Reviewed Research Articles

1. *Goh J, **Kirk EA**, Lee SX, Ladiges WC. 2012. Exercise, Physical Activity and Breast Cancer: The Role of Tumor-Associated Macrophages. Exercise Immunology Review 18:22-40.
2. Spiezio SH, Amon LM, McMillen TS, Vick CM, Houston BA, Caldwell M, Ogimoto K, Morton GJ, **Kirk EA**, Schwartz MW, Nadeau JH, LeBoeuf RC. 2014. Genetic determinants of atherosclerosis, obesity, and energy balance in consomic mice. Mamm Genome 2014 Jul 8. [Epub ahead of print] PubMed PMID: 25001233.
3. *Lee JT, Pamir N, Liu NC, **Kirk EA**, Averill MM, Becker L, Larson I, Hagman DK, Foster-Schubert KE, van Yserloo B, Bornfeldt KE, LeBoeuf RC, Kratz M, Heinecke JW. 2014. Macrophage Metalloelastase (MMP12) Regulates Adipose Tissue Expansion, Insulin Sensitivity, and Expression of Inducible Nitric Oxide Synthase. Endocrinology Sep;155(9):3409-20.

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Peer-Reviewed Research Articles

1. Marina A, von Frankenberg AD, Suvag S, Callahan HS, Richards TL, **Kratz M**, Utzschneider KM. Effects of dietary fat and saturated fat content on liver fat and markers of oxidative stress in overweight/obese men and women under weight-stable conditions. Nutrients 2014; 6: 4678-90.
2. *Hardikar S, Onstad L, Song X, Wilson AM, Montine TJ, **Kratz M**, Anderson GL, Blount PL, Reid BJ, White E, Vaughan T. Inflammation and oxidative stress markers and esophageal adenocarcinoma incidence in a Barrett's esophagus cohort. Cancer Epidemiology, Biomarkers & Prevention 2014; ePub ahead of print, August 8.
3. *Navarro SL, Schwartz Y, Song X, Wang CY, Chen C, Trudo SP, Kristal AR, **Kratz M**, Eaton DL, Lampe JW. Cruciferous vegetables had variable effects on biomarkers of systemic inflammation in a randomized controlled feeding trial in healthy young adults. Journal of Nutrition 2014; 144: 1850-7.
4. **Kratz M**, Coats BR, Hisert KB, Hagman DK, Mutskov V, Peris E, Schoenfelt KQ, Kuzma JN, Larson I, Billing PS, Landerholm RW, Crouthamel M, Gozal D, Hwang S, Singh P, Becker L. Metabolic dysfunction drives a mechanistically distinct pro-inflammatory phenotype in adipose tissue macrophages. Cell Metabolism 2014; 20: 614-25.
5. *Hardikar S, Song X, **Kratz M**, Anderson GL, Blount PL, Reid BJ, Vaughan TL, White E. Intraindividual variability over time in plasma biomarkers of inflammation and effects of long-term storage. Cancer Causes and Control 2014; 25: 969-76.
6. Lee J-T, Pamir N, Liu N-C, Kirk EA, Averill MM, Becker L, Larson I, Hagman DK, Foster-Schubert KE, van Yserloo B, Bornfeldt KE, LeBoeuf R, **Kratz M**, Heinecke J. Macrophage metalloelastase (MMP-12) regulates adipose tissue expansion, insulin sensitivity, and the expression of inducible nitric oxide synthase. Endocrinology 2014; 155: 3409-20.
7. **Kratz M**, Marcovina S, Nelson JE, Yeh MM, Kowdley KV, Callahan HS, Song X, Di C, Utzschneider KM. Dairy fat intake is associated with glucose tolerance, hepatic and systemic insulin sensitivity and liver fat, but not beta-cell function in humans. American Journal of Clinical Nutrition 2014; 99: 1385-96.
8. *Myhre R, **Kratz M**, Goldberg J, Polivy J, Melhorn S, Buchwald D, Cummings DE, Schur EA. A twin study of differences in the response of plasma ghrelin to a milkshake preload in restrained eaters. Physiology & Behavior 2014; 129: 50-6.
9. Song X, Navarro SL, Diep P, Thomas WK, Razmpoosh EC, Schwartz Y, Wang CY, **Kratz M**, Neuhouser ML, Lampe JW. Comparison and validation of two analytical methods for measurement of urinary sucrose and fructose excretion. Nutrition Research 2013; 33: 696-703.

10. Kantor ED, Lampe JD, **Kratz M**, White E. Association between lifestyle factors and C-reactive protein by body mass index. PLOS One 2013; 8: e67833.
11. **Kratz M**, Kuzma JN, Hagman DK, van Yserloo B, Matthys CC, Callahan HS, Weigle DS. Omega-3 polyunsaturated fatty acids do not affect adipose tissue inflammation in overweight to moderately obese men and women. Journal of Nutrition 2013; 143: 1340-7.
12. Kremsdorf R, Hoofnagle A, **Kratz M**, Weigle DS, Callahan HS, Purnell JQ, Horgan A, de Boer IH, Kestenbaum B. Effects of a high protein diet on regulation of phosphorus homeostasis. Journal of Clinical Endocrinology and Metabolism 2013; 98: 1207-13.
13. Campbell KL, Foster-Schubert KE, Makar KW, **Kratz M**, Hagman DK, Schur EA, Habermann N, Horton M, Abbenhardt C, Kuan LY, Xiao L, Davidson J, Morgan M, Wang CY, Duggan C, McTiernan A, Ulrich CM. Gene expression changes in adipose tissue with diet- and/or exercise-induced weight loss. Cancer Prevention Research 2013; 6: 217-31.
14. **Kratz M**, Baars T, Guyenet S. The relationship between high-fat dairy consumption and obesity, cardiovascular, and metabolic disease. European Journal of Nutrition 2013; 52: 1-24.
15. *Hagman DK, Kuzma JN, Larson I, Foster-Schubert KE, Kuan LY, Cignarella A, Geamanu E, Makar KW, Gottlieb JR, **Kratz M**. Characterizing and quantifying leukocyte populations in human adipose tissue: impact of enzymatic tissue processing. Journal of Immunological Methods 2012; 386: 50-9.
16. *Navarro SL, Brasky TM, Schwartz Y, Song X, Wang CY, Kristal AR, **Kratz M**, White E, Lampe JW. Reliability of serum biomarkers of inflammation from repeated measures in healthy individuals. Cancer Epidemiology, Biomarkers & Prevention 2012; 21: 1167-70.

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Peer-Reviewed Research Articles

1. Neuhouser ML, Schwarz Y, Wang C, Breymeyer K, Coronado G, Wang CY, Noar K, Song X, **Lampe JW**. A low-glycemic load diet reduces serum C-reactive protein and modestly increases adiponectin in overweight and obese adults. J Nutr. 2012;142:369-74.
2. *Reding KW, Atkinson C, Westerlind KC, Stanczyk FZ, Aiello Bowles EJ, Yong M, Newton KM, **Lampe JW**. Fruit intake associated with urinary estrogen metabolites in healthy premenopausal women. Open J Prev Med 2012;2:1-8.
3. Takata Y, King IB, **Lampe JW**, Burk RF, Hill KE, Santella RM, Kristal AR, Duggan DJ, Vaughan TL, Peters U. Genetic variation in GPX1 is associated with GPX1 activity in a comprehensive analysis of genetic variations in selenoenzyme genes and their activity and oxidative stress in humans. J Nutr. 2012;142:419-26.
4. Chang KT, **Lampe JW**, Schwarz Y, Breymeyer KL, Noar KA, Song X, Neuhouser ML. Low glycemic load experimental diet more satiating than high glycemic load diet. Nutr Cancer 2012;epub date 2012/05/09.
5. *Navarro SL, Brasky TM, Schwarz Y, Song X, Wang CY, Kristal AR, Kratz M, White E, **Lampe JW**. Reliability of serum biomarkers of inflammation from repeated measures in healthy individuals. Cancer Epidemiol Biomarkers Prev 2012;Epub 2012/05/09.
6. Coronado GD, Ondelacy S, Schwarz Y, Duggan C, **Lampe J**, Neuhouser ML. Recruiting underrepresented groups into the carbohydrates and related biomarkers (CARB) cancer prevention feeding study. Contemp Clin Trials 2012;33:641-6.
7. Takata Y, Kristal AR, Santella RM, King IB, Duggan DJ, **Lampe JW**, Rayman MP, Blount PL, Reid BJ, Vaughan TL, Peters U. Selenium, selenoenzymes, oxidative stress and risk of neoplastic progression from Barrett's Esophagus: Results from biomarkers and genetic variants. PLoS One 2012;7:e38612.
8. Atkinson C, Newton KM, Yong M, Stanczyk FZ, Westerlind KC, Li L, **Lampe JW**. Daidzein-metabolizing phenotypes in relation to bone density and body composition among premenopausal women in the United States. Metabolism. 2012; 61:1678-82.

9. Bell GA, Kantor ED, **Lampe JW**, Shen DD, White E. Use of glucosamine and chondroitin in relation to mortality. Eur J Epidemiol 2012; 27(8):593-603.
10. *Runchey SS, Pollak MN, Valsta LM, Coronado GD, Schwarz Y, Breymeyer KL, Wang C, Wang CY, **Lampe JW**, Neuhouser ML. Glycemic load effect on fasting and post-prandial serum glucose, insulin, IGF-1 and IGFBP-3 in a randomized, controlled feeding study. Eur J Clin Nutr. 2012 Oct;66:1146-52.
11. Dewi FN, Wood CE, **Lampe JW**, Hullar MA, Franke AA, Golden DL, Adams MR, Cline JM. Endogenous and exogenous equol are antiestrogenic in reproductive tissues of apolipoprotein E-null Mice. J Nutr 2012 142:1829-35.
12. Sczaniecka AK, Brasky TM, **Lampe JW**, Patterson RE, White E. Dietary intake of specific fatty acids and breast cancer risk among postmenopausal women in the VITAL Cohort. Nutr Cancer 2012;Epub 2012/11/10.
13. Kantor ED, **Lampe JW**, Vaughan TL, Peters U, Rehm CD, White E. Association between use of specialty dietary supplements and C-reactive protein concentrations. Am J Epidemiol 2012; 176:1002-13.
14. *Runchey SS, Valsta LM, Schwarz Y, Wang C, Song X, **Lampe JW**, Neuhouser ML. Effect of low- and high-glycemic load on circulating incretins in a randomized clinical trial. Metabolism. 2013;62:188-95.
15. Wang Z, Lin YS, Dickmann LJ, Poulton EJ, Eaton DL, **Lampe JW**, Shen DD, Davis CL, Shuhart MC, Thummel KE. Enhancement of hepatic 4-hydroxylation of 25-hydroxyvitamin D(3) through CYP3A4 induction in vitro and in vivo: Implications for drug-induced osteomalacia. J Bone Miner Res 2013; 28:1101-16.
16. Poulton EJ, Levy L, **Lampe JW**, Shen DD, Tracy J, Shuhart MC, Thummel KE, Eaton DL. Sulforaphane is not an effective antagonist of the human pregnane X-receptor in vivo. Toxicol Appl Pharmacol 2013;266:122-31.
17. Kantor ED, **Lampe JW**, Peters U, Shen DD, Vaughan TL, White E. Use of glucosamine and chondroitin supplements and risk of colorectal cancer. Cancer Causes Control 2013;Epub 2013/03/27.
18. Crawford SL, Jackson EA, Churchill L, **Lampe JW**, Leung K, Ockene JK. The impact of dose, frequency of administration, and equol production on efficacy of isoflavones for menopausal hot flashes: a pilot randomized trial. Menopause 2013;Epub 2013/03/21.
19. Tseng HH, Hullar MAJ, Li F, **Lampe JW**, Sandstrom R, Johnson AK, Strate LL, Ruzzo WL, Stamatoyannopoulos J. A microbial profiling method for the human microbiota using high-throughput sequencing. Metagenomics, (Cairo). 2013;2:235646.
20. Reed SD, **Lampe JW**, Qu C, Gundersen G, Fuller S, Copeland WK, Newton KM. Self-reported menopausal symptoms in a racially diverse population and soy food consumption. Maturitas 2013; 75:152-8.
21. Klosterbuer AS, Hullar MA, Li F, Traylor E, **Lampe JW**, Thomas W, Slavin JL. Gastrointestinal effects of resistant starch, soluble maize fibre and pullulan in healthy adults. Br J Nutr 2013; 110(6):1068-74.
22. Anderson CA, Beresford SA, McLerran D, **Lampe JW**, Deeb S, Feng Z, Motulsky AG. Response of serum and red blood cell folate concentrations to folic acid supplementation depends on methylenetetrahydrofolate reductase C677T genotype: Results from a crossover trial. Mol Nutr Food Res 2013;57:637-44.
23. May DH, Navarro SL, Ruczinski I, Hogan J, Ogata Y, Schwarz Y, Levy L, Holzman T, McIntosh MW, **Lampe JW**. Metabolomic profiling of urine: response to a randomised, controlled feeding study of select fruits and vegetables, and application to an observational study. Br J Nutr 2013; 110:1760-70.
24. Fink SP, Yang DH, Barnholtz-Sloan JS, Ryu YM, Mikkola D, Potter JD, **Lampe JW**, Markowitz SD, Myung SJ. Colonic 15-PGDH Levels are stable across distance and time and are not perturbed by aspirin intervention. Dig Dis Sci 2013, 58:2615-22.
25. Reed SD, **Lampe JW**, Qu C, Copeland WK, Gundersen G, Fuller S, Newton KM. Premenopausal vasomotor symptoms in an ethnically diverse population. Menopause 2013;Epub 2013/06/14.
26. Tetens I, Turrini A, Tapanainen H, Christensen T, **Lampe JW**, Fagt S, Håkansson N, Lundquist A, Hallund J, Valsta LM, Phytohealth WPwg. Dietary intake and main sources of plant lignans in five European countries. Food Nutr Res 2013;57:EPub 2013/06/15. PubMed Central PMCID: PMC3681209.

27. Hanson AJ, Bayer-Carter JL, Green PS, Montine TJ, Wilkinson CW, Baker LD, Watson GS, Bonner LM, Callaghan M, Leverenz JB, Tsai E, Postupna N, Zhang J, **Lampe J**, Craft S. Effect of Apolipoprotein E genotype and diet on Apolipoprotein E lipidation and amyloid peptides: randomized clinical trial. JAMA Neurol 2013:1-9.
28. Kantor ED, **Lampe JW**, Kratz M, White E. Lifestyle factors and inflammation: associations by body mass index. PLoS One 2013;8(7):e67833.
29. Kantor ED, Ulrich CM, Owen RW, Schmezer P, Neuhouser ML, **Lampe JW**, Peters U, Shen DD, Vaughan TL, White E. Specialty supplement use and biologic measures of oxidative stress and DNA damage. Cancer Epidemiol Biomarkers Prev. 2013 22:2312-22.
30. Song X, Navarro SL, Diep P, Thomas WK, Razmpoosh EC, Schwarz Y, Wang CY, Kratz M, Neuhouser ML, **Lampe JW**. Comparison and validation of 2 analytical methods for measurement of urinary sucrose and fructose excretion. Nutr Res. 2013;33:696-703.
31. Kantor ED, **Lampe JW**, Peters U, Vaughan TL, White E. Long-chain omega-3 polyunsaturated fatty acid intake and risk of colorectal cancer. Nutr Cancer. 2014; 66:716-27.
32. Bak YK, **Lampe JW**, Sung MK. Dietary supplementation of glucosamine sulfate attenuates intestinal inflammation in a mouse model of experimental colitis. J Gastroenterol Hepatol 2014; 29:957-63.
33. Frankenfeld CL, Atkinson C, Wähälä K, **Lampe JW**. Obesity prevalence in relation to gut microbial environments capable of producing equol or O-desmethylangolensin from the isoflavone daidzein. Eur J Clin Nutr. 2014; 68:526-30.
34. Bell GA, Kantor ED, **Lampe JW**, Kristal AR, Heckbert SR, White E. Intake of long-chain ω-3 fatty acids from diet and supplements in relation to mortality. Am J Epidemiol. 2014;179:710-20.
35. Scherer D, Koepl LM, Poole EM, Balavarca Y, Xiao L, Baron JA, Hsu L, Coghill AE, Campbell PT, Kleinstein SE, Figueiredo JC, **Lampe JW**, Buck K, Potter JD, Kulmacz RJ, Jenkins MA, Hopper JL, Win AK, Newcomb PA, Ulrich CM, Makar KW. Genetic variation in UGT genes modify the associations of NSAIDs with risk of colorectal cancer: colon cancer family registry. Genes Chromosomes Cancer. 2014; 53:568-78.
36. Kantor ED, **Lampe JW**, Navarro SL, Song X, Milne GL, White E. Associations between glucosamine and chondroitin supplement use and biomarkers of systemic inflammation. J Altern Complement Med. 2014; 20(6):479-85.
37. Tasevska N, Midthune D, Tinker LF, Potischman N, **Lampe JW**, Neuhouser ML, Beasley JM, Van Horn L, Prentice R, Kipnis V. Use of a urinary sugars biomarker to assess measurement error in self-reported sugars intake in the Nutrition and Physical Activity Assessment Study (NPAAS). Cancer Epidemiol Biomarkers Prev 2014 Sep 18 [Epub ahead of print].
38. *Navarro SL, Schwarz Y, Song X, Wang CY, Chen C, Trudo SP, Kristal AR, Kratz M, Eaton DL, **Lampe JW**. Cruciferous vegetables had variable effects on biomarkers of systemic inflammation in a randomized controlled trial in healthy young adults. J Nutr 2014;144:1850-7. PubMed Central PMCID: PMC4195422.

Articles in Press

1. Newton KM, Reed SD, Uchiyama S, Qu C, Ueno T, Iwashita S, Gunderson G, Fuller S, **Lampe JW**. A cross-sectional study of equol producer status and self-reported vasomotor symptoms. Menopause 2014, in press.
2. Hullar MAJ, Lancaster SM, Li F, Tseng E, Beer K, Atkinson C, Wähälä K, Copeland W, Randolph TW, Newton KM, **Lampe JW**. Association between gut microbial community and urinary enterolignan excretion in premenopausal women in the United States. Cancer Epidemiol Biomarkers Prev, in press.
3. *Navarro SL, White E, Kantor ED, Lampe, PD, Zhang, Y, Rho, J, Song X, Milne GL, **Lampe JW**. Randomized trial of glucosamine and chondroitin supplementation on inflammation and oxidative stress biomarkers and plasma proteomics profiles in healthy humans. PlosOne, in press.

Other Published Scholarly Work (proceedings, policy reports, technical reports, invited topical reviews, book reviews, book chapters, editorials, letters to the editor)

1. Sitthiphong P, Klinder A, **Lampe JW**, Rowland I. Flavonoids and cancer–effects on DNA damage. In: Spencer JPE and Crozier A (ed) Flavonoids and Related Compounds: Bioavailability and Function. New York, NY: CRC Press, 2012, pp. 425-44.
2. Cross A, **Lampe JW**, Rock CL. Biomarkers and biological indicators of change. In: Coulston A, Boushey CJ, Ferruzzi M (eds.). Nutrition in the Prevention and Treatment of Disease, 3rd edition. Elsevier, Inc. 2012, pp. 209-225.
3. *Yoder SC, Lancaster SM, Hullar MAJ, **Lampe JW**. Gut microbial metabolism of plant lignans: Influence on human health. In: Touhy K and Delrio D (eds), Diet-Microbe Interactions in the Gut. Elsevier, Inc., 2014, pp103-17.
4. Hullar MA, **Lampe JW**. The gut microbiome and obesity. Nestle Nutr Inst Workshop Ser 2012;73:67-79.
5. **Lampe JW**, Navarro SL, Hullar MA, Shojaie A. Inter-individual differences in response to dietary intervention: integrating omics platforms towards personalised dietary recommendations. Proc Nutr Soc 2013; 72:207-18.
6. Hullar MAJ, Burnett-Hartman A, **Lampe JW**. Gut microbes, diet, and cancer. Cancer Treat Res 2014:159:377-99.
7. **Lampe JW**, Hursting SD. Integrating the mechanistic literature: Toward co-clinical approaches in nutritional research. The Digest, Academy of Nutrition and Dietetics Research Dietitian Working Group, in press.

Anne Lund

Peer-Reviewed Research Articles

1. Mollie Grow MD MPH, Donna Johnson PhD RD, **Anne Lund RD MPH,** Victor Colman JD, Robert Lutz MD MPH, Amy Lutz MS. School Wellness Policy Development and Impact: A Case Study in Washington State Using the Advocacy Coalition Framework. Washington State Journal of Public Health Practice. 2012;5(1):21-38.

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Peer-Reviewed Research Articles

1. **Mendoza JA**, Watson K, Chen T-A, et al. Impact of a pilot walking school bus intervention on children's pedestrian safety behaviors: A pilot study. Health & Place. 2012;18(1):24-30. PubMed PMID: 22243904; PMCID: PMC3259456.
2. **Mendoza JA**, Salmon J, Sallis JF. Partnerships for progress in active living: From research to action. Health & Place. 2012;18(1):1-4. PubMed PMID: 22243900.
3. O'Neil CE, Deshmukh-Taskar P, **Mendoza JA**, et al. Dietary, Lifestyle, and Health Correlates of Overweight and Obesity in Adults 19 to 39 Years of Age: The Bogalusa Heart Study. American Journal of Lifestyle Medicine. 2011. Epub ahead of print October 14, 2011.
4. **Mendoza JA**, Nicklas TA, Liu Y, Stuff J, Baranowski T. General Versus Central Adiposity and Relationship to Pediatric Metabolic Risk. Metabolic Syndrome and Related Disorders. Apr 2012;10(2):128-136. PubMed PMID: 22149935; PubMed Central PMCID: PMC3339386.
5. Baranowski T, Chen T-A, **Mendoza JA**, O'Connor T, Baranowski J, Jago R. Prospective BMI category change associated with cardiovascular fitness change. Medicine & Science in Sports & Exercise. 2013;45(2):294-298 210. PubMed PMID: 22935738; PMCID: PMC3552042.

6. **Mendoza JA**, McLeod J, Chen T-A, Nicklas TA, and Baranowski T. Convergent validity of preschool children's television viewing measures among low-income Latino families: A cross-sectional study. Child Obes. Feb 2013;9(1):29-34. PubMed PMID: 23270534; PubMed Central PMCID: PMC3604787.
7. **Mendoza JA**, Paul ME, Schwarzwald H, et al. Food Insecurity, CD4 Counts, and Incomplete Viral Suppression Among HIV+ Patients from Texas Children's Hospital: A Pilot Study. AIDS and Behavior. 2013;17(5):1683-1687. PubMed PMID: 23377704; PubMed Central PMCID: PMC3664131.
8. Jago R, **Mendoza JA**, Chen T, Baranowski T. Longitudinal associations between BMI, waist circumference, and cardiometabolic risk in US youth: Monitoring implications. Obesity. Mar 2013;21(3):E271-E279. PubMed PMID: 23592681; PubMed Central PMCID: PMC3630468.
9. Chen T-A, O'Connor T, Hughes, S, Frankel L, Baranowski B, **Mendoza JA**, Thompson D, Baranowski T. TV parenting practices: is the same scale appropriate for parents of children of different ages? Int J Behav Nutr Phys Act. 2013;10(1):41. PubMed PMID: 23548115; PubMed Central PMCID: PMC3623785.
10. O'Connor TM, Cerin E, Robles J, Lee RE, Kerr J, Butte N, **Mendoza JA**, Thompson D, and Baranowski T. Feasibility Study to Objectively Assess Activity and Location of Hispanic Preschoolers: A Short Communication. Geospatial Health. May 2013;7(2):375-380. PubMed PMID: 23733298; PubMed Central PMCID in process.
11. Davison KK, Masse LC, Timperio A, Frenn MD, Saunders J, **Mendoza JA**, Gobbi E, Hanson P, Trost SG. Physical activity parenting measurement and research: challenges, explanations, and solutions. Child Obes. Aug 2013;9 Suppl:S103-109. PubMed PMID: 23944918; PubMed Central PMCID: PMC3746238.
12. Baranowski T, O'Connor T, Hughes S, Sleddens E, Beltran A, Frankel L, **Mendoza JA**, Baranowski J. Houston ... We Have a Problem! Measurement of Parenting. Child Obes. Aug 2013;9 Suppl:S1-4. PubMed PMID:23837847.
13. Nicklas TA, Liu Y, Stuff JE, Fisher JO, **Mendoza JA**, O'Neil CE. Characterizing lunch meals served and consumed by pre-school children in Head Start. Public Health Nutrition. 2013;16(12):2169-2177. PubMed PMID: 23701867.
14. **Mendoza JA**, McLeod J, Chen T-A, Nicklas TA, and Baranowski T. Correlates of Adiposity among Latino Preschool Children. J Phys Act & Health. Jan 2014;11(1):195-198. PubMed PMID: 23250380; PubMed Central PMCID: PMC3750103.
15. O'Connor T, Cerin E, Hughes SO, Robles J, Thompson D, **Mendoza JA**, Baranowski T, and Lee RE. Psychometrics of the preschooler physical activity parenting practices instrument among a Latino sample. Int J Behav Nutr Phys Act. 2014;11(1):3. PubMed PMID: 3903032.
16. **Mendoza JA** and Liu Y. Active commuting to elementary school and adiposity: an observational study. Child Obes. Feb 2014;10(1):34-41. PubMed PMID: 24443901; PubMed Central PMCID: PMC3922227.
17. Thompson D, Cantu D, Bhatt R, Baranowski T, Rodgers W, Jago R, Anderson B, Liu Y, **Mendoza JA**, Tapia R, and Buday R. Texting to Increase Physical Activity Among Teens (TXT Me!): Rationale, Design, and Methods. JMIR Res Protoc. 2014/03/12 2014;3(1):e14. PubMed PMID: 24622344; PubMed Central PMCID: PMC3967196.
18. O'Connor, TM, Cerin E, Lee R, Parker N, Chen T-Z, Hughes SO, **Mendoza JA**, and Baranowski T. Environmental and Cultural Correlates of Physical Activity Parenting Practices among Latino Parents with Preschool-aged Children: Niños Activos. BMC Public Health. 2014;14(1):707. PubMed PMID: 25011669; PubMed Central PMCID: in process.
19. **Mendoza JA**, Cowan D, Liu Y. Predictors of Children's Active Commuting to School: an Observational Evaluation in Five US Communities. J Phys Act & Health. 2014 May;11(4):729-33. PubMed PMID: 23575275; PubMed Central PMCID: PMC3749259.
20. **Mendoza JA**, Matshaba M, Makhanda J, Liu Y, Boitshwarelo M, Anabwani GM. Food Insecurity and CD4% among HIV+ Children in Gaborone, Botswana. JAIDS. Aug 1, 2014;66(4):414-418. PubMed PMID: 24798763; PubMed Central PMCID in process.

21. Oreskovic NM, Blossom J, Robinson AI, Chen ML, Uscanga DK, **Mendoza JA**. The influence of the built environment on outcomes from a "walking school bus study": a cross-sectional analysis using geographical information systems. Geospat Health. 2014;9(1):37-44. PubMed PMID: 25545924; PubMed Central PMCID: in process.

Articles in Press

1. *Davis AL, Chen T-A, McLeod J, Schwebel DC, and **Mendoza JA**. Correlates of Television Viewing among Latino Preschoolers. September 2014.
2. Cerin E, O'Connor T, **Mendoza JA**, Thompson D, Lee R, Hughes S, and Baranowski T. A Child-Centered Scale of Informal Social Control for Latino Parents of Preschool-Aged Children: Development and Validation. June 2014.
3. *Dawson-Hahn, Fesinmeyer M, and **Mendoza JA**. Correlates of Physical Activity in Latino Preschool Children Attending Head Start. August 2014.

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Peer-Reviewed Research Articles

1. Bael S, Ulrich CM, **Neuhouser ML**, Malysheva O, Bailey LB, Xiao L, Brown EC, Cushing-Haugen KL, Zheng Y, Cheng TD, Miller JW, Green R, Lane DS, Beresford SAA, Caudill MA, Plasma choline metabolites and colorectal cancer risk in the Women's Health Initiative Observational Study. Cancer Research. 2014; 74(24):7442-7452. doi: 10.1158/008-5472.CAN-14-1835.
2. Thomson CA, E Crane T, Wertheim BC, **Neuhouser ML**, Li W, Snetselaar LG, Basen-Engquist KM, Zhou Y, Irwin ML. Diet quality and survival after ovarian cancer: Results from the Women's Health Initiative. J Natl Cancer Inst. 2014; 106(11). pii: dju314. doi: 10/1093/jnci/dju314.
3. Schenk JM, Till CA, Tangen CM, Goodman PJ, Song X, Torkko KC, Kristal AR, Peters U, **Neuhouser ML**. Serum 25-hydroxyvitamin d concentrations and risk of prostate cancer: results from the Prostate Cancer Prevention Trial. Cancer Epidemiol Biomarkers Prev. 2014 Aug; 23(8):1484-93. PubMed Central PMCID: PMC4120235.
4. Crowe FL, Appleby PN, Travis RC, Barnett M, Brasky TM, Bueno-de-Mesquita HB, Chajes V, Chavarro JE, Chirlaque MD, English DR, Gibson RA, Giles GG, Goodman GE, Henning SM, Kaaks R, King IB, Kolonel LN, Kristal AR, **Neuhouser ML**, Park SY, Severi G, Siddiq A, Stampfer MJ, Stattin P, Tangen CM, Tjønneland A, Trichopoulos D, Tumino R, Wilkens LR, Key TJ, Allen NE. Endogenous Hormones, Nutritional Biomarkers and Prostate Cancer Collaborative Group. Circulating Fatty Acids and Prostate Cancer Risk: Individual Participant Meta-analysis of Prospective Studies. J Natl Cancer Inst. 2014 Sep 10; 106(9). PubMed Central PMCID: PMC4188122.
5. Tasevska N, Midthune D, Tinker LF, Potischman N, Lampe JW, **Neuhouser ML**, Beasley JM, Van Horn L, Prentice RL, Kipnis V. Use of a urinary sugars biomarker to assess measurement error in self-reported sugars intake in the Nutrition and Physical Activity Assessment Study (NPAAS). Cancer Epidemiol Biomarkers Prev. 2014 Sep 18. pii: cebp.0594.2014. [Epub ahead of print]
6. Togawa K, Ma H, Sullivan-Halley J, **Neuhouser ML**, Imayama I, Baumgartner KB, Wilder Smith A, Alfano CM, McTiernan A, Ballard-Barbash R, Bernstein L. Risk factors for self-reported arm lymphedema among female breast cancer survivors: a prospective cohort study. Breast Cancer Res. 2014 Aug 22; 16(4):414. PubMed Central PMCID: PMC4189147.
7. George SM, Bernstein L, Smith AW, **Neuhouser ML**, Baumgartner KB, Baumgartner RN, Ballard-Barbash R. Central adiposity after breast cancer diagnosis is related to mortality in the Health, Eating, Activity, and Lifestyle study. Breast Cancer Res Treat. 2014; 146(3):647-55. doi:10.1007/s10549-014-3048-x. PMC Journal – In Process.

8. George SM, Alfano CM, **Neuhouser ML**, Smith AW, Baumgartner RN, Baumgartner KB, Bernstein L, Ballard-Barbash R. Better postdiagnosis diet quality is associated with less cancer-related fatigue in breast cancer survivors. J Cancer Surviv. 2014 Jul 8. [Epub ahead of print] doi:10.1007/s11764-014-0381-3.
9. George SM, Ballard-Barbash R, Manson JE, Reedy J, Shikany JM, Subar AF, Tinker LF, Vitolings M, **Neuhouser ML**. Comparing Indices of Diet Quality With Chronic Disease Mortality Risk in Postmenopausal Women in the Women's Health Initiative Observational Study: Evidence to Inform National Dietary Guidance. Am J Epidemiol. 2014; 180(6):616-25. PubMed Central PMCID: PMC4157698.
10. Zheng C, Beresford SA, Van Horn L, Tinker LF, Thomson CA, **Neuhouser ML**, Di C, Manson JE, Mossavar-Rahmani Y, Seguin R, Manini T, LaCroix AZ, Prentice RL. Simultaneous Association of Total Energy Consumption and Activity-related Energy Expenditure with Cardiovascular Disease, Cancer, and Diabetes Risk among Postmenopausal Women. Am J Epidemiol. 2014;180(5):526-535. PubMed Central PMCID: PMC4143077.
11. Freedman LS, Commins JM, Moler JE, Willett W, Tinker LF, Subar AF, Spiegelman D, Rhodes D, Potischman N, **Neuhouser ML**, Moshfegh AJ, Kipnis V, Arab L, Prentice RL. Pooled Results from 5 Validation Studies of Dietary Self-Report Instruments Using Recovery Biomarkers for Energy and Protein Intake. Am J Epidemiol. 2014; 180(2):172-88. PubMed Central PMCID: PMC408234.
12. Cheng TY, Goodman GE, Thornquist MD, Barnett MJ, Beresford SA, Lacroix AZ, Zheng Y, **Neuhouser ML**. Estimated intake of vitamin D and its interaction with vitamin A on lung cancer risk among smokers. Int J Cancer. 2014 Mar 13. doi: 10.1002/ijc.28846. [Epub ahead of print]
13. Cheng TY, Millen AE, Wactawski-Wende J, Beresford SA, Lacroix AZ, Zheng Y, Goodman GE, Thornquist MD, **Neuhouser ML**. Vitamin D intake determines vitamin d status of postmenopausal women, particularly those with limited sun exposure. J Nutr. 2014; 144(5):681-9. PubMed Central PMCID: PMC3985825.
14. Abbenhardt C, Miller JW, Song X, Brown EC, Cheng TD, Wener MH, Zheng Y, Toriola AT, **Neuhouser ML**, Beresford SA, Makar KW, Bailey LB, Maneval DR, Green R, Manson JE, Van Horn L, Ulrich CM. Biomarkers of one-carbon metabolism are associated with biomarkers of inflammation in women. J Nutr. 2014; 144(5):714-21. PubMed Central PMCID: PMC3985828.
15. Bertoia ML, Triche EW, Michaud DS, Baylin A, Hogan JW, **Neuhouser ML**, Tinker LF, Van Horn L, Waring ME, Li W, Shikany J, Eaton CB. Mediterranean and Dietary Approaches to Stop Hypertension dietary patterns and risk of sudden cardiac death in post-menopausal women. Am J Clin Nutr. 2014; 99(2): 344-51. PubMed Central PMCID: PMC3893726.
16. Huang Y, Van Horn L, Tinker LF, **Neuhouser ML**, Carbone L, Mossavar-Rahmani Y, Thomas F. Prentice RL. Measurement error corrected sodium and potassium intake estimation using 24-hour urinary excretion. Hypertension. 2014; 63(2):238-44. PubMed Central PMCID: PMC4070598.
17. Brasky TM, **Neuhouser ML**, Cohn DE, White E. Association of long-chain ω-3 fatty acids and fish intake with endometrial cancer risk in the VITamins and Lifestyle cohort. Am J Clin Nutr. 2014; 99(3):599-608. PubMed Central PMCID: PMC3927693.
18. Kristal AR, Till CA, Song X, Tangen CM, Goodman PJ, **Neuhouser ML**, Schenk JM, Thompson IM, Meyskens FL, Goodman GE, Minasian LM, Parnes HL, Klein EA. Plasma vitamin D and prostate cancer risk; Results from the Selenium and Vitamin E Cancer Prevention Trial. Cancer Epidemiol Biomarkers Prev. 2014; 23(8):1494-504. PubMed Central PMCID: PMC4119495.
19. Adams SV, Quraishi SM, Shafer MM, Passarelli MN, Freney EP, Chlebowski RT, Luo J, Meliker JR, Mu L, **Neuhouser ML**, Newcomb PA. Dietary Cadmium Exposure and Risk of Breast, Endometrial, and Ovarian Cancer in the Women's Health Initiative. Environ Health Perspect. 2014; 122(6):594-600. PubMed Central PMCID: PMC4050510.
20. Sturgeon SR, Doherty A, Reeves KW, Bigelow C, Stanczyk FZ, Ockene JK, Liu S, Manson JE, **Neuhouser ML**. Urinary Levels of Melatonin and Risk of Postmenopausal Breast Cancer: Women's Health Initiative

Observational Cohort. Cancer Epidemiol Biomarkers Prev 2014; 23(4):629-37. PubMed Central PMCID: PMC3985556.
21. George SM, Ballard-Barbash R Shikany JM, Caan BJ, Freudenheim, JL, Kroenke CH, Vitolins MZ, Beresford SA, **Neuhouser ML**. Better Postdiagnosis Diet Quality is Associated with Reduced Risk of Death among Postmenopausal Women with Invasive Breast Cancer in the Women's Health Initiative. Cancer Epidemiol Biomarkers Prev. 2014; 23(4):575-83. PubMed Central PMCID: PMC4091724.
22. Beasley JM, LaCroix AZ, Larson J, Huang Y, **Neuhouser ML**, Tinker LF, Jackson R, Snetselaar LG, Johnson KC, Eaton CB, Prentice RL. Biomarker-calibrated protein intake and bone health in the women's health initiative clinical trial and observational study. Am J Clin Nutr. 2014; 99:934-40. PubMed Central PMCID: PMC3953886.
23. Platz EA, Tangen CM, Goodman PJ, Till C, Parnes HL, Figg WD, Albanes D, **Neuhouser ML**, Klein EA, Lucia MS, Thompson IM, Kristal AR. Statin Drug Use is Not Associated with Prostate Cancer Risk in Men who are Regularly Screened. J Urol. 2014; 192(2):379-84. PubMed Central PMCID: PMC4104140.
24. Schnatz PF, Jiang X, Vila-Wright S, Aragaki AK, Nudy M, O'Sullivan DM, Jackson R, LeBlanc E, Robinson JG, Shikany JM, Womack CR, Martin LW, **Neuhouser ML**, Vitolin MZ, Song Y, Kritchevsky S, Manson JE. Calcium/vitamin D supplementation, serum 25-hydroxyvitamin D concentrations, and cholesterol profiles in the Women's Health Initiative calcium/vitamin D randomized trial. Menopause. 2014; 21(8):823-33. PMC Journal – In Process.
25. Brasky TM, **Neuhouser ML**, Cohn DE, White E. Associations of long-chain ω-3 fatty acids and fish intake with endometrial cancer risk in the VITamins And Lifestyle cohort. Am J Clin Nutr. 2014; 99(3):599-608. PubMed Central PMCID: PMC3927693.
26. Beasley JM, Gunter MJ, LaCroix AZ, Prentice RL, **Neuhouser ML**, Tinker LF, Vitolins MZ, Strickler HD. Associations of serum insulin-like growth factor-I and insulin-like growth factor-binding protein 3 levels with biomarker-calibrated protein, dairy product and milk intake in the Women's Health Initiative. Br J Nutr. 2014; 111(5):847-853. PubMed Central PMCID: PMC3978780.
27. Thomson CA, McCullough ML, Wertheim BC, Chlebowski RT, Martinez ME, Stefanick ML, Rohan TE, Manson JE, Tindle HA, Ockene J, Vitolins MZ, Wactawski-Wende J, Sarto GE, Lane DS, **Neuhouser ML**. Nutrition and Physical Activity Cancer Prevention Guidelines, Cancer Risk, and Mortality in the Women's Health Initiative. Cancer Prev Res. 2014; 7(1):42-53. PubMed Central PMCID: PMC4090781.
28. Mason C, Alfano CM, Smith AW, Wang CY, **Neuhouser ML**, Duggan C, Bernstein L, Baumgartner KB, Baumgartner RN, Ballard-Barbash R, McTiernan A. Long-term physical activity trends in breast cancer survivors. Cancer Epidemiol Biomarkers Prev. 2013 Jun;22(6):1153-61. PubMed Central PMCID: PMC3688258.
29. Graff M, Fernandez-Rhodes L, Liu S, Carlson C, Wassertheil-Smoller S, **Neuhouser M**, Reiner A, Kooperberg C, Rampersaud E, Manson JE, Kuller LH, Howard BV, Ochs-Balcom HM, Johnson KC, Vitolins MZ, Sucheston L, Monda K, North KE. Generalization of adiposity genetic Loci to U.S. Hispanic Women. Nutr Diabetes. 2013; 3:e85. PubMed Central PMCID: PMC3759132.
30. Ballard Barbash R, Krebs-Smith S, **Neuhouser ML**. Potential to link dietary patterns in the food supply and populations to health. J Natl Cancer Inst. 2013; 105(17):1265-7. *Not NIH funded, no PMC required.
31. Cheng TY, LaCroix AZ, Beresford SA, Goodman GE, Thornquist MD, Zheng Y, Chlebowski RT, Ho GY, **Neuhouser ML**. Vitamin D intake and lung cancer risk in Women's Health Initiative. Am J Clin Nutr. 2013; 98(4):1002-11. PubMed Central PMCID: PMC3778856.
32. Beasley JM, Wertheim BC, LaCroix AZ, Prentice RL, **Neuhouser ML**, Tinker LF, Kritchevsky S, Shikany JM, Eaton C, Chen Z, Thomson CA. Biomarker-calibrated protein intake and physical function in the Women's Health Initiative. J Am Geriatr Soc. 2013; 61(11):1863-71. PubMed Central PMCID: PMC3928025.
33. Bae S, Ulrich CM, Bailey LC, Malysheva O, Brown EC, **Neuhouser ML**, Cheng TYD, Miller JW, Zheng Y, Xiao L, Hou L, Song X, Buck K, Beresford SAA, Caudill MA. Impact of folic acid fortification on global DNA

methylation and one-carbon biomarkers in the Women's Health Initiative Observation Study cohort. Epigenetics. 2013; 9(3):138.
34. Kantor ED, Ulrich CM, Owen RW, Schmezer P, **Neuhouser ML**, Lampe JW, Peters U, Shen DD, Vaughan TL, White E. Specialty Supplement Use and Biologic Measures of Oxidative Stress and DNA Damage. Cancer Epidemiol Biomarkers Prev. 2013; 22(12): 2312-22. PubMed Central PMCID: PMC3901246.
35. George SM, McTiernan A, Villaseñor A, Alfano CM, Irwin ML, **Neuhouser ML**, Baumgartner RN, Baumgartner KB. Disentangling the body weight-bone mineral density association among breast cancer survivors: An examination of the independent roles of lean mass and fat mass. BMC Cancer. 2013; 13(1):497. PubMed Central PMCID: PMC3924343.
36. Prentice RL, **Neuhouser ML**, Tinker LF, Pettiger M, Thomson CA, Mossavar-Rahmani Y, Thomas F, Qi L, Huang Y. An Exploratory Study of Respiratory Quotient Calibration and Association with Postmenopausal Breast Cancer. Cancer Epidemiol Biomarkers Prev. 2013; 22(12): 2374-83. PubMed Central PMCID: PMC3864792.
37. Wassertheil-Smoller S, McGinn AP, Budrys N, Chlebowski R, Ho GY, Johnson KC, Lane DS, Li W, **Neuhouser ML**, Saquib J, Shikany JM, Song Y, Thomson C. Multivitamin and mineral use and breast cancer mortality in older women with invasive breast cancer in the women's health initiative. Breast Cancer Res Treat. 2013. PubMed Central PMCID: PMC3902175.
38. Perrigue MM, Kantor ED, Hastert TA, Patterson R, Potter JD, **Neuhouser ML**, White E. Eating frequency and risk of colorectal cancer. Cancer Causes Control. 2013; 24(12):2107-15. PubMed Central PMCID: PMC3875335.
39. Prentice RL, Pettiger M, Tinker LF, Huang Y, Thomson CA, Johnson KC, Beasley J, Anderson G, Shikany JM, Chlebowski RT, **Neuhouser ML**. Regression Calibration in Nutritional Epidemiology: Example of Fat Density and Total Energy in Relationship to Postmenopausal Breast Cancer. Am J Epidemiol. 2013; 178(11):1663-72. PubMed Central PMCID: PMC3842904.
40. Schmitz KH, **Neuhouser ML**, Agurs-Collins T, Zanetti KA, Cadmus-Bertram L, Dean LT, Drake BF. Impact of Obesity on Cancer Survivorship and the Potential Relevance of Race and Ethnicity. J Natl Cancer Inst. 2013; 105(18):1344-54. PubMed Central PMCID: PMC3776266.
41. Bertoia ML, Triche EW, Michaud DS, Baylin A, Hogan JW, **Neuhouser ML**, Freiberg MS, Allison MA, Safford MM, Li W, Mossavar-Rahmani Y, Rosal MC, Eaton CB. Long-term alcohol and caffeine intake and risk of sudden cardiac death in women. Am J Clin Nutr. 2013; 97(6):1356-63. PubMed Central PMCID: PMC3652927.
42. **Neuhouser ML**, Di C, Tinker LF, Thomson C, Sternfeld B, Mossavar-Rahmani Y, Stefanick ML, Sims S, Curb JD, Lamonte M, Sequin R, Johnson KC, Prentice RL. Physical activity assessment: biomarkers and self-report of activity-related energy expenditure in the WHI. Am J Epidemiol. 2013; 177(6): 576-85. PubMed Central PMCID: PMC3626043.
43. Song X, Navarro SL, Diep P, Thomas WK, Razmpoosh EC, Schwarz Y, Wang CY, Kratz M, **Neuhouser ML**, Lampe JW. Comparison and validation of 2 analytical methods for measurement of urinary sucrose and fructose excretion. Nutr Res. 2013; 33(9):696-703. PubMed Central PMCID: PMC3775009.
44. Ochs-Balcom HM, Preus L, Wactawski-Wende J, Nie J, Johnson NA, Zakharia F, Tang H, Carlson C, Carty C, Chen Z, Hoffman T, Hutter CM, Jackson RD, Kaplan RC, Li L, Liu S, **Neuhouser ML**, Peters U, Robbins J, Seldin MF, Thornton TA, Thompson CL, Kooperberg C, Sucheston LE. Association of DXA-derived bone mineral density and fat mass with African ancestry. J Clin Endocrinol Metab. 2013; 98(4):E713-7. PubMed Central PMCID: PMC3615193.
45. Lit C-T, Monda KL, Taylor KC, Lange L, Demerath EW, Palmas W, Woiczynski MK, Ellis JC, Vitolins MZ, Liu Simin, Papanicolaou GJ, Irvin MR, Xue L, Griffin PJ, Nalls MA, Adeyemo A, Liu J, Li G, Ruiz-Narvaez EA, Chen WM, Chen F, Henderson BE, Millikan RC, Ambrosone CB, Strom SS, Guo X, Andrews JS, Sun YV, Mosley TH, Yanek LR, Shriner D, Haritunians T, Rotter JI, Speliotes EK, Smith M, Rosenberg L, Mychaleckyj J, Nayak U,

Spruill I, Garvery WT, Pettaway C, Nyante S, Bandera EV, Britton AF, Zonderman AB, Rasmussen-Torvik LJ, Chen YI, Ding J, Lohman K, Kritchevsky SB, Wei Z, Peyser PA, Kardia SLR, Kabagambe E, Broeckel U, Chen G, Zhou J, Wassertheil-Smoller S, **Neuhouser ML**, Rampersaud E, Psaty B, Kooperberg C, Manson JE, Kuller LH, Ochs-Balcom HM, Johnson KC, Sucheston L, Ordovas JM, Palmer JR, Haiman CA, McKnight B, Howard BV, Becker DM, Bielak LF, Liu Y, Allison MA, Grant SFA, Burke GL, Patel SR, Schreiner PJ, Borecki IB, Evans MK, Taylor H, Sale MM, Howard V, Carlson CS, Rotimi CN, Cushman M, Harris TB, Reiner AP, Cupples LA, North KE, Fox CS. Genome-wide Association of Body Fat Distribution in African Ancestry Populations Suggests New Loci. PLOS Genetics. 2013; 9(8):e1003681. PubMed Central PMCID: PMC3744443.

46. Prentice RL, Tinker LF, Huang Y, **Neuhouser ML**. Calibration of self-reported dietary measures using biomarkers: an approach to enhancing nutritional epidemiology reliability. Curr Atheroscler Rep. 2013; 15(9):353. PubMed Central PMCID: PMC3832356.
47. Geybels MS, **Neuhouser ML**, Stanford JL. Associations of tea and coffee consumption with prostate cancer risk. Cancer Causes Control. 2013; 24(5):941-8. PubMed Central PMCID: PMC3832054.
48. Imayama I, Alfano CM, **Neuhouser ML,** George SM, Smith AW, Baumgartner RN, Baumgartner KB, Bernstein L, Duggan C, Ballard-Barbash R, McTiernan A. Weight, inflammation, cancer-related symptoms and health-related quality of life among breast cancer survivors. Breast Cancer Res Treat. 2013; 140(1): 159-76. PubMed Central PMCID: PMC3772666.
49. *Cash SW, Beresford SAA, Vaughan TL, Heagerty PJ, Bernstein L, White E, and **Neuhouser ML.** Recent physical activity in relation to DNA damage and repair using the comet assay. J Phys Act Health. 2013 Apr 5. PubMed Central PMICD: PMC3844056.
50. Mason C, Alfano CM, Smith AW, Wang CY, **Neuhouser ML**, Duggan C, Bernstein L, Baumgartner KB, Baumgartner RN, Ballard-Barbash R, McTiernan A. Long-Term Physical Activity Trends in Breast Cancer Survivors. Cancer Epidemiol Biomarkers Prev. 2013; 22(6): 1153-1161. PubMed Central PMCID: PMC3688258.
51. *Cheng TY, King IB, Barnett MJ, Ambrosone CB, Thornquist, MD, Goodman GE, **Neuhouser ML**. Serum phospholipid fatty acids, genetic variation in myeloperoxidase and prostate cancer risk in heavy smokers: A gene-nutrient interaction in the Carotene and Retinol Efficacy Trial. Am J Epidemiol. 2013; 177(10): 1106-17. PubMed Central PMCID: PMC3649634.
52. Mossavar-Rahmani Y, Tinker LF, Huang Y, **Neuhouser ML**, McCann SE, Seguin RA, Vitolins MZ, David Curb J, Prentice RL. Factors relating to eating style, social desirability, body image and eating meals at home increase the precision of calibration equations correcting self-report measures of diet using recovery biomarkers: finding from the Women's Health Initiative. Nutr J. 2013; 12: 63. PubMed Central PMCID: PMC3658913.
53. Doherty JA, Sakoda LC, Loomis MM, Barnett MJ, Julianto L, Thornquist MD, **Neuhouser ML**, Weiss NS, Goodman GE, Chen C. DNA repair genotype and lung cancer risk in the beta-carotene and retinol efficacy trial. Int J Mol Epidemiol Genet. 2013; 4(1):11-34. PubMed Central PMCID: PMC3612452.
54. Miller JW, Beresford SAA, **Neuhouser ML**, Cheng TYD, Song X, Brown EC, Zheng Y, Rodriguez B, Green R, Ulrich CM. Homocysteine, cysteine and risk of incident colorectal cancer in the Women's Health Initiative Observational Cohort. Am J Clin Nutr. 2013; 97(4): 827-34. PubMed Central PMCID: PMC3607656.
55. Patterson RE, Colditz GA, Hu FB, Schmitz KH, Ahima RS, Brownson RC, Carson KR, Chavarro JE, Chodosh LA, Gehlert S, Gill J, Glanz K, Haire-Joshu D, Herbst KL, Hoehner CM, Hovmand PS, Irwin ML, Jacobs LA, James AS, Jones LW, Kerr J, Kibel AS, King IB, Ligibel JA, Meyerhardt JA, Natarajan L, **Neuhouser ML**, Olefsky JM, Proctor EK, Redline S, Rock CL, Rosner B, Sarwer DB, Schwartz JS, Sears DD, Sesso HD, Stampfer MJ, Subramanian SV, Taveras EM, Tchou J, Thompson B, Troxel AB, Wessling-Resnick M, Wolin KY, Thornquist MD. The 2011-2016 Transdisciplinary Research on Energetics and Cancer (TREC) Initiative: Rationale and Design. Cancer Causes Control. 2013; 24(4):695-704. PubMed Central PMCID: PMC3602225.

56. Stott-Miller M, **Neuhouser ML**, Stanford JL. Consumption of Deep-Fried Foods and Risk of Prostate Cancer. Prostate. 2013; 73(9): 960-9. PubMed Central PMCID: PMC3756514.
57. **Neuhouser, ML**, Platz EA, Till C, Tangen CM, Goodman PJ, Kristal A, Parnes HL, Tao Y, Figg WD, Lucia MS, Hoque A, Hsing AW, Thompson IM, Pollak M. Insulin-like growth factors and insulin-like growth factor-binding proteins and prostate cancer risk: results from the Prostate Cancer Prevention Trial. Cancer Prev Res. 2013; 6(2):91-9. PubMed Central PMCID: PMC3565024.
58. Jung S, Spiegelman D, Baglietto L, Bernstein L, Boggs DA, van den Brandt PA, Buring JE, Cerhan JR, Gaudet MM, Giles GG, Goodman G, Hakansson, N, Hankinson SE, Helzlsouer K, Horn-Ross PL, Inoue M, Krogh V, Lof, M, McCullough ML, Miller AB, **Neuhouser ML**, Palmer JR, Park Y, Robien K, Rohan TE, Scarmo S, Schairer C, , Schouten LJ, Shikany JM, Sieri S, Tsugane S, Visvanathan K, Weiderpass E, Willett WC, Wolk A, Zeleniuch-Jacquotte A, Zhang SM, Zhang X, Ziegler RG, Smith-Warner SA. Fruit and vegetable intake and risk of breast cancer by Hormone Receptor Status. J Natl Cancer Inst. 2013; 105 (3):219-36. PubMed Central PMCID: PMC3593764.
59. Villasenor A, Ballard-Barbash R, Ambs A, Bernstein L, Baumgartner K, Baumgartner R, Ulrich CM, Hollis BW, McTiernan A, **Neuhouser ML**. Associations of serum 25-hydroxyvitamin D with overall and breast cancer-specific mortality in a multiethnic cohort of breast cancer survivors. Cancer Causes Control. 2013; 24(4):759-67. PubMed Central PMCID: PMC3731052.
60. Zschäbitz S, *Cheng TY, **Neuhouser ML**, Zheng Y, Ray RM, Miller JW, Song X, Maneval DR, Beresford SA, Lane D, Shikany JM, Ulrich CM. B vitamin intakes and incidence of colorectal cancer: Results from the Women's Health Initiative Observational Study cohort. Am J Clin Nutr. 2013; 97(2):332-43. PubMed Central PMCID: PMC3545682.
61. *Runchey SS, Valsta LM, Schwarz Y, Wang C, Song X, Lampe JW, **Neuhouser ML**. Effects of low- and high-glycemic load on circulating incretins in a randomized clinical trial. Metabolism. 2013; 62(2): 188-95. PubMed Central PMCID: PMC3519963.
62. Velez Edwards DR, Naj AC, Monda K, North KE, **Neuhouser ML,** Magvanjav O, Kusimo I, Vitolins MZ, Manson JE, O'Sullivan MJ, Rampersaud E, Edwards TL. Gene-environment interactions and obesity traits among postmenopausal African-American and Hispanic women in the Women's Health Initiative SHARe study. Hum Genet. 2013; 132(3):323-36. PubMed Central PMCID: PMC3704217.
63. Mason C, Xiao L, Imayama I, Duggan CR, Foster-Schubert KE, Kong A, Campbell KL, Wang CY, Villasenor A, **Neuhouser ML**, Alfano CM, Blackburn GL, McTiernan A. Influence of diet, exercise and serum vitamin D on sarcopenia in postmenopausal women. Med Sci Sports Exerc. 2013; 45(4):607-14. PubMed Central PMCID: PMC3594522.
64. Toriola AT, Cheng TY, **Neuhouser ML,** Wener MH, Zheng Y, Brown E, Miller JW, Song X, Beresford SA, Gunter MJ, Claudill MA, Ulrich CM. Biomarkers of inflammation are associated with colorectal cancer risk in women but are not suitable as early detection markers. Int J Cancer. 2013; 132(11):2648-58. PubMed Central PMCID: PMC3609926.
65. *Cash SW, Ma H, Horn-Ross PL, Reynolds P, Canchola AJ, Sullivan-Haley J, Beresford SA, **Neuhouser ML**, Vaughan TL, Heagerty PJ, Bernstein L. Recreational physical activity and risk of papillary thyroid cancer among women in the California Teachers Study. Cancer Epidemiol. 2013; 37(1): 46-53. PubMed Central PMCID: PMC3543486.
66. *Runchy S, Pollak MN, Valsta LM, Coronado GD, Schwarz Y, Breymeyer K, Wang C, Wang CY, Lampe JW, **Neuhouser ML**. Glycemic load effects on fasting and postprandial serum glucose, insulin, IGF-1 and IGFBP3 in a randomized, controlled feeding study. Eur J Clin Nutr. 2012; 66(10):1146-52. PubMed Central PMCID: PMC3463643.
67. Birman BM, **Neuhouser ML,** Rosner B, Albanes D, Buring JE, Giles GG, Lan Q, Lee IM, Purdue MP, Rothman N, Severi G, Yuan JM, Anderson KC, Pollak M, Rifai N, Hartge P, Landgren O, Lessin L, Virtamo J, Wallace RB, Manson JE, Colditz GA. Prediagnosis biomarkers of insulin-like growth factor-1, insulin, and interleukin-

6 dysregulation and multiple myeloma risk in the Multiple Myeloma Cohort Consortium. Blood. 2012; 120(25): 4929-37. PubMed Central PMCID: PMC3525019.
68. *Villasenor A, Ballard-Barbash R, Baumgartner K, Baumgartner R, Bernstein L, McTiernan A, **Neuhouser ML.** Prevalence and prognostic effect of sarcopenia in breast cancer survivors: the HEAL Study. J Cancer Surviv. 2012; 6(4): 398-406. PubMed Central PMCID: PMC3747827.
69. Kuiper JG, Phipps AI, **Neuhouser ML,** Chlebowski RT, Thomson CA, Irwin ML, Lane DS, Wactawski-Wende J, Hou L, Jackson RD, Kampmann E, Newcomb PA. Recreational physical activity, body mass index, and survival in women with colorectal cancer. Cancer Causes Control. 2012; 23(12):1939-1948. PubMed Central PMCID: PMC3499635.
70. *Arem H, **Neuhouser ML,** Irwin ML, Cartmel B, Lu L, Risch H, Mayne ST, Yu H. Omega-3 and omega-6 fatty acid intakes and endometrial cancer risk in a population-based case-control study. Eur J Nutr. 2013; 52(3):1251-60. PubMed Central PMCID: PMC3548981.
71. Kristal AR, Till C, Tangen CM, Goodman PJ, **Neuhouser ML**, Stanczyk FZ, Chu LW, Patel SK, Thompson IM, Reichardt JK, Hoque A, Platz EA, Figg WD, VanBokhoven A, Lippman SM, Hsing AW. Associations of serum sex steroid hormones and 5-α-androstane-3α, 17β-diol glucuronide concentrations with prostate cancer risk among men treated with finasteride. Cancer Epidemiol Biomarkers Prev. 2012; 21(10):1823-32. PubMed Central PMCID: PMC3467348.
72. Dee A, Mc-Kean-Cowdin R, **Neuhouser ML**, Ulrich C, Baumgartner RN, McTiernan A, Baumgartner K, Alfano CM, Ballard-Barbash R, Bernstein L. DEXA measures of body fat percentage and acute phase proteins among breast cancer survivors: a cross-sectional analysis. BMC Cancer. 2012; 12: 343. PubMed Central PMCID: PMC3500231.
73. Duggan C, Wang CY, **Neuhouser ML,** Xiao L, Smith AW, Redding KW, Baumgartner RN, Baumgartner KB, Bernstein L, Ballard-Barbash R, McTiernan A. Associations of insulin-like growth factor and insulin-like growth factor binding protein-3 with mortality in women with breast cancer. Intl J Cancer. 2013; 132(5): 1191-200. PubMed Central PMCID: PMC3764990.
74. *Cheng TY, **Neuhouser ML**. Serum 25-hydroxyvitamin D, vitamin A and lung cancer mortality in the U.S. population: a potential nutrient-nutrient interaction. Cancer Causes Control. 2012; 23(9):1557-65. *Kong A, Beresford SA, Alfano CM, Foster-Schubert KE, **Neuhouser ML**, Johnson DB, Duggan C, Wang CY, Xiao L, Jeffery RW, Bain CE, McTiernan A. Self-monitoring and eating-related behaviors are associated with 12-month weight loss in postmenopausal overweight-to-obese women. J Acad Nutr Diet. 2012; 112(9):1428-1435. PubMed Central PMCID: PMC3432675.
75. Coronado GD, Ondelacy S, Schwarz Y, Duggan C, Lampe JW, **Neuhouser ML**. Recruiting underrepresented groups into the Carbohydrates and Related Biomarkers (CARB) cancer prevention feeding study. Contemp Clin Trials. 2012; 33(4):641-6. PubMed Central PMCID: PMC3516589.
76. **Neuhouser ML,** Howard B, Lu J, Tinker LF, VanHorn L, Caan B, Rohan T, Stefanick ML, Thomson CA. A low-fat dietary pattern and risk of metabolic syndrome in postmenopausal women: The Women's Health Initiative. Metabolism. 2012; 61(11):1572-81. PubMed Central PMCID: PMC3430820.
77. *Chang KT, Lampe JW, Schwarz Y, Breymeyer KL, Noar KA, **Neuhouser ML.** Low glycemic load experimental diet more satiating than high glycemic load diet. Nutr Cancer. 2012; 64(5):666-73. PubMed Central PMCID: PMC3762696.
78. **Neuhouser ML,** Manson JE, Millen A, Pettinger M, Margolis K, Jacobs ET, Shikany JM, Vitolins M, Adams-Campbell L, Liu S, LeBlanc E, Johnson KC, Wactawski-Wende J. The influence of health and lifestyle characteristics on the relation of serum 25-hydroxyvitamin D with risk of colorectal and breast cancer in postmenopausal women. Am J Epidemiol. 2012; 175(7):673-84. PubMed Central PMCID: PMC3324430.
79. Anderson GL, **Neuhouser ML**. Obesity and the risk for premenopausal and postmenopausal breast cancer. Cancer Prev Res. 2012; 5(4):515-21.

80. Alfano CM, Imayama I, **Neuhouser ML,** Kiecolt-Glaser JK, Smith AW, Meeske K, McTiernan A, Bernstein L, Baumgartner KB, Ulrich CM, Ballard-Barbash R. Fatigue, inflammation and ω-3 and ω-6 fatty acid intake among breast cancer survivors. J Clin Oncol. 2012; 30(12):1280-7. PubMed Central PMCID: PMC3341143.
81. Sakoda LC, Loomis MM, Doherty JA, Julianto L, Barnett MJ, **Neuhouser ML**, Thornquist MD, Weiss NS, Goodman GE, Chen C. Germ line variation in nucleotide excision repair genes and lung cancer risk in smokers. Intl J Mol Epidemiol Genet. 2012; 3(1):1-17. PubMed Central PMCID: PMC3316453.
82. Zhang X, Spiegelman D, Baglietto L, , Bernstein L, Boggs DA, van den Brandt PA, Buring JE, Gapstur SM, Giles GG, Giovannucci E, Goodman G, Hankinson SE, Helzlsouer KJ, Horn-Ross PL, Inoue M, Jung S, Khudyakov P, Larsson SC, Lof M, Mccullough ML, Miller AB, **Neuhouser ML**, Palmer JR, Park Y, Robien K, Rohan TE, Ross JA, Schouten LJ, Shikany JM, Tsugane S, Visvanathan K, Weiderpass E, Wolk A, Willett WC, Zhang SM, Ziegler RG, Smith-Warner SA. Carotenoid intake and risk of breast cancer defined by estrogen receptor and progesterone receptor status: a pooled analysis of 18 prospective cohort studies. Am J Clin Nutr. 2012; 95(3): 713-25. PubMed Central PMCID: PMC3278246.
83. Kong A, Beresford SA, Imayama I, Duggan C, Alfano CM, Foster-Schubert KE, **Neuhouser ML**, Johnson DB, Wang CY, Xiao L, Bain CE, McTiernan A. Adoption of diet-related self-monitoring behaviors varies by race/ethnicity, education, and baseline binge eating score among overweight-to-obese postmenopausal women in a 12-month dietary weight loss intervention. Nutr Res. 2012; 32(4):260-5. PubMed Central PMCID: PMC3350640.
84. Kushi LH, Doyle C, McCullough M, Rock CL, Demark-Wahnefried W, Bandera EV, Gapstur S, Patel AV, Andrews K, Gansler T; American Cancer Society 2010 Nutrition and Physical Activity Guidelines Advisory Committee (**ML Neuhouser**, member of committee). American Cancer Society Guidelines on nutrition and physical activity for cancer prevention: reducing the risk of cancer with healthy food choices and physical activity. CA Cancer J Clin. 2012; 62(1):30-67. *Not NIH funded, no PMC required (funded by the American Cancer Society).
85. **Neuhouser ML,** Schwarz Y, Wang C, Breymeyer K, Coronado C, Wang CY, Noar K, Song X, Lampe JW. A low-glycemic load diet reduces serum C-reactive protein and modestly increases adiponectin in overweight and obese adults. J Nutr. 2012; 142(2):369-74. PubMed Central PMCID: PMC3260063.
86. Horn LV, Tian L, Matthan NR, **Neuhouser ML**, Howard BV, Eaton CB, Snetselaar L, Lichtenstein AH. Dietary patterns are associated with disease risk among participants in the Women's Health Initiative Observational Study. J Nutr. 2012; 142(2):284-91. PubMed Central PMCID: PMC3260060.
87. **Neuhouser ML, ***Perrigue MM. The Role of Energy Balance for Cancer Prevention. Curr Nutr Rep. 2012; 1:8-15.

Articles in Press and Under Review

1. Freedman LS, Midthune D, Carroll RJ, Commins JM, Arab L, Baer DJ, Moler JE, Moshfegh AJ, **Neuhouser ML**, Prentice RL, Rhodes D, Spiegelman D, Subar AF, Tinker LF, Willett W, Kipnis V. Application of a new statistical model for measurement error to the evaluation of dietary self-report instruments. Epidemiology (submitted).
2. Barrington WE, Schenk JM, Etzioni R, Arnold KB , **Neuhouser ML**. Associations of obesity with prostate cancer risk differ between U.S. African-American and non- Hispanic white men in the Selenium and Vitamin E Cancer Prevention Trial (SELECT). JAMA (submitted).
3. Greenberg JA, Mason JE, Buijsse B, Wang L, Allison MA, **Neuhouser ML**, Tinker L, Waring ME, Isasi CR, Martin LW, Thomson CA. Chocolate-Candy Consumption and Three-Year Weight Gain Among Postmenopausal U.S. Women. Obesity (in press).
4. Brasky TM, Rodabough RJ, Liu J, Kurta ML, Wise LA, Orchard TS, Cohn DE, Belury MA, White E, Manson JE, **Neuhouser ML**. Long-chain ω-3 fatty acid intake and endometrial cancer risk in the Women's Health Initiative. Am J Clin Nutr (in revision).

5. Zubair N, Kooperberg C, Liu J, Di C, Peters U, **Neuhouser ML**. Genetic variation predicts serum lycopene concentrations in a multiethnic population of postmenopausal women. Journal of Nutrition (in press).
6. Matthan NR, Ooi EM, Van Horn L, **Neuhouser ML**, Woodman R, Lichtenstein AH. Plasma phospholipid fatty acid biomarkers of dietary fat quality and endogenous metabolism predict CHD risk: A nested case-control study within the Women's Health Initiative Observational Study. Hypertension (in press).
7. Freedman LS, Commins JM, Moler JE, Arab L, Baer DJ, Kipnis V, Midthune D, Moshfegh AJ, **Neuhouser ML**, Prentice RL, Spiegelman D, Subar AF, Tinker LF, Willett W. Pooled results from five validation studies of dietary self-report instruments using recovery biomarkers for energy and protein intake. Am J Epidemiol (submitted).

Other Published Scholarly Work (proceedings, policy reports, technical reports, invited topical reviews, book reviews, book chapters, editorials, letters to the editor)

1. **Neuhouser ML,** Diet and Nutrition, In: Cancer Survivorship (Ed, Julia Rowland) American Cancer Society (in press, 2015).
2. **Neuhouser ML**, Methodologies and Tools for Dietary Intake Assessment, In: (Eds, Berdanier CD, Dwyer JT, Heber D) Handbook of Nutrition and Food, CRC Press, Boca Raton, London, New York, 2014.
3. **Neuhouser ML,** Science to Clinical Practice: Lost Opportunities in Obesity, In: (Eds, Srivastava, Maksymowicz, Lopaczynski) Lost in Translation: Barriers to Incentives for Translational Research in Medical Sciences, World Scientific Publishing Co, New Jersey, 2014.
4. Mossavar-Rahmani Y, Tinker LF, **Neuhouser ML**, Hyang Y, Shaw P, Beasley JM, Di C, Zheng W, Li W, Johnson K, Prentice RL, Women's Health Initiative Dietary Modification Trial: Update and Application of Biomarker Calibration to Self-Report Measures of Diet and Physical Activity, In: (Ed, N. Balakrishnan) Methods and Applications of Statistics in Clinical Trials, Volume 1: Concepts, Principles, Trials, and Designs. John Wiley & Sons, Inc., Hoboken, New Jersey, 2013.

Beth Ogata

Peer-Reviewed Research Articles

1. **Ogata BN**, Hayes D. Position of the Academy of Nutrition and Dietetics: nutrition guidance for healthy children ages 2 to 11 years. J Acad Nutr Diet. 2014;114(8):1257-1276.
2. Frazier DM, Allgeier C, Homer C, et al. Nutrition management guideline for maple syrup urine disease: an evidence- and consensus-based approach. Mol Genet Metab. 2014;112(3):210-217.
3. Camp KM, Parisi MA, Acosta PB, et al. Phenylketonuria Scientific Review Conference: state of the science and future research needs. Mol Genet Metab. 2014;112(2):87-122.
4. Singh RH, Rohr F, Frazier D, et al. Recommendations for the nutrition management of phenylalanine hydroxylase deficiency. Genet Med. 2014;16(2):121-131.

Other Published Scholarly Work (proceedings, policy reports, technical reports, invited topical reviews, book reviews, book chapters, editorials, letters to the editor)

1. **Ogata BN.** Developmental Disabilities. ADA's Pediatric Nutrition Care Manual. American Dietetic Association. 2010, 2011, 2012, 2013.
2. Trahms CM, **Ogata BN.** Metabolic Disorders. ADA's Pediatric Nutrition Care Manual. American Dietetic Association. 2010, 2011, 2012.
3. Feucht S, **Ogata B**. Nutrition in Childhood. In: Mahan K, King K, eds. Krause's Food, Nutrition & Diet Therapy, 13th ed. Elsevier. 2012.
4. Trahms CM, **Ogata BN**. Medical Nutrition Therapy for Genetic Metabolic Disorders. In: Mahan K, King K, eds. Krause's Food, Nutrition & Diet Therapy, 12th ed. Elsevier. **2008**. (pages 1141-1169); 13th ed. Elsevier, 2012.

5. **Ogata BN**, Lucas B, Feucht S. Normal nutrition from infancy through adolescence. In: Samour PQ, Helm KK, eds. Handbook of Pediatric Nutrition, 3rd ed. **2005**. (pages 107-130); 4th ed **2012**.
6. **Ogata BN**, Feucht SA. Assessment of Growth: Part 2 – interpretation of growth. Nutrition Focus 27(1). 2012.

Jennifer Otten

Peer-Reviewed Research Articles

1. **Otten JJ**, Hekler EB, Krukowski RA, Buman MP, Saelens BE, Gardner CD, King AC. Food Marketing to Children Through Toys: Response of Fast Food Restaurants to the First U.S. Toy Ordinance. AJPM. 2012; 42 (1): 56-60.
2. McClain AD, **Otten JJ**, Hekler E, Gardner CD. Adherence to a Low-Fat versus Low-Carbohydrate Diet Differs by Insulin Resistances Status. Diabetes, Obesity, and Metabolism. 2012. Jul 25. doi: 10.1111/j.1463-1326.2012.01668.x. [Epub ahead of print]
3. Buman MP, Winter SJ, Sheats JL, Hekler EB; **Otten JJ**, Grieco LA, King AC. The Stanford Healthy Neighborhood Discovery Tool: A Computerized Audit Tool for Community Residents to Assess Neighborhood Barriers to and Facilitators of Active Living. AJPM. 2013; 44(4):e41-e47.
4. Hekler EB, Buman MP, **Otten JJ**, Castro C, Grieco L, Marcus B, Friedman R, Napolitano, MA, King AC. Determining who responds better to a computer-delivered vs. human-delivered physical activity intervention: Results from the Community Health Advice by Telephone (CHAT) trial. IJBNPA. 2013. 10:109. doi:10.1186/1479-5868-10-109.
5. Gardner CG, Whitsel LP, Thorndike AN, Marrow M, **Otten JJ**, Foster GD, Carson JS, Johnson RK. Food and Beverage Environment and Procurement Policies for Healthier Work Environments. Nutrition Reviews. 2014:72;390-410.
6. Winter SJ, Buman MP, Sheats JL, Hekler EB, **Otten JJ**, Baker C, Cohen D, Butler B, King AC. Harnessing the potential of older adults to measure and modify their environments: Long-term successes of the Neighborhood Eating and Activity Advocacy Team (NEAAT) study Translational Behavioral Medicine. 2014:22;1-2.
7. **Otten JJ**, Saelens BE, Kapphahn KI, Hekler EB, Buman MP, Goldstein BA, Krukowski RA, O'Donohue LS, Gardner CD, King AC. Impact of San Francisco's Toy Ordinance on Restaurants and Children's Food Purchases, 2011-2012. Prev Chronic Disease. 2014:11;14-26.
8. **Otten JJ**, Dodson EA, Fleischhacker S, Siddiqi S, Quinn E. Getting research to the policy table: A qualitative study with public health researchers on engaging with policymakers. (In review, Prev Chron Dis)
9. **Otten JJ,** Hekler E, Buman MP, Saelens BE, Krukowski RA, Gardner C, King AC. Response of Fast Food Restaurants to the First U.S. Toy Ordinance: Year One Results. (In preparation)
10. **Otten JJ**, Salvatore AL, Cheyne A, O'Donohue L, Henriksen L, King AC. Newspaper coverage and framing of toy giveaway legislation in California. (In preparation)

Other Published Scholarly Work (proceedings, policy reports, technical reports, invited topical reviews, book reviews, book chapters, editorials, letters to the editor)

1. **Policy Brief,** Food Marketing: Using Toys to Market Children's Meals, Robert Wood Johnson Foundation, 2014, http://healthyeatingresearch.org/research/food-marketing-using-toys-to-market-childrens-meals/ (posted August 2014) (invited)
2. **Co-author with UW MPH student Jamie Bachaus,** Healthy Nutrition: From Farm to Fork, U.S. President's Council on Fitness, Sports, and Nutrition Elevate Health article (invited)
3. Gardner, CD, **Otten JJ**. User's Guide to the Comprehensive Assessment of Population Approaches to Improve Lifestyle Behaviors, online commentary on Population approaches to improve diet, physical

activity, and smoking habits: a scientific statement from the American Heart Association. Circulation. 2012: published online before print August 20, 2012, 10.1161/CIR.0b013e318260a20b. http://my.americanheart.org/professional/General/User-Guide-to-the-Comprehensive-Assessment-of-Population-Approaches-to_UCM_442117_Article.jsp, August 20, 2012.

4. Quinn E, **Otten JJ**, Johnson DB. University of Washington Center for Public Health Nutrition, UW Fresh Bucks Evaluation: 2013, January 2014.
5. **Otten JJ**, Bachaus J, Hulbrock E. University of Washington Center for Public Health Nutrition, Evaluating Washington State's Healthy Nutrition Guidelines: Report from a Baseline Evaluation of Executive Order 13-06, September 2014.
6. Hulbrock E, Quinn E, **Otten JJ**, Johnson DB. University of Washington Center for Public Health Nutrition, UW Fresh Bucks Evaluation: 2014, January 2015.

Jisun Paik

Peer-Reviewed Research Articles

1. **Paik J**, Fierce Y, Treuting PM, Brabb T, Maggio-Price L. High fat diet induced obesity exacerbates inflammatory bowel disease in genetically susceptible Mdra1-/- male mice. J. Nutr 143:1240 -1247, 2013.
2. Hsu C, **Paik J**, Treuting P, Seamons A, Meeker S, Brabb T, Maggio-Price L. Murine norovirus -2 infection does not alter Helicobacter-induced inflammatory bowel disesase in $Il10^{-/-}$ mice. Comp Med 64:256-263, 2014.
3. **Paik J**, Haenisch M, Muller CH, Goldstein AS, Arnold S, Isoherranen N, Brabb T, Treuting PM, and Amory JK. Inhibition of retinoic acid biosynthesis by WIN 18,446 markedly suppresses spermatogenesis and alters retinoid metabolism in mice. J Biol Chem, 289:15104-15117, 2014.
4. Meeker S, Seamons A, **Paik J**, Treuting PM, Brabb T, Grady WM, and Maggio-Price L. Increased dietary vitamin D suppresses MAPK signaling, colitis and colon cancer. Cancer Res. 74:4398-4408, 2014.

Michael Rosenfeld

Peer-Reviewed Research Articles

1. Campbell, L.A., Puolakkainen, M., Lee, A., **Rosenfeld, M.**, Garrigues, H.J., Kuo C.C., Chlamydia pneumoniae uses the LOX-1 receptor for infection of endothelial cells: A mechanism of atherogenesis. Microbes and Infection 2012 Jan;14(1):43-9.
2. Campen, M.J., Lund, A., **Rosenfeld, M**. Mechanisms linking traffic-related air pollution and atherosclerosis. Curr Opin Pulm Med 2012; 18:155-160.
3. Chen, H., Ricks, J., **Rosenfeld, M.E.**, Kerwin W.S. Progression of experimental lesions of atherosclerosis: Assessment by kinetic modeling of black-blood dynamic contrast-enhanced MRI. Magnetic Resonance in Medicine 2012. (In Press)
4. Deuell, K., Callegari, A., Giachelli, C.M., **Rosenfeld, M.E.**, Scatena, M. RANKL enhances macrophage paracrine pro-calcific activity in high phosphate-treated smooth muscle cells: dependence on IL-6 and TNF-α J. Vascular Res 2012;49(6):510-21.
5. Yin, F., Lawal, A., Ricks, J., Fox, J.R., Larson, T., Navab, M., Fogelman, A.M., **Rosenfeld, M.E.**, Araujo, J.A. Diesel Exhaust Induces Systemic Lipid Peroxidation and Development of Dysfunctional Pro-oxidant and Pro-inflammatory HDL. Arterioscler Thromb Vasc Biol. 2013 Jun;33(6):1153-61. doi: 10.1161/ATVBAHA.112.300552. Epub 2013 Apr 4. PubMed PMID: 23559632.
6. Campbell LA, Lee AW, **Rosenfeld ME**, Kuo CC. Chlamydia pneumoniae induces expression of pro-atherogenic factors through activation of the lectin-like oxidized LDL receptor-1. Pathog Dis. 2013 Jul 2. doi: 10.1111/2049-632X.12058. [Epub ahead of print] PubMed PMID: 23821487.

7. **Rosenfeld, M.E.** Inflammation and atherosclerosis: direct versus indirect mechanisms. Current Opinion in Pharmacology. 2013 Apr;13(2):154-60. doi: 10.1016/j.coph.2013.01.003. Epub 2013 Jan 26. Review. PubMed PMID: 23357128.
8. Liu Y, Chien WM, Medvedev IO, Weldy CS, Luchtel DL, **Rosenfeld ME**, Chin MT. Inhalation of diesel exhaust does not exacerbate cardiac hypertrophy or heart failure in two mouse models of cardiac hypertrophy. Part Fibre Toxicol. 2013 Oct 5;10:49. doi: 10.1186/1743-8977-10-49. PubMed PMID:24093778.
9. Callegari A, Coons ML, Ricks JL, Yang HL, Gross TS, Huber P, **Rosenfeld ME**, Scatena M. Bone marrow- or vessel wall-derived osteoprotegerin is sufficient to reduce atherosclerotic lesion size and vascular calcification. Arterioscler Thromb Vasc Biol. 2013 Nov;33(11):2491-500. doi: 10.1161/ATVBAHA.113.301755. Epub 2013 Aug 29. PubMed PMID: 23990207.
10. Callegari A, Coons ML, Ricks JL, **Rosenfeld ME**, Scatena M. Increased Calcification in Osteoprotegerin-Deficient Smooth Muscle Cells: Dependence on Receptor Activator of NF-κB Ligand and Interleukin 6. J Vasc Res. 2014 Mar 7;51(2):118-131. [Epub ahead of print] PubMed PMID: 24642764.
11. Teng B, Smith JD, **Rosenfeld ME**, Robinet P, Davis ME, Morrison RR, Mustafa SJ. A1 adenosine receptor deficiency or inhibition reduces atherosclerotic lesions in apolipoprotein E deficient mice. Cardiovasc Res. 2014 Apr 1;102(1):157-65. doi: 10.1093/cvr/cvu033. Epub 2014 Feb 12. PubMed PMID: 24525840.
12. Campbell, L.A., and **Rosenfeld, M.E.** Persistent C. pneumoniae infection in atherosclerotic lesions: rethinking the clinical trials. Frontiers in Cellular and Infection Microbiology 2014 Mar 21;4:34. PubMed PMID: 24711989.
13. Cabbage, S., Ieronimakis, N., Preusch, M., Lee, A., Ricks, J., Janebodin, K., Hays, A., Wijelath, E.S., Reyes, M., Campbell, L.A., **Rosenfeld, M.E.** Chlamydia Pneumoniae Infection of Lungs and Macrophages Indirectly Stimulates the Phenotypic Conversion of Smooth Muscle Cells and Mesenchymal Stem Cells: Potential Roles in Vascular Calcification and Fibrosis. Pathog Dis. 2014 May 15. doi: 10.1111/2049-632X.12185. [Epub ahead of print]. PubMed PMID: 24833344.
14. Campbell LA, **Rosenfeld ME**. Persistent C. pneumoniae infection in atherosclerotic lesions: rethinking the clinical trials. Front Cell Infect Microbiol. 2014 Mar 21;4:34. doi: 10.3389/fcimb.2014.00034. eCollection 2014
15. **Rosenfeld, M.E.** Macrophage Proliferation in Atherosclerosis: A Historical Perspective. ATVB Commentary on Robbins, CS. et al., Local proliferation dominates lesional macrophage accumulation in atherosclerosis. Arterioscler Thromb Vasc Biol. 2014 Oct;34(10):e21-2. doi: 10.1161/ATVBAHA.114.303379. Epub 2014 Aug 28. PubMed PMID: 25169935.

Articles in Press

1. Preusch, M.R., Ieronimakis, N., Wijelath, E.S., Callegari, A., Bea, F., Reyes, M., van Ryn, J., **Rosenfeld, M.E.** Dabigatran etexilate selectively retards the initiation and progression of atherosclerotic lesions and Inhibits the expression of Oncostatin M in apolipoprotein E deficient mice.
2. Weldy, C.S., Zelniker, T.,Errol S. Wijelath, E.S., **Rosenfeld, M.E.**, Blessing, E., Bea, F., Konstandin, M.H., Katus, H.A., Preusch, M.R. Plasma Oncostatin M is elevated in certain female patients with pulmonary arterial hypertension.
3. Campbell, L.A. and **Rosenfeld, M.E.** Vascular Responses to Chlamydia Pneumoniae Infection.

Appendix H: Graduate Program Applicant, Enrollment, and Graduation Statistics by Admissions Year

Admissions Year	Applied For	Admissions Process			Student Progress		
		Applied	Accepted	Enrolled	Graduated	In Progress	Withdrew
2005	MPH	12	9	4	4	-	-
	MS	35	18	7	5	-	2
	PhD	15	9	4	2 + 1 w/MS	-	1 (1st qrtr)
2006	MPH	24	15	5	4	-	1
	MS	30	14	6	6	-	-
	PhD	25	13	5	2	-	3 (1 - 1st qrtr)
2007	MPH	20	14	7	7	-	-
	MS	39	18	5	5	-	-
	PhD	18	9	2	1	-	1
2008	MPH	24	16	6	6	-	-
	MS	45	13	6	6	-	-
	PhD	11	4	0	-	-	-
2009	MPH	32	16	8	8	-	-
	MS	55	13	5	5	-	-
	PhD	13	3	1	-	-	1 (1st qrtr)
2010	MPH	35	13	7	6	-	1
	MS	88	25	9	8	-	1
	PhD	18	3	0	-	-	-
2011	MPH	30	19	9	9 (2 w/ MS)	-	-
	MS	77	29	13	11 (3 w/ MPH)	1	1
	PhD	19	3	0	-	-	-
2012	MPH	47	24	4	4	-	-
	MS	71	16	10	7	2	1 (1st qrtr)
	PhD	27	8	3	1 w/ MS	2	-
2013	MPH	51	24	8	-	8	-
	MS	74	19	8	-	7	1
	PhD	19	1	0	-	-	-
2014	MPH	50	20	6	-	6	-
	MS	87	23	10	-	10	-
	PhD	27	2	0	-	-	-

Appendix I: Dissertation and Thesis Projects – Students Graduating Summer 2005 through Autumn 2014

Doctor of Philosophy

Li	Yu-I	2005	Autumn	Is Tanshinone IIA, the Active Ingredient of Chinese Herbal Supplement Danshen, Really Beneficial? A Study from Cell and Animal Perspectives
Peterson	Sabrina	2005	Autumn	Effects of Apiaceous Vegetable Constituents on CYP1A2 Activity in Humans and a Yeast Expression System: Implications for CYP1A2-Activated Procarcinogens
Bennett	Brian J	2006	Winter	Chondroplastic Conversion and Calcification of Advanced Atherosclerotic Lesions: The Impact of Bone Regulatory Proteins and Diet
Chen	Yu	2006	Autumn	Effects of Isoflavones and 17 Beta-estradiol on Gene Methylation and Gene Expression in Human Colon Cancer Cell Lines
Gonzalez	Alejandro Jose	2006	Autumn	Boron and Zinc: Measurement and Association with Prostate Cancer
Chang	Jyh-Lurn	2007	Spring	DNA Damage and Repair: Fruit and Vegetable Effects in a Feeding Trial
Funderbunk	Leslee Karen	2007	Spring	Attenuation of exertional muscle damage with a nutritional supplement
Averill	Michelle Marie	2007	Summer	Effects of Pomegranate juice and atherosclerosis: Studies in Early and Advanced Stages of Disease
Thompson	Olivia Marie	2007	Autumn	Risk and Protective Factors for Barrett's Esophagus
Lee	Jung-Ting	2008	Autumn	The role of macrophage-derived MMP12 in diet-induced obesity
Pamir	Nathalie	2009	Spring	The Role of TNF Alpha Receptors in Diet induced Obesity
Kong	Angela	2010	Spring	Self-Monitoring and Eating-Related Behaviors Associated with 12 month Weight Change among Postmenopausal Sedentary Overweight/Obese Women in a Lifestyle Behavior Change Trial
Li	Fei	2010	Spring	The relationship between cruciferous vegetables and human gut microbiota
Takata	Yumie	2010	Autumn	Selenium, selenoenzymes and the risk of colorectal and esophageal cancers
Navarro	Sandi	2011	Summer	Cruciferous vegetable feeding and biomarkers of systemic inflammation: Effects of GST genotype in a controlled feeding trial in humans
Goh	Jorming	2012	Autumn	Effects of Voluntary Running on Inflammation and Tumor Progression in Mice
Perrigue	Martine Marie	2013	Winter	Eating Frequency, Disease-Related Biomarkers and Appetite

Master of Science

Biallias	Irene C	2005	Autumn	Apolipoprotein AV and Its Role in the Metabolic Syndrome
Hood	Christina Marie	2006	Winter	Comparison of Biological and Non-biological Out-comes Associated with the Fasting Versus Modified Fasting Protocol Used to Initiate the Ketogenic diet at Seattle Children's Hospital
Boynton	Alanna M	2006	Spring	Healthful Eating Patterns and Immune Function in Postmenopausal Women
Fischer	Karen V	2006	Spring	Evaluation of the Significance of Body Mass Index in Determining Lipid Responsiveness to Low Fat Diets
Folsom	Bethany J	2006	Spring	Effects of Body Weight Change on C-Reactive Protein Levels in Sedentary Adults After Exercise Intervention
McKean	Kelly Nichole Gray	2006	Spring	Effects of Experiential Nutrition Education in Pediatric Renal Transplant Patients
Messner	Jacqueline T	2006	Spring	Physical and Cognitive Status of Children Born to Women with Phenylketonuria
Inoue	Maki	2006	Summer	Impact of Admission Body Weight and Pretransplant Comorbidities on Outcomes of Autologous Peripheral Blood Stem Cell Transplantation
Brown	Rose M	2006	Autumn	Plasma Carotenoids and Vitamin C and Risk of Fibroadenoma in Women of Shanghai
Paves	Heather Jo	2006	Autumn	An Assessment of Influences and Barriers to Healthin a Multiethnic Sample of Parents and Teens to Inform the Development of Resources on Healthy Lifestyles
Yang	Shih-Hui	2006	Autumn	The Comparative Effects of Exogenous Antioxidants and Endogenous Antioxidants in Protection from Cytotoxicity Induced by Oxidized Low Density Lipoprotein in Macrophages
Mortensen	Melissa J	2007	Winter	Maternal stress and other characteristics of families with children fed homemade formula by gastrostomy tube
Atkinson	Benjamin Elmendorf	2007	Spring	Blood lipid response to a low-fat dietary intervention for two years is altered in the presence of insulin resistance.
Bobcek	Chelsey Krista	2007	Spring	PARP-1: Friend or Foe in the Progression of Atherosclerosis
Qin	Ruiwen	2007	Spring	Iron Status Manipulation Alters Cholesterol Uptake and Atherosclerotic Gene Expression in Mouse Macrophages
Saigusa	Azusa	2007	Spring	The Effects of Behavioral Intervention on Readiness to Change Fruit and Vegetable Intake: The Seattle 5 A DAY Worksite Program
Thomson	Kathryn D	2007	Spring	Demographic and Health-Related Characteristics of Extreme Supplement Users in the Vitamins And Lifestyle Study
Hooper	Laura Elizabeth	2007	Summer	Weight Cycling is Associated with Altered Hormonal and Metabolic Profiles in Postmenopausal Women

Lilley	Sonya B	2007	Summer	Reliability and Validity Testing of a Brief Dietary Assessment Tool for Use in the Policy Legislation and Nutrition (PLAN) Project in Washington State Public Middle Schools
Guyman	Laura Ann	2007	Autumn	Alkylresorcinols as a Biomarker of Whole-Grain Intake in a U.S. Population
Antvelink	Colleen	2008	Winter	Effect of GSTM1 Polymorphisms on the Excretion of Urinary Isothiocyanates Following Continuous Cruciferous Vegetable Consumption in a Randomized Controlled Cross-Over Study
Supplee	Joy D	2008	Winter	Effects of soda consumption on bone mineral density in Native American women: Results from theEARTH cohort study
Torkelson	Roseann H	2008	Spring	Assessment of Parenting Stress Related to Management and Treatment of a Child with Medium Chain Acyl-CoA Dehydrogenase Deficiency Identifiedby Newborn Screening
Chiu	Yi-Ching	2008	Autumn	A Possible Role of Retinol-Binding Protein (RBP) in Obesity-Related Adipose Tissue Macrophage Accumulation
Jahn	Paula E	2008	Autumn	The Role of Retinol-Binding Protein in Insulin Resistance and Non-Alcoholic Fatty Liver Disease
Hsiao	Shuohung	2009	Winter	The Role of Sphingosine 1-Phosphate in regulating NADPH Oxidase in Vascular Smooth Muscle Cells
Knierim	Elizabeth Kay	2009	Spring	Special diets to treat autism: Correlation of dietuse with gastrointestinal illnesses in children with autism spectrum disorders.
Perrigue	Martine Marie	2009	Summer	Added Soluble Fiber Enhances the Satiating Power of Low-Energy-Density Liquid Yogurts
Benado	Moz	2009	Autumn	The assessment of appetite and ad-libitum calorie intake in humans
Doull	Allison Marisa	2009	Autumn	Estimation of Energy Needs for Critically Ill Patients
Hoge	Erin Michelle	2009	Autumn	Assessing the Prognostic Value of Plasma Vitamin C Status of Medicine Intensive Care Unit Patients
Kellogg	Kimberly Fahey	2009	Autumn	Exploring the role of PARP-1 in Obesity Related Inflammation
Waliczek	Jaime J	2009	Autumn	Association of Energy-Dense Diets with Metabolic and Cardiovascular Health in Native American Adults
Marshburn-Eliason	Heather Susan	2010	Winter	Assessing clinical outcomes of ICU patients who failed to attain target caloric goal
Nestleroad	Maria	2010	Spring	The Association of BMI with Beverage Consumption and Fast Food Consumption among Hispanics with Pre-Diabetes and Type 2 Diabetes in the Yakima Valley
McLain	Julia Ellen	2010	Summer	The rising cost of healthy food in Seattle, 2004 to 2009
Hughes	Chandra Deonna	2010	Autumn	The BALANCE Study (Bioengineering Approaches to lifestyle Activity and Nutrition Continuous Engagement): Using the Design-Feedback Iterative Cycle to Improve Methods for Measuring Energy Intake via
Obara	Mari	2011	Winter	Serum 25-Hydroxyvitamin D Levels in Children with Phenylketonuria
Cheng	Carissa Faith	2011	Spring	The Zinc Protoporphyrin to Heme Ratio of Preterm and High Risk Infants

Pullar	Barbara J	2011	Summer	Association of Types of Physical Activity on Regional Body Composition in Normal and Overweight/Obese Adults
Snively	Heather L	2011	Summer	The BALANCE Study (Bioengineering Approaches for Lifestyle Activity and Nutrition Continuous Engagement): Developing and testing a novel devicefor measuring energy balance in real-time
Acheson	Molly Amy	2011	Autumn	Differing Levels of Food Reward in Rats Fed Diets of Various Fat Content During Adolescence
Myhre	Rachel Jolynn	2011	Autumn	Plasma Ghrelin Levels in Humans and the Influence of Restrained Eating Behaviors on Caloric Intake
Razmpoosh	Elena C	2011	Autumn	Urinary sucrose and fructose as a biomarker of sugar exposure in a controlled feeding study
Neilson	Charlotte H	2012	Winter	Clinical outcomes following pre- and post-operative Vitamin D supplementation in Roux-en-Y Gastric Bypass patients
Enriquez	Erin	2012	Summer	A TWIN STUDY OF THE RELATION BETWEEN AGE AT DIETING ONSET AND TO ADULT BMI AND DIETING BEHAVIORS
Bailey	Sarah E	2012	Autumn	Restricted eating behavior in children with PKU and HPA
Farnum	Kailee L	2012	Autumn	Self-efficacy of monitoring eating choices associated with fruit and vegetable intake, BMI and autonomy in the MOVE'M study.
Kowatch	Jamie L	2012	Autumn	Relationship between aerobic fitness and academic achievement in Seattle secondary school children
Peterson	Kelly R	2013	Winter	Prevalence of Anemia and Use of Red Cell Distribution Width as a Predictive Tool in a Bariatric Surgery Population
Wood	Amanda C	2013	Spring	Acquired copper deficiency post Roux-en-Y gastric bypass surgery: A retrospective review
Parker	Allison Kateri	2013	Summer	Chronic stress alters serum lipids: effects due to "stress eating" versus metabolic changes
Yoder	Seth C	2013	Summer	Metabolism of Plant Lignans by Human Intestinal Bacteria
Zimmerman	Marc Kenton	2013	Summer	Obtaining Nutritional Information for Dietary Assessment
Ahern	Kelly Choi	2013	Autumn	Plasma 25-hydroxyvitamin D3 response to vitamin D supplementation in obese and non-obese men and women
Kim	Jessica Erin	2013	Autumn	Predictors of Responsiveness to Vitamin D Supplemtaion and Outcomes Assessment in Patients Undergoing Roux-en-Y Gastric Bypass Surgery
Tobias	Laura E	2013	Autumn	A comparison of the effect of consuming a fructose-, glucose-, or aspartame-sweetened beverage on ad libitum caloric intake
Barton	Sally	2014	Winter	Metabolome response to glycemic load in a randomized, controlled, crossover feeding trial inhumans
Hwang	Liang-Dar	2014	Winter	Association between objective measurement of walking activity and neighborhood walkability
Edwards	Melissa Jane	2014	Spring	Comparison of Gut Microbial Community in Infants and Toddlers with and without Phenylketonuria
Freeman	Katherine O	2014	Summer	The Cost of Healthy Foods in Seattle, WA: Price trends from 2004-2014

Karunanithi	Srilekha	2014	Summer	Differential effects of fatty acids on an in vitro model of hepatocyte steatosis
Heninger	Anna K	2014	Autumn	Red Cell Distribution Width and Fall Events in Older Adults
Ramsdell	Carrie R	2014	Autumn	An examination of nutritional outcomes from an intensive outpatient pediatric feeding program for children with feeding difficulties
Wang	Ge	2014	Autumn	Association between Obstructive Sleep Apnea and Obesity in a Pediatric Population
Zheng	Qianxiong	2014	Autumn	Adherence to Micronutrient Supplementation in Bariatric Patients

Master of Public Health

Setyaadmadja	Lisa	2005	Summer	Measuring Integration Using Social Network Analysis: King County STEPS to a Healthier U.S.
Kumagai	Shoko	2005	Autumn	Towards Healthier Meals and Snacks at King County Child Care: "Fuel & Play the Healthy Way" Child Care Menu Evaluation
Lund	Anne E	2005	Autumn	Evaluation of a Lesson Plan for Child Care Providers on Television Viewing and Physical Activity Development
Vendeland	Susan Carol	2005	Autumn	Forgiveness, Attachment and Diabetes Self-care: Patient Perspectives
Burm	Jaclyn M	2006	Winter	Impact of the Take Charge of Your Health Senior Nutrition Education Program
Larson	Acacia N	2006	Winter	ClicKit! To Reduce Television in Early Childhood: Evaluation of a Pilot Intervention with Preschool-aged Children and their Families
Leng	Kirsten Harris	2006	Winter	Assessing Potential Adolescent Use of Dance Simulation Games for Physical Activity
Yarbrough	Martha Jane	2006	Winter	The Moses Lake Youth Wellness Team: A Case Study
Kao	Janice	2006	Summer	Analysis of Washington State School District Nutrition and Fitness Policies
Turner	Shannon Elizabeth	2006	Summer	Preferences of Samoan and Tongan Americans in Community Health Promotion
Roach	Clairessa	2007	Winter	The Impact of Breastfeeding Social Marketing on Policy and Environments in Worksites and ChildcareSites
Jones	Gwyneth I	2007	Spring	Barriers to Change in the Seattle 5 a Day Worksite Intervention Program
Nhan	Sukwan	2007	Spring	Evaluation of the Ethnic Foods and Education Project in Seattle Public Schools
Podrabsky	Mary K	2007	Spring	Food Form as a Determinant of Fruit and Vegetable Selection from an Elementary School Salad Bar
Sakamoto	Robyn R	2007	Spring	Weight Change and Diet Costs in Middle-Aged Adults: Is Less More?
Cheung	Matthew Brian	2007	Summer	Evaluation of nutritional policies regarding vending machines in 2 high schools in Washington State
Monsivais	Pablo	2007	Summer	The low monetary cost of energy dense foods and diets in Seattle, Washington
Framson	Celia C	2008	Summer	Development and Validation of the Mindful Eating Questionnaire
Kirkpatrick	Shannon Lea	2008	Summer	The Policy Process in Trails Initiatives: the Healthy Communities Moses Lake Experience

Russell	Joanna C	2008	Summer	Change in dietary intake in response to the Dietary Modification Intervention is associated with change in physical activity among postmenopausal women in Women's Health Initiative
Hall	Emily O	2009	Spring	Obesity Guidelines in Practice at Northwest Pediatric Center of Lewis County
Bollen	Carley A	2009	Summer	Effects of Community Characteristics on Access to and Success of Farmers Markets in Washington State
Gilliland	Stacy J	2009	Summer	An Examination of the School Wellness Policy Development Process in Washington State
Coulter	Sara Denise	2009	Autumn	Access to Healthy and Less Healthy Food Options Ina Low-Income, Racially Diverse Seattle Neighborhood
Nguyen	Kimberly	2009	Autumn	Evaluation of Food Quality at an Emergency Food Pantry
Tucci	Jennifer J	2009	Autumn	Fast Food Challenge: Impact of a WIC nutrition education program accompanying menu labeling legislation
Gregory	Nila N	2010	Winter	Breast milk feeding practices of singletons and twins: initiation, duration, exclusivity, and factors associated with choice and achievement
Timme	Kristi R	2010	Spring	Evaluation of a Multicultural Diabetes Education Program in Seattle, Washington
Winne	Katherine A	2010	Spring	Comparing Daily Sodium Intake Recommendations withSodium Content in Meals Available at Chain Restaurants
Khawaja	Eleza Nadia	2010	Summer	The Search for Affordable Nutrient Rich Foods: A Comparison of supermarket food prices in Seattle/King County
Lyle	Meghan Colleen	2010	Autumn	Evaluating the fast food environment: the cost of kilocalories in King County, WA
Murphy	Kate M	2010	Autumn	Current nutrition practices and perceived barriersto increasing nutrition requirements in school-age child care settings
Pirotin	Shauna Michelle	2010	Autumn	The Reliability and Validity of a Survey Instrument Measuring Screen Time in 4th and 5th Grade Children and Family Food Purchases of Heavily Advertised Foods
Chen	Joyce	2011	Winter	Nutrient profile of foods in Washington State Improving diet quality for WIC participants
Higgins	Lisa M	2011	Winter	Comparison of caloric content of added to removed entrees in chain restaurants following the introduction of the King County Nutrition Labeling Requirement.
Payne	Elizabeth Courtney	2011	Winter	Local policies related to restaurant menu labeling: Barriers, facilitating factors, and the role of local health departments
Shaw	Amanda	2011	Winter	The Impact of Stress on the Body Mass Index of Women in the Seattle Obesity Study
Woo	Ophelia	2011	Winter	The Impact of High- and Low-Glycemic Load Diets and Obesity on Sleep Outcomes
Gabriel	Anna Kahoiwai	2011	Spring	King County Menu Labeling: Do Customers Respond by Reducing the Caloric or Saturated Fat Content of Drinks Purchased at Coffee Chains?
Mercer	Amy Irene	2011	Spring	Contribution of Social Support to Diet for Diabetes Management among Hispanic Adults of the Yakima

				Valley
Spencer	Cynthia Jane	2011	Summer	Regional Capacity, Experience and Readiness for Health Policy Development in Washington State
Wilson	Casey Evan	2011	Summer	Hemoglobin A1C testing: A diagnostic tool for improving treatment outcomes in diabetic inpatients
Carlson	Dara Delnora	2011	Autumn	Assessing Family Food Insecurity in a Public Health Clinical Setting: What are Barriers to Utilizing Food Assistance Resources?
Fierce	Yvette Marie	2011	Autumn	The Use of Complementary and Alternative Medicine in Families with Children with Autism Spectrum Disorder
Ross	Jennifer Howell	2011	Autumn	Undergraduate Attitudes and Opinions on Nutrition and Wellness Classes and Services at the University of Washington
Williams	Julianne Erin	2011	Autumn	Developing methods for using GPS devices in nutrition and health-related research
Breymeyer	Kara Lynn	2012	Winter	The Effects of High and Low Glycemic Load Diets on Subjective Mood and Energy Levels in Normal7 Weight and Overweight/Obese Adults
Owen	Russell J	2012	Winter	Area-Level Measures of Deprivation Predict Food Patterns Among 7th Grade Students in Washington State
Lau	Richard C	2012	Spring	Fast Food Consumption and the Fast Food Environment
Shimer	Sarah E	2012	Spring	Effects of Differentially Sweetened Beverages on Hepatic and Adipose De Novo Lipogenesis in Healthy Young Adults
Igoe	Bridget	2012	Summer	What's on the menu? An evaluation of the foods served in Federally-subsidized child care homes
Stronach	Lola Sachiko	2012	Summer	Comparing Food Desert and Non-Food Desert Residents by Key Socio-Demographic Variables, Distance to supermarkets, Supermarket Type by Price, Diet Quality and Obesity in King Co, WA
Eppes	Elisabet V	2012	Autumn	Associations among Grade, Sex, and Free and Reduced Price Lunch Eligibility with Use of Nutrition Labels in Middle and High School Students
Faerber	Emily Christine	2012	Autumn	The Effect of Meal Preparation Time on Food Espenditure and Nutritional Quality of Menus in Family Child-Care Homes in King County, Washington
Louttit	Juli R	2012	Autumn	The use of 100% fruit juice as a fruit and vegetable equivalent in snacks served in federally-subsidized child care homes
Potestio	Katherine Garrett	2012	Autumn	Is healthy happy? The affective impact of the Renton Menu Labeling Project in an adolescent population
Stevenson	Angela Thanh Tam	2013	Winter	Assessment of Parenting Stress as Measured by the Parenting Stress Index-Short Form Related to Treatment and Management of a Child with Phenylketonuria
Dibay Moghadam	Sepideh	2013	Spring	The Association between Access to Water and Sugary-Sweetened Beverage Consumption in 37 Schools in King County

Aong	Elizabeth L	2013	Summer	Do screen time policies matter? The association between the presence of screen time policies in child care facilities and child care provider knowledgee, provider advocacy and facility
Kanholm	Isabel C	2013	Summer	Assessing Green Space as a Correlate of Physical Activity Among Twins
Ulatowski	Krista D	2013	Summer	District Market: A Pilot Marketing Study
Dennett	Carrie Cathleen	2013	Autumn	Relationship between parental use of praise and child weight outcomes in the FOCUS pediatric obesity study
Kwon	Young Mee	2013	Autumn	Development of the DESK(Disinhibited Eating Score for Koreans) Questionnaire: Examining the relationship between eating cues and food intake in the corporate-working population of Seoul,Korea
Najjar	Shelly Katsuko	2013	Autumn	Barriers to WIC Benefits Redemption among Participants in Washington State
Liu	Zhongyuan	2014	Winter	Socioeconomic trends in household food expenditures:Comparing objective food shopping receipts vs. self-reports
McLaury	Kimberly C	2014	Winter	Variation in WIC Cash-Value Voucher Redemption Rates among American Indian Reservation Communities in Washington State
Davis	Cara E	2014	Spring	Eating well and paying less: a positive deviance study
Mednik-Vaksman	Marina	2014	Spring	Relationship between socioeconomic status and fruit and vegetable intake among Washington State middle school students
Kurnik	Maia K	2014	Summer	Assessing the Impact of Post-Purchase Barriers on Fruit and Vegetable Consumption: A Secondary Analysis of a Survey of SNAP Recipients at SeattleFarmers Markets
Perez	Jonae B	2014	Summer	Longitudinal Associations Between Home Food Environment and Diet Quality in Children.
Reid	Diana L	2014	Summer	Can School Lunches Deliver Better Nutrition Without Sacrificing Palatability? An Evaluation ofNutritional Adequacy of School Lunches in Urban Washington State
Chung	Doris Pui-Yan	2014	Autumn	The Influence of Caregivers and Meal Decision Makers on the Nutritional Content of Fast Foods Purchased for Children
Kaufman	Alexandra E	2014	Autumn	Effects of State and Federal Legislation on a Sample of Local Public School District Wellness Policy Scores over Time

Appendix J: Student Publications, Awards, and Accomplishments

Student Publications

Student	Publications
Jyh-Lurn Chang (PhD, 2007)	**Chang JL**, Chen G, Ulrich CM, Bigler J, King IB, Schwarz Y, Li S, Li L, Potter JD, Lampe JW. DNA damage and repair: fruit and vegetable effects in a feeding trial. Nutr Cancer. 2010;62(3):329-35.
Carissa Cheng (MS, 2011)	**Cheng CF**, Zerzan JC, Johnson DB, Juul SE. Zinc protoporphyrin-to-heme ratios in high-risk and preterm infants. J Pediatr. 2012 Jul;161(1):81-7.e1. J Am Diet Assoc. 2011 Dec;111(12):1898-903.
Erin Enriquez (MS, 2012)	**Enriquez E**, Duncan GE, Schur EA. Age at dieting onset, body mass index, and dieting practices. A twin study. Appetite. 2013 Dec;71:301-6.
Celia Framson (MPH, 2008)	**Framson C**, Kristal AR, Schenk JM, Littman AJ, Zeliadt S, Benitez D. Development and validation of the mindful eating questionnaire. J Am Diet Assoc. 2009 Aug;109(8):1439-44.
Leslee (Sanders) Funderbunk (PhD, 2007)	**Sanders LF**, Duncan GE. Population-based reference standards for cardiovascular fitness among U.S. adults: NHANES 1999-2000 and 2001-2002. Med Sci Sports Exerc. 2006 Apr;38(4):701-7.
Jorming Goh (PhD, 2012)	**Goh J**, Ladiges WC. Exercise enhances wound healing and prevents cancer progression during aging by targeting macrophage polarity. Mech Ageing Dev. 2014 Jul;139:41-8. **Goh J**, Endicott E, Ladiges WC. Pre-tumor exercise decreases breast cancer in old mice in a distance-dependent manner. Am J Cancer Res. 2014 Jul 16;4(4):378-84. **Goh J**, Kirk EA, Lee SX, Ladiges WC. Exercise, physical activity and breast cancer: the role of tumor-associated macrophages. Exerc Immunol Rev. 2012;18:158-76. Review.
Laura Hooper (MS, 2007)	**Hooper LE**, Foster-Schubert KE, Weigle DS, Sorensen B, Ulrich CM, McTiernan A. Frequent intentional weight loss is associated with higher ghrelin and lower glucose and androgen levels in postmenopausal women. Nutr Res. 2010 Mar;30(3):163-70.
Angela Kong (PhD, 2010)	**Kong A**, Beresford SA, Alfano CM, Foster-Schubert KE, Neuhouser ML, Johnson DB, Duggan C, Wang CY, Xiao L, Jeffery RW, Bain CE, McTiernan A. Self-monitoring and eating-related behaviors are associated with 12-month weight loss in postmenopausal overweight-to-obese women. J Acad Nutr Diet. 2012 Sep;112(9):1428-35. Kong A, Beresford SA, Imayama I, Duggan C, Alfano CM, Foster-Schubert KE, Neuhouser ML, Johnson DB, Wang CY, Xiao L, Bain CE, McTiernan A. Adoption of diet-related self-monitoring behaviors varies by race/ethnicity, education, and baseline binge eating score among overweight-to-obese postmenopausal women in a 12-month dietary weight loss intervention. Nutr Res. 2012 Apr;32(4):260-5.
Fei Li (PhD, 2010)	**Li F**, Hullar MA, Beresford SA, Lampe JW. Variation of glucoraphanin metabolism in vivo and ex vivo by human gut bacteria. Br J Nutr. 2011 Aug;106(3):408-16.
Pablo Monsivais (MPH, 2007)	**Monsivais P**, Drewnowski A. The rising cost of low-energy-density foods. J Am Diet Assoc. 2007 Dec;107(12):2071-6. **Monsivais P**, Perrigue MM, Drewnowski A. Sugars and satiety: does the type of sweetener make a difference? Am J Clin Nutr. 2007 Jul;86(1):116-23. PubMed PMID: 17616770.

Rachel Myhre (MS, 2011)	**Myhre R**, Kratz M, Goldberg J, Polivy J, Melhorn S, Buchwald D, Cummings DE, Schur EA. A twin study of differences in the response of plasma ghrelin to a milkshake preload in restrained eaters. Physiol Behav. 2014 Feb 14;129C:50-56.
Martine Perrigue (MPH, 2009; PhD, 2013)	**Perrrigue MM**, Kantor ED, Hastert TA, Patterson R, Potter JD, Neuhouser ML, White E. Eating frequency and risk of colorectal cancer. Cancer Causes Control. 2013 Dec;24(12):2107-15. doi: 10.1007/s10552-013-0288-8. Epub 2013 Sep 21. PubMed PMID: 24057417; PubMed Central PMCID: PMC3875335. Monsivais P, **Perrigue MM**, Adams SL, Drewnowski A. Measuring diet cost at the individual level: a comparison of three methods. Eur J Clin Nutr. 2013 Nov;67(11):1220-5. doi: 10.1038/ejcn.2013.176. Epub 2013 Sep 18. PubMed PMID: 24045791; PubMed Central PMCID: PMC3898278. Carter BE, Monsivais P, **Perrigue MM**, Drewnowski A. Supplementing chicken broth with monosodium glutamate reduces hunger and desire to snack but does not affect energy intake in women. Br J Nutr. 2011 Nov;106(9):1441-8. doi: 10.1017/S0007114511001759. Epub 2011 Jun 1. PubMed PMID: 21736801. **Perrigue M**, Carter B, Roberts SA, Drewnowski A. A low-calorie beverage supplemented with low-viscosity pectin reduces energy intake at a subsequent meal. J Food Sci. 2010 Nov-Dec;75(9):H300-5. doi: 10.1111/j.1750-3841.2010.01858.x. PubMed PMID: 21535604. Monsivais P, Carter BE, Christiansen M, **Perrigue MM**, Drewnowski A. Soluble fiber dextrin enhances the satiating power of beverages. Appetite. 2011 Feb;56(1):9-14. doi: 10.1016/j.appet.2010.10.010. Epub 2010 Nov 4. PubMed PMID: 21056069. **Perrigue MM**, Monsivais P, Drewnowski A. Added soluble fiber enhances the satiating power of low-energy-density liquid yogurts. J Am Diet Assoc. 2009 Nov;109(11):1862-8. doi: 10.1016/j.jada.2009.08.018. PubMed PMID: 19857627. Monsivais P, **Perrigue MM**, Drewnowski A. Sugars and satiety: does the type of sweetener make a difference? Am J Clin Nutr. 2007 Jul;86(1):116-23. PubMed PMID: 17616770.
Joy Supplee (MS, 2008)	**Supplee JD**, Duncan GE, Bruemmer B, Goldberg J, Wen Y, Henderson JA. Soda intake and osteoporosis risk in postmenopausal American-Indian women. Public Health Nutr. 2011 Nov;14(11):1900-6.
Yumie Takata (PhD, 2010)	**Takata Y**, Kristal AR, Santella RM, King IB, Duggan DJ, Lampe JW, Rayman MP, Blount PL, Reid BJ, Vaughan TL, Peters U. Selenium, selenoenzymes, oxidative stress and risk of neoplastic progression from Barrett's esophagus: results from biomarkers and genetic variants. Cancer Epidemiol Biomarkers Prev. 2012 Jul;21(7):1167-70. **Takata Y**, Kristal AR, King IB, Song X, Diamond AM, Foster CB, Hutter CM, Hsu L, Duggan DJ, Langer RD, Petrovitch H, Shikany JM, Vaughan TL, Lampe JW, Prentice RL, Peters U. Serum selenium, genetic variation in selenoenzymes, and risk of colorectal cancer: primary analysis from the Women's Health Initiative Observational Study and meta-analysis. Cancer Epidemiol Biomarkers Prev. 2011 Sep;20(9):1822-30.

Olivia Thompson (PhD, 2007)	**Thompson OM**, Beresford SA, Kirk EA, Bronner MP, Vaughan TL. Serum leptin and adiponectin levels and risk of Barrett's esophagus and intestinal metaplasia of the gastroesophageal junction. Obesity (Silver Spring). 2010 Nov;18(11):2204-11. Thompson OM, Beresford SA, Kirk EA, Vaughan TL. Vegetable and fruit intakes and risk of Barrett's esophagus in men and women. Am J Clin Nutr. 2009 Mar;89(3):890-6.
Michelle Averill (PhD, 2007)	**Averill MM**, Bennett BJ, Rattazzi M, Rodmyre RM, Kirk EA, Schwartz SM, Rosenfeld ME. Neither antioxidants nor genistein inhibit the progression of established atherosclerotic lesions in older apoE deficient mice. Atherosclerosis. 2009 Mar;203(1):82-8.
Brian Bennett (PhD, 2006)	**Bennett BJ**, Scatena M, Kirk EA, Rattazzi M, Varon RM, Averill M, Schwartz SM, Giachelli CM, Rosenfeld ME. Osteoprotegerin inactivation accelerates advanced atherosclerotic lesion progression and calcification in older ApoE-/- mice. Arterioscler Thromb Vasc Biol. 2006 Sep;26(9):2117-24.

Student Awards, Presentations, or Accomplishments

Student	**Activity**
Katherine Getts (MPH, in progress)	Selected as one of three students from UW to attend the 2014 CDC Millennial Health Leaders Summit
Sara Diedrich (MPH, in progress)	University of Washington's Global Opportunities in Health Fellowship, supported quarter of study in Peru
Sepideh Dibay Moghadam (MPH, 2013; PhD, in progress)	Poster presentation, "The Association between Access to Water and Sugary-Sweetened Beverage Consumption in 37 Schools in King County", 2014 Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo
Jonae Perez (MPH, 2014)	2014 Outstanding Dietetics Student Award, Coordinated Program, Washington State Academy of Nutrition and Dietetics
Sara Bailey (MS, 2012)	Presentation based on thesis research, "Restricted eating behavior in children with Phenylketonuria and Hyperphenylalaninemia" at the 2014 Genetic Metabolic Dietitians International (GMDI) meeting
Melissa Edwards (MPH, 2014)	Received Pediatric Nutrition Practice Group Research Grant Award to support thesis research "Comparison of Gut Microbial Community in Patients with Phenylketonuria (PKU)"
Carrie Dennett (MPH, 2013)	2013 Outstanding Student Award, Women's Health Practice Group, Academy of Nutrition and Dietetics 2013 Outstanding Dietetics Student Award, Coordinate Program, Washington State Academy of Nutrition and Dietetics
Marc Zimmerman (MS, 2013)	Presentation "Obtaining Nutritional Information for Dietary Assessment" accepted for 2013 Nutrient Databank Conference

Appendix K: Employers and Titles for Graduates, 2005–Present

PhD Graduates

- Assistant Professor, University of North Carolina, Department of Genetics
- Associate Professor, University of Minnesota, Dept of Food Science and Nutrition
- Senior Medical Writer, Metagenics
- Director, Graudate Program in Nutrition, Baylor University
- Acting Assistant Professor, University of Washington
- Assistant Professor, College of Charleston, Health and Human Performance
- Acting Instructor, University of Washington
- Research Scientist, University of Illinois at Chicago, Institute for Health Research and Policy
- Postdoctoral Fellow, Vanderbilt University
- Research Scientist, Fred Hutchinson Cancer Research Center
- Research Scientist, Kent Ridge Laboratories, Singapore
- Reseacher, Fred Hutchinson Cancer Research Center

MS Graduates

- Research Dietitian, Fred Hutchinson Cancer Research Center
- Outpatient Clinical Nutrition Manager, Harborview Medical Center
- Health Coach, Wellness Corporate Solution
- Fellow/Epidemiologist at National Cancer Institute (NCI)
- Clinical Dietitian, Children's Hospital *5 graduates
- Research Associate, Northwestern University Feinberg School of Medicine
- Clinical Dietitian, Seattle Children's Hospital
- Dietitian, WIC
- Clinical Dietitian, Swedish Medical Center
- Program Manager, WIC Public Health Seattle – King County
- Reseacher, Fred Hutchinson Cancer Research Center
- Outpatient Dietitian, UW Medical Center
- Nutritionist, UW Center on Human Development and Disability
- Outpatient Dietitian, Harborview Medical Center
- Manager, Patient Foodservices, Harborview Medical Center
- Dietitian, WIC & Nutrition and Wellness Manager at Guckenheimer
- Consultant Dietitian, Montecatini
- Registered Dietitian Nutritionist, Nystrom & Associates
- Registered Dietitian at Western Washington Medical Group
- Dietitian, Meal Host Coordinator at Harborview Medical Center
- Dietitan, Pro Sports
- Product Management, EveryMove, Inc.
- PhD Student, QIMR Berghoher Medical Research Institute
- Registed Dietitian, Nutritionist, Apple Physical Therapy
- Registered Dietitian, Harborview Hospital
- Registered Dietitian, Kindred Healthcare *2 graduates

MPH Graduates

- Training and Resource Manager, Arizona Department of Health Services
- Outreach and Education Specialist, Washington State Department of Agriculture
- School Nutrition Program Manager, WithinReach
- Breastfeeding Promotion Program Manager, WithinReach

- Lecturer, UW Epidemiology and Director, UW Graduate Coordinated Program in Dietetics
- Resident Dietitian, Compass Group North America
- Researcher, Atkins Center for Weight and Health
- Director Of Schools Initiatives, UW Center for Public Health Nutrition
- Nutritionist, Alameda County Public Health Department
- Patient Navigator, at American Cancer Society, Partnership with Virginia Mason Cancer Institute
- Senior University Lecturer, Cambridge University, Centre for Diet and Activity Research
- Clinical Dietitian, Seattle Children's Hospital *3 graduates
- Program Manager, UW Nutritional Sciences Program
- Clinic and Community Supervisor, Rice County Public Health, Minnesota
- Population Health Specialist, Healthcare Management Administrators
- Capital Campaign Director, Seattle Humane Society
- WIC Nutrition Coordinator, Dietitian, Neighborcare Health
- Lead Dietitian, Lifelong AIDS Alliance
- Oncology Dietitian, Saint Lukes
- Executive Director, Hunger Intervention Program
- Research Coordinator, UW Center for Public Health Nutrition
- Associate Specialist, UC Berkeley Center for Weight and Health
- Research and Outreach Program Manager, Washington Physicians Health Program
- Clinical Dietitan II, UC Irvine Medical Center
- Research Kitchen Dietitan, Fred Hutch
- Research Scientist, University of Washington
- Nutritionist, Public Health Seattle King County, WIC
- PhD Student, Oregon State University
- Food Service Manager, HMC
- Renal Dietitian, Pudget Sound Kidney Center
- Adjunct Faculty, North Seattle College
- British Heart Foundation Centre on Population Approaches for Non-Communicable Disease Prevention, University of Oxford
- Medical Student
- PhD Student, UW Nutritional Sciences
- Program Manager, Community Partnerships for Healthy Mothers & Children
- PhD Student, Emory University
- Program Coordinator, Washington State Department of Health
- Home Tube Feeding Specialist, Coram Healthcare
- Analyst, Health Promotion and Disease Prevention, Association of State and Territorial Public Health Officers
- Retail Dietitian, Hy-Vee Grocery
- Clinical Dietitan, Amsterdam Nursing Home
- Registered Dietitian, Poway Health Care Center
- Project Coordinator, Labcorp Clinical Trials
- Outpatient Dietitian, Northwest Natural Health ; Owner, Nutrition By Carrie; Columnist, The Seattle Times
- Coordinator, Healthy Communities of Pierce County
- Counseling Dietitian, Seattle Pacific University
- Nutrition Scientist, Abbott, Singapore
- Nutrition Program manager, Quinault Indian Nation
- Americorps Vista Volunteer
- Dietitan, Valley Medical Center & Americorp Vista Volunteer, Community Dining Services, Senior Services
- Owner, Nutrition Communications Consultant & Dietitian, Alere Health
- Wellness Project Coordinator, Westside Regional Center
- Dietitian, SeaMar

Appendix L: Nutritional Sciences Courses

NUTR 300 Nutrition for Today (3) NW *Averill, Kirk*
Science of nutrition as it relates to individual food choices, health behaviors, public health. Health topics include wellness, obesity, eating disorders, sports nutrition, prevention of chronic disease. Nutrients and nutritional needs across the lifespan. Issues facing society including food safety, biotechnology, use of supplements and botanicals. Offered: AW.

NUTR 302 Food Studies: Harvest to Health (3) I&S/NW *Otten*
Examines the many facets of the modern food supply from production and processing to distribution, marketing, and retail. Systems approach to foods studies considers geopolitical, agricultural, environmental, social, and economic factors along the pathway from harvest to health. Prerequisite: NUTR 300. Offered: Sp.

NUTR 303 Neighborhood Nutrition (3) NW, DIV *Drewnowski*
Examines the food environment in the local community from the public health perspective. Explores where people get their food, what influences this decision and various aspects of the local food movement including access to healthy food, urban agriculture, farmers markets, and farm-to-school programs. Prerequisite: NUTR 300. Offered: W.

NUTR 310 Nutrition and the Life Course (4) NW
Explores nutrient needs from infancy through adolescence and adulthood, including the physiological basis of nutrient requirements and the genetic, social, and environmental influences on food choices and nutrition status. Uses an evidence-based approach to assess the impact of nutrition across life stages and ways to improve population health by improving nutrition. Prerequisite: NUTR 300.

NUTR 405 Physical Activity in Health and Disease (3) NW *Duncan*
Impact of physical activity on individual and public health. Overview of physiological adaptations to activity, exercise prescription, exercise epidemiology, and prevention of chronic diseases. Public health recommendations for activity in the U.S. population, and the effects of the built environment on activity. Prerequisite: either BIOL 118 or BIOL 220. Offered: Sp.

NUTR 406 Sports Nutrition (3) NW *Kirk*
Covers the essentials of human nutrition that improve and sustain optimal performance for sport and exercise. Discusses the effect of eating disorders (in both male and female athletes), weight management, and sport nutrition resources. Prerequisite: NUTR 300. Offered: Sp.

NUTR 411 Topics in Advanced Nutrition (2) QSR
Discusses advanced topics in nutritional sciences. Includes nutrition and health, chronic disease prevention and management, and in-depth discussion of dietary patterns. Draws on current topics in the media, impacts of public health policy on diet, and the most recent nutrition research. Prerequisite: NUTR 300. Offered: Sp.

NUTR 412 United States Food and Nutrition Policy (3) I&S *Otten*
Offers a broad introduction to food and nutrition policies in the United States and their impacts on population health. Real-world controversies and debates used to illustrate policy principles, research tools, and policy analysis. Includes topics on public health nutrition, food policy related to population health, and food security. Prerequisite: NUTR 300. Offered: A.

NUTR 420 Global Nutrition: Challenges and Opportunities (3) I&S *J. GORSTEIN*
Examines global dimensions of malnutrition; its assessment and classification, along with global policies and programs to improve nutritional status in developing countries. Emphasizes global consequences of poor nutrition on health, cognition, and development with a focus on the first 1,000 days from conception to age two. Prerequisite: NUTR 300. Offered: A.

NUTR 446 Food Safety and Health (3) *Rosenfeld*
Presentation of emerging issues in food safety and toxicology, microbiology, sustainable agriculture, and biotechnology. Examines both domestic and global pressures on the food supply. Examines international and national polices that promote regional solutions for a safe food supply and access to nutritious foods. Offered: W.

NUTR 465 Nutritional Anthropology (3) I&S/NW
Examines the interrelationships between biomedical, sociocultural, and ecological factors, and their influence on the ability of humans to respond to variability in nutritional resources. Topics covered include diet and human evolution, and nutrition-related biobehavioral influences on human growth, development, and disease resistance. Prerequisite: BIO A 201. Offered: jointly with BIO A 465.

NUTR 490 Special Topics in Nutritional Sciences (1-5, max. 10)
Examines emerging issues in nutrition. Reviews the evidence and potential policy implications. Offered: AW.

NUTR 499 Undergraduate Research (1-5, max. 10)
Independent study and research supervised by a faculty member with appropriate academic interest. Credit/no-credit only. Offered: AWSpS.

NUTR 500 Graduate Seminar: Current Issues in Nutrition (1, max. 4)
A review of current topics in nutritional science and public health nutrition. Provides a forum for student and faculty presentation, and review of current research efforts. Prerequisite: graduate student in nutrition. Credit/no-credit only. Offered: AWSp.

NUTR 505 Physical Activity in Health and Disease (3) *Duncan*
Impact of physical activity on individual and public health. Overview of physiological adaptations to activity, exercise prescription, exercise epidemiology, and prevention of chronic diseases. Public health recommendations for activity in the U.S. population, and the effects of the built environment on activity. Prerequisite: human physiology Offered: jointly with EPI 502; Sp.

NUTR 511 Survey of Advanced Nutrition (2-3) *Averill*
Advanced introduction to nutritional sciences. Topics include macronutrient and micronutrient metabolism, energy balance and obesity, nutrient utilization in physical activity, nutritional needs and recommendations throughout the lifecycle, and the relationships between nutrition and atherosclerosis, diabetes, and cancer risk. Offered: A.

NUTR 512 United States Food and Nutrition Policy (3) *Otten*
Offers a broad introduction to food and nutrition policies in the United States and their impacts on population health. Real-world controversies and debates used to illustrate policy principles, research tools, and policy analysis. Includes topics on public health nutrition, food policy related to population health, and food security. Prerequisite: NUTR 300. Offered: A.

NUTR 520 Nutrition and Metabolism I (3) *Rosenfeld*
Metabolic/physiologic concepts related to energy balance, carbohydrate, and protein nutrition. Addresses energy producing pathways, as well as food sources, digestion, absorption, and utilization of carbohydrates, protein, and various micronutrients. Additional topics include low carbohydrate diets, vegetarianism, protein deficiency, and inborn errors in carbohydrate and protein metabolism. Prerequisite: biochemistry. Offered: A.

NUTR 521 Nutrition and Metabolism II (3) *Rosenfeld*
Discussion of normal lipid components of animal tissues, with review of their metabolism and physiological functions. Topics include digestion, absorption, transport, and utilization of dietary fats, cholesterol, and fat-soluble vitamins. Discusses in-depth the roles played by lipids and various micronutrients in altering risk of atherosclerosis. Prerequisite: biochemistry. Offered: W.

NUTR 522 Nutrition and Metabolism III (3) *Rosenfeld*
Advanced study of biologically essential minerals and vitamins. To include absorption, transport, function, storage, and excretion; imbalance, deficiency and toxicity; dietary structures; and role of these nutrients in prevention of diseases directly or indirectly. Prerequisite: biochemistry. Offered: Sp.

NUTR 526 Maternal and Infant Nutrition (3) *Johnson*
Influence of maternal and infant nutrition on the health of populations. Nutrition-related physiological, psychological, and social factors in pregnancy, lactation, and infancy. Application of evidence-based approaches to maternal and infant nutrition. Recommendations and interventions for populations and high-risk individuals. Prerequisite: human nutrition and human physiology. Offered: A.

NUTR 527 Pediatric Nutrition (2-3) *Ogata*
Addresses the influence of nourishment on growth, development, and behavior of children, including children with special health care needs, in both individual and population-based environments. Includes principles of nutrition and assessment, critical evaluation of normative data, clinical and community nutritional care, and family-centered care. Prerequisite: human nutrition and human physiology or permission of instructor. Offered: Sp.

NUTR 529 Nutrition Research Design ([1-3]-, max. 3) *Duncan*
Critical review of selected nutrition literature. Evaluation of experimental design, research protocols, data analyses, and data presentations. Prerequisite: BIOST 511. Credit/no-credit only. Offered: A.

NUTR 531 Public Health Nutrition (4) *Johnson*
Explores the functions and essential services of public health as they apply to assuring access to a safe and nutritious food supply. Examines the practice of public health nutrition: nutrition environment, program planning, implementation, and evaluation; policy development, implementation, and evaluation; and links between basic science and public health nutrition practice. Prerequisite: introductory nutrition. Offered: W.

NUTR 532 Fieldwork in Public Health Nutrition (1-12, max. 12) *Lund*
Experience and service learning in organizations that plan, deliver, and promote population-based nutrition education and nutrition services. Prerequisite: nutritional sciences graduate student and permission of instructor. Credit/no-credit only. Offered: AWSpS.

NUTR 536 Nutrition Education Principles and Practice (3) *Johnson*
Examines theory-based design and delivery of nutrition education including conducting needs assessments and developing lesson plans, activities, visual aids, and evaluation material. Explores design features of written,

oral, and technology-based nutrition education materials and initiatives. Addresses differing learning styles, cultural groups, and literacy levels. Offered: Sp.

NUTR 537 Laboratory Rotation (1-4, max. 6)
Exposure to research being conducted in the laboratories of the graduate nutrition faculty. Provides hands-on experience in laboratory research. Introduces the student to ongoing research for preparation of dissertation topics. Prerequisite: permission of instructor. Credit/no-credit only. Offered: AWSpS.

NUTR 538 Nutritional Epidemiology (3) *Beresford, Kratz*
Application of epidemiological methods to studies of diet, nutrition, and chronic disease. A discussion of current issues and controversies enables students to design studies and read the literature in nutritional epidemiology. Prerequisite: EPI 511 or EPI 512 or permission of instructor. Offered: jointly with EPI 538; A.

NUTR 545 Food Safety and Health (3)
Presentation of emerging issues in food safety, sustainable agriculture, and biotechnology. Examines both domestic and global pressures on the food supply. Examines international policies that promote regional solutions for a safe food supply and access to nutritious foods. Offered: jointly with ENV H 540; W.

NUTR 555 Nutrition in Developing Countries (3) *Gorstein*
Introduces issues of nutrition in developing countries, with an emphasis on the control and prevention of under nutrition and micronutrient deficiencies. Offered: jointly with G H 555; Sp, odd years.

NUTR 559 Orientation to Clinical Dietetics Practice (3) *Averill*
Provides an orientation to dietetics in clinical settings including the nutrition care process and integration of evidence-based practice. Offered: A.

NUTR 560 Nutritional Counseling for Chronic Disease (1-3) *Simon*
Examines nutritional intervention strategies and counseling skills that pertain to chronic disease prevention and management. Builds knowledge and skills needed to create appropriate care plans and counseling strategies designed to meet individual client assessment/counseling situations. Offered: Sp.

NUTR 561 Graduate Coordinated Program in Dietetics (1-10, max. 35) *Lund*
Focuses on the competencies for entry-level practice in dietetics. Includes supervised practice experience in wellness, public heath, food services, ambulatory care, and clinical care. Prerequisite: GCPD students only. Credit/no-credit only. Offered: AWSpS.

NUTR 562 Nutrition and Chronic Disease (4) *Kirk*
Epidemiology/pathophysiology of chronic disease related to nutrition (e.g., obesity, cardiovascular disease, osteoporosis, hypertension, diabetes). Examines nutritional risk/protective factors in relation to public health, individual nutrition, and clinical intervention. Prerequisite: physiology, biochemistry. Offered: Sp.

NUTR 563 Nutrition in Acute Care (4) *Averill*
Assessment of the nutritional demands and hypermetabolic response of trauma, surgery, organ failure, burns, AIDS, and neoplastic disease. Examines specialized nutritional support and substrate requirements in the acute care setting. Prerequisite: either NUTR 562 or permission of instructor. Offered: A.

NUTR 564 Management of Nutrition Services (3)
Examines healthcare policy and administrative issues that impact delivery of nutritional services in different

healthcare settings. Topics include organizational behavior, productivity, project management, financial reporting, and human resources. Offered: S.

NUTR 590 Special Topics in Nutritional Science (1-4, max. 4)
Examines emerging issues in nutrition. Reviews the evidence and potential policy implications. Prerequisite: permission of instructor. Credit/no-credit only.

NUTR 595 Nutritional Sciences Master's Practicum (1-12, max. 12) *Lund*
Supervised practice experience providing students an opportunity to learn how nutritional sciences are applied to public health settings and in the formulation and application of public health policy. Prerequisite: HSERV 511; NUTR 531; EPI 511; NUTR 520; NUTR 521; NUTR 522. Credit/no-credit only. Offered: AWSpS.

NUTR 600 Independent Study or Research (*-)
Credit/no-credit only. Offered: AWSpS.

NUTR 700 Master's Thesis (*-)
Credit/no-credit only. Offered: AWSpS.

NUTR 800 Doctoral Dissertation (*-)
Credit/no-credit only. Offered: AWSpS.

Appendix M: Student Evaluation Scores for NSP Courses, 2012–2013 and 2013–2104

	2012–2013		2013–2014	
Course	**Rating[1]**	**CEI[2]**	**Rating[1]**	**CEI[2]**
300 Nutrition for Today (Autumn)	4.4	4.0	4.4	4.0
300 Nutrition for Today (Winter)			4.5	3.9
302 Food Studies: Harvest to Health	4.8	4.4	4.6	4.2
303 Neighborhood Nutrition	3.1	4.0	4.0	4.2
405 Physical Activity in Health and Disease	4.3	4.0	4.1	4.0
406 Sports Nutrition	4.8	4.2	4.6	4.1
411 Topics in Advanced Nutrition	4.9	4.1	4.3	4.1
412 United States Food and Nutrition Policy	-	-	4.9	5.0
446 Food Safety and Health	4.2	4.2	4.2	4.7
490 Special Topics in Nutritional Sciences	4.4	2.0	4.0	3.7
500 Graduate Seminar	4.0	3.6	4.0	3.7
505 Physical Activity in Health and Disease	-	-	4.1	4.0
511 Survey of Advanced Nutrition	4.4	3.9	4.6	4.1
512 United States Food and Nutrition Policy	-	-	4.9	5.0
520 Nutrition and Metabolism I	3.8	5.8	4.3	6.7
521 Nutrition and Metabolism II	4.2	6.0	4.4	6.2
522 Nutrition and Metabolism III	3.8	5.9	3.4	5.6
526 Maternal and Infant Nutrition	4.6	4.4	4.7	4.8
527 Pediatric Nutrition	4.6	4.1	4.5	4.1
529A Nutrition Research Design	4.0	3.6	4.8	3.3
529B Nutrition Research Design	-	-	3.8	4.2
531 Public Health Nutrition	4.4	4.1	4.3	4.3
536 Nutrition Education	4.4	4.2	3.5	4.1
545 Food Safety and Health	4.3	3.6	4.2	4.7
555 Nutrition in Developing Countries	4.0	4.0	-	-
559 Orientation to Clinical Dietetics Practice	4.4	4.9	4.4	4.3
560 Nutritional Counseling for Chronic Disease	4.0	3.5	2.6	3.7
562 Nutrition and Chronic Disease	4.1	4.3	4.7	5.2
563 Nutrition in Acute Care	4.7	5.3	4.7	5.0
564 Management of Nutrition Services	3.5	3.0	3.5	3.9

[1] Median overall rating represents the combined responses of students to the four global summative items and is presented to provide an overall index of the class's quality (0=lowest; 5=highest)

[2] Challenge and Engagement Index (CEI) combines student responses to several IAS items relating to how academically challenging students found the course to be and how engaged they were (1=lowest; 7=highest)

Appendix N: Graduate Student Portfolio Template

NUTRITIONAL SCIENCES GRADUATE PORTFOLIO

Purpose of the Graduate Portfolio

The curricula and degree requirements for the MS, MPH, and PhD programs in Nutritional Sciences are based on competencies established by the School of Public Health (for all students in the school) and the Nutritional Sciences Program (core competencies required for all students and degree specific competencies). As an accredited School of Public Health, academic programs are asked to demonstrate how each student is given an opportunity to assess and demonstrate their achievement of the competencies. For example, some programs have a comprehensive exam after the first year of coursework. In Nutritional Sciences, the Graduate Portfolio serves this purpose while providing a structured opportunity to:

- Document achievement of first-year degree and program competencies. (Self Assessment, Table A, Table B, Papers, Presentation)
- Reflect on personal goals, progress, and achievements. (All components)
- Describe your planning process and set goals for the next stages of your graduate work. (Self Assessment, Table C)
- Demonstrate writing skills and ability to synthesize and tailor information for intended audiences. (Self Assessment, Papers, Presentation)
- For Master's students: Assess readiness for thesis research. Approval of the portfolio is required before students are eligible to register for NUTR 700 thesis credits. (Table C, Self Assessment)
- For Doctoral students: Assess appropriate progress toward defining research interests, establishing mentors, and identifying a dissertation project. (Table C, Self Assessment)
- Identify opportunities for guidance or possible areas of concern as students prepare for their second year. (All components)

Required Portfolio Contents

Your completed portfolio will include the following items. Instructions for each section are provided in this template.

- ❑ Cover Page with Student Name, Date of Submission, and Committee Chair (if established).
- ❑ Self Assessment (1-2 page narrative)
- ❑ Table A. Nutritional Sciences Program Core Competencies
- ❑ Table B. Academic Performance
- ❑ Table C. Objectives & Timeframe for Thesis or Dissertation Research
- ❑ Scientific Paper (from NUTR 520, 521, 522 or 562)
- ❑ Science to Policy Paper (from NUTR 531)
- ❑ PowerPoint Presentation (from NUTR 520, 521, 522, 531 or 562)

Submit as a Single PDF Document

After preparing your narrative, tables, and required assignments, please consolidate all of the materials into a single PDF document for submission using the Catalyst Dropbox. Acrobat Pro is available on the computers in Raitt 330 if needed. Additional instructions for merging and submitting your file are provided on http://depts.washington.edu/nutr/Portfolio.html

A. Self Assessment

Instructions: Please write your Self Assessment in a narrative/essay format. While your reflection should be guided by the questions raised in sections A.1, A.2, and A.3, please do not list bulleted questions followed by a response. The expected length is approximately 1 to 2 pages total (single-spaced with at least 11 point font).

A.1 Goals, Objectives, Achievements and Competencies

Describe your growing understanding and achievements in your first year of graduate study as they reflect progress toward your identified goals, objectives, and career.

- What were your initial goals and objectives for gaining competencies during graduate study?
- To what extent you think your first year of study has moved you toward achieving those goals/objectives?
- How have your initial goals and objectives changed?
- What were your major achievements during the first year of graduate study?
- Describe any unanticipated benefits from your first year of graduate study.
- Reflect on your experiences in terms of your career goals and your journey toward being a nutrition professional who can synthesize the depth of knowledge and creativity of thought to address future nutrition problems.

A.2 Describe progress toward the Nutritional Sciences' core competencies.

Complete "Table A: Nutritional Sciences Program Core Competencies" by providing general statements about the kinds of learning experiences that have prepared you to be competent in each of the areas listed. Please be more thoughtful than just listing course numbers. Also complete Table B: Academic Performance, to highlight your achievement in the core courses.

After reviewing your completed Competencies table, please consider the following questions and describe your progress toward the competencies in your Self Assessment narrative.

- What specific ways of engaging with these topics allowed you to become competent?
- What are your areas of greatest competency?
- What are the areas where you hope to gain additional competency?

A.3 Plans for Thesis or Dissertation Research

Please use "Table C: Objectives & Timeframe for Thesis or Dissertation Research Process" and your Self Assessment narrative to describe the current state of your plans for thesis or dissertation research.

Note: You do not have to have a well-developed proposal at this point, which will be completed in NUTR 529 B in the second Autumn quarter of your academic program, but you should be able to describe your process for developing research ideas.

After completing Table C, use your Self Assessment narrative to summarize the current state of your plans for thesis or dissertation research and address the following questions.

- Who is your committee chair (if established) or who have you talked to about thesis or dissertation ideas?
- What are your general areas of interest?
- What general type of study do you think that you will want to conduct?
- What criteria are you using to select a good match for thesis research?

Table A. Nutritional Sciences Program Core Competencies

Competency	**Describe how competency was achieved** (e.g. readings, papers written, attendance at lectures, seminars, discussions; presentations given; papers written both at UW and other settings)	
	Achieved in prerequisites* or core classes#	**Achieved in other courses**
I. Knowledge of Nutritional Sciences		
A. Nutritional Biochemistry & physiology		
Pathways for digestion, absorption, transportation, storage, cellular metabolism, regulation and excretion of macro and micro nutrients		
Neuroendocrine regulation of body mass and energy metabolism		
Basic concepts of the interplay of genetics and nutrition		
The impact of growth and aging on nutrient requirements and utilization		
B. Nutrient Composition of Foods		
Identify dietary sources of essential nutrients, fiber and phytochemicals		
Define “nutrient density” and “energy density”		
II. Research		
A. Apply appropriate research methodologies according to area of interest		
Develop an appropriate research		

model to answer a study question		
Select and apply appropriate statistical tests to research results		
B. Critically evaluate basic, clinical, and public health scientific literature		
C. Identify requirements for responsible and humane animal and human research		
III. Applied Nutrition Skills		
A. Nutrition Assessment		
Assess the nutritional health and food security status of populations using data from state and federal surveys		
Assess the nutritional and fitness status of individuals using standards for anthropometry, biochemical measures, dietary measures, functional measures and social measures		
B. Nutrition Policy & Practice		
Define the Dietary Reference Intakes, Dietary Guidelines for Americans and MyPlate describe the process of their development, and apply these tools to planning nutritional services for individuals and populations		
Apply the core functions of public health (Assessment, Policy Development, Assurance) and the 10 essential public health		

services to assure nutritional health and food safety for the population		
C. Disease Prevention		
Identify major diseases related to nutrition (syndrome X, obesity, cardiovascular diseases, cancer), the pathophysiology of these diseases, risk factors and evidence-based interventions for individuals and populations		
Access and apply conceptual models of evidence-based approaches to promoting nutritional health		

* Prerequisites include: nutrition, general chemistry, organic chemistry, biochemistry and physiology.

\# Core classes include: biostatistics, nutrition seminar (Nutr 500), Nutrition and Metabolism I, II,III, Public Health Nutrition and Nutrition in Chronic Disease.

Table B. Academic Performance

Core Course	Grade		
NUTR 520			
NUTR 521			
NUTR 522			
NUTR 531			
NUTR 562			
NUTR 500 (Cr/NCr)			
NUTR 529A (Cr/NCr)			

Table C: Objectives & Timeframe for Thesis or Dissertation Research

Set forth measurable, time-framed objectives for your thesis or dissertation research.
For each category below, discuss what you will do by a specific time and what your outcomes or products will be. You may use the table provided below or set up your own table format as long as each category is addressed.

Finalize your research topic Describe in a time-framed way: • Who you will talk to • What will you read • What meetings and presentations will you go to • What avenues will you explore	
Conduct a literature review** Describe in a time-framed way how you will go about reviewing literature so that you will be able to: • Describe the current state of knowledge in the topic area • Identify gaps in current knowledge that your project could fill • Find similar published projects and examine statistical approaches	
Acquire additional research competencies Describe in a time-framed way how you will go about getting the additional competencies you need to complete your research. For instance, do you need to gain skills in analyzing qualitative and/or quantitative data, making tables managing scientific references, writing for a scientific audience, using specific software?	
Obtain mentoring and experiences that will be needed for completing the thesis/dissertation Include a detailed timeline for obtaining additional experiences that may include: • Statistical consultation • Contacts with mentors in and out of the University setting	

• Interactions with others who have similar interests at meetings or over the internet	
Select a research committee • How will you select a chair? • What other faculty support will you need to complement the expertise of your chair? • How will you engage that expertise?	
Secure access to data or populations Describe the steps that you will take to assure access to your data	
Write a research proposal that includes background, need for research & well developed methods sections Provide a timeline for drafts, time for committee review, and completion of the proposal	
Complete training and prepare applications for Human Subjects, HIPPA or Institutional Animal Care and Use Committee (IACUC) as needed	
Provide time-framed objectives for each of the following steps: • Gather data • Analyze data • Discuss meaning of results with committee and others • Draft results and discussion sections of thesis/dissertation • Present thesis/dissertation • Complete final version of thesis/dissertation manuscript	

** You are encouraged to spend some time this summer completing a literature review for your potential research topic. Your goal will be to become very familiar with the sentinel works in your area, identify gaps that your study can fill, become familiar with potential research methods used by other researchers in the field you are focused on, and become familiar with other publications that have used the same kinds of data you will be using.

D. Scientific Paper

Select one paper that represents your capabilities to write a scientific paper. This paper should be drawn from your work in a core nutrition course (NUTR 520, 521, 522 or 562). The paper should focus on a specific topic in nutrition, synthesize findings from multiple researchers to describe the state of current knowledge about the topic, outline limitations of current research, and highlight gaps in understandings. The audience for this paper is nutritional scientists.

E. Science to Policy Paper

This paper is an assignment for NUTR 531 – Public Health Nutrition. It is a short (5 page double spaced) paper that addresses current knowledge about a focused area of nutritional science starting with the basic science, followed through clinical or public health applications and ending with policy implications. The audience for this paper is the general public. It is expected that students will revise this paper and incorporate additional learning from NUTR 522 and 562 spring quarter before submission in the portfolio if appropriate.

F. Presentation:

Select one PowerPoint presentation that represents your capabilities for a scientific presentation. The PowerPoint presentation should be drawn from a core nutrition course (NUTR 520, 521, 522, 531 or 562). It should be provided in a size that is large enough for easy reading and understanding. It should represent your work as an individual and not be a result of a group project. It should follow standard guidelines for PowerPoint Presentations:

- Limited number of words on each slide
- Adequate font size
- Key words, not full sentences that are read as part of the presentation
- No distracting design elements
- No more than three slides in a row with the same layout (for example, not just bullets, just graphs or just illustrations)

Appendix O: Proposal for Minor in Nutritional Sciences (Approved 3/13)

Proposal for Undergraduate Minor in Nutritional Sciences

Received Approval March 5, 2013

II. Mission

The mission of undergraduate minor in Nutritional Sciences will be:

- To provide undergraduates a foundation of knowledge in the study of nutritional sciences, with a unique focus on the intersection of food, food systems and population health.
- To provide a comprehensive perspective on the field of nutritional sciences including its metabolic/biochemical, behavioral, and public health aspects.
- To examine food and nutrition related policies, practices and environments and their effects on population health and health disparities through the life course.

III. Need

The rates of diet-related non-communicable diseases are rising both in the US and worldwide. Studies of socioeconomic determinants of health point to growing disparities in health and body weight. At the same time, there is increased public and professional interest in sustainable agriculture, nutrition economics, biotechnology, global food marketing, social justice and food policy. These are compelling reasons to increase in the number of nutrition professionals to plan, implement, and evaluate our approach to health, resource and food systems management.

- Obesity rates continue to increases, especially among disadvantaged groups, yet communities lack professionals to assist in prevention planning and management of obesity and its consequences: diabetes, hypertension and heart disease.
- Communities are advocating for the use of fresh local produce and sustainable agriculture but at the same time segments of these communities struggle with the high cost of fruits and vegetables and the growing gap in health disparities and access to a healthy diet.
- The public is increasingly taking an interest in obesity, wellness, food safety, biotechnology, supplements and the environmental implications of consumption. This has created demand for experts trained in all aspects of evidenced-based nutrition concepts.
- Evidence suggestions that food marketing practices aimed at children influence lifelong dietary preferences and may reduce the impact of traditional nutrition education efforts.
- The threats to our food supply from unintentional foodborne illness and bioterrorism require sustained efforts in prevention planning, surveillance, response and recovery.
- The public is bombarded with often misleading or contradictory nutrition messages and would benefit from more professionals with an evidenced-based understanding of sorting facts from fiction.

- Developing countries now deal with both the health and economic burden of under-nutrition (lack of safe food and nutritional deficiencies) and over-nutrition (rapid transition to diets high in fat and sugar with rising rates of obesity and chronic disease).

There is an unmet need for health and evidenced-based nutrition professionals; as well as consumers with a foundation in nutritional sciences who can translate information for their communities and develop solutions that encompass all aspects of consumption and health.

The undergraduate minor in Nutritional Sciences will:

- Provide a foundation in the applied science of nutrition that incorporates elements of basic and nutritional science, food systems, disease prevention and public health policy.
- Provide core nutrition and food classes to complement basic science for students majoring in biology, chemistry, pre-med and other pre-professional disciplines.
- Provide coursework to students majoring in liberal arts degrees who are also interested in this burgeoning field but who currently have limited exposure to nutritional sciences.
- Expand opportunities on campus for leadership on the role of nutrition, physical activity, and food systems to attain a critical mass of informed leaders to influence policy development and implementation.

IV. Target Student Population

Future students will be drawn from three core groups:

1) Students currently majoring in science-related disciplines who have a strong interest in nutrition.
2) Students in liberal arts who wish to broaden their knowledge base through a concentration of courses in nutrition.
3) Undergraduate students enrolled in the Public Health Major through the School of Public Health.

Students currently taking the undergraduate nutrition courses come from a wide variety of majors. Given this, the proposed minor is not expected to pull a significant number of students from the undergraduate public health track. The variety of student backgrounds in current nutrition courses is indicative of the broad-based appeal of nutritional sciences coursework.

We anticipate an enrollment of 125 undergraduate students per year, which is consistent with the enrollment at other large higher education programs.

V. Benefits to SPHCM, UW, Washington State

The Undergraduate Minor in Nutritional Sciences is a key component of the strategic plan for leadership in the growing field of nutrition. It is directly related to the strategic objectives of the School in the areas of obesity, food, and physical activity. The Minor will:

- Meet the growing student interests in nutrition and health as a professional field and community resource.
- Provide necessary discipline-specific courses to complement the offerings in the SPHCM and across campus.
- Reestablish the missing link in transdisciplinary education in health as a science, social phenomenon, and applied profession that was lost in the 1980 when the previous undergraduate program in nutrition was eliminated.
- Complement the consolidation in nutrition education that is planned at Washington State University.

VI. Benefits to Students

Advisors in the Office of Undergraduate Education have reported a high level of interest in nutrition as a minor and the Nutritional Sciences Program and School of Public Health have already received inquiries from students interested in the minor. Based on the electives selected, students can opt to take a concentrated nutritional sciences curriculum or select courses that more broadly examine nutrition related policies, practices and environments and their effects on population health and health disparities. The minor will complement other science degrees, liberal arts degrees, or pre-professional programs. The minor in nutrition is likely to appeal to students in public health and health sciences. The minor also provides a structured curriculum for students from other fields who are interested in nutrition and health and may be considering advanced studies in the field.

Minor Curriculum

Includes pending changes under review by SPH and UW Curriculum Committees as of January 2015

# Required Credits – Total	Minor: 25 credits
Required Courses	**CORE REQUIREMENTS (11-12 CREDITS)** NUTR 200 (formerly 300) Nutrition for Today (4)(A,W) NUTR 400 (formerly 490) Nutrition Seminar (1, max 4)(A,W) Two courses selected from the following: NUTR 302 Food Studies: Harvest to Health (3)(Sp) NUTR 303 Neighborhood Nutrition (3)(W) NUTR 310 Nutrition and the Life Course (4)(Sp) **ELECTIVE COURSEWORK (TO TOTAL 25 CREDITS)** Please note: • Additional quarters of NUTR 400 or course selections in the list above (NUTR 302, 303, 310) may be used as electives if they are not counted toward the core requirements. NUTR 302 ** Food Studies: Harvest to Health (3)(Sp) **IF NOT APPLIED TO CORE REQUIREMENTS NUTR 303 ** Neighborhood Nutrition (3)(W) **IF NOT APPLIED TO CORE REQUIREMENTS NUTR 310 ** Nutrition and the Life Course (4) (Sp) **IF NOT APPLIED TO CORE REQUIREMENTS NUTR 400 ** Nutrition Seminar (1) **IF NOT APPLIED TO CORE REQUIREMENTS

	NUTR 405	Physical Activity in Health and Disease (3)
	NUTR 406	Sports Nutrition (3)
	NUTR 411	Diet in Health and Disease (3)
	NUTR 412	United States Food and Nutrition Policy (3)
	NUTR 420	Global Nutrition: Challenges and Opportunities (3)
	NUTR 441	Molecular Gastronomy: The Science of Food (3) PCE course
	NUTR 446	Food Safety and Health (3)
	NUTR 465/ BIO A 465	Nutritional Anthropology (3)
	ANTH 361	Anthropology of Food (5)
	ENV H 441	Food Protection (3)
	EPI 320	Introduction to Epidemiology (4)
	GEOG 271	Geography of Food and Eating (5)
	GEOG 371	World Hunger and Agricultural Development (5)
	GEOG 380	Geographical Patterns of Health and Disease (5)
Other Academic Requirements	A minimum of 13 credits must be taken from the School of Public Health (NUTR, ENV H, or EPI courses). A minimum of 15 credits must be completed in 300- and 400-level courses. A minimum of 15 credits applied towards the minor must be completed in residence at the University of Washington. A minimum of 15 credits applied to the minor must be taken outside of the student's major requirements. This means these classes may not apply both to the satisfying major requirements and minor requirements. Minimum cumulative 2.0 GPA needed for courses presented for the minor. Students must declare a major and have completed a minimum of 45 credits before declaring a minor. Students must have the major adviser sign off on minor declaration paperwork to ensure satisfactory progress requirements are met.	

Appendix P: Nutritional Sciences Courses Used by Other UW Majors and Minors

Biology: General
Advanced Electives
- NUTR 300
- NUTR 405
- NUTR 406

Biology: Physiology
Advanced Electives
- NUTR 300
- NUTR 405
- NUTR 406

Early Childhood and Family Studies
Electives
- NUTR 300
- NUTR 303
- NUTR 310
- NUTR 405
- NUTR 412

Environmental Health
Electives
- NUTR 300
- NUTR 405

Global Health Minor
Electives
- NUTR 300
- NUTR 302
- NUTR 465

Nursing
Prerequisite
- NUTR 300

Public Health
Application Minimum Requirement
- NUTR 300

Electives
- NUTR 302
- NUTR 303
- NUTR 405
- NUTR 406
- NUTR 411
- NUTR 420
- NUTR 446