Jennifer Nemhauser

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APPOINTMENTS

Assistant Professor, Department of Biology, 2006-present
University of Washington, Seattle

Faculty Member, Molecular and Cellular Biology Program 2006-present
University of Washington, Seattle

PROFESSIONAL PREPARATION

Postdoctoral Fellow, Salk Institute, CA, Dr. Joanne Chory 2000-2006
Hormone networks controlling seedling development.

Graduate Student, University of California, Berkeley, Dr. Patricia Zambryski 1995-2000
Phytohormone regulation of organogenesis in flowers.

Research Assistant, Whitehead Institute, MA, Dr. Eric Lander 1993-1995
Positional cloning of the mouse mutations *nude* and *vibrator.*

Undergraduate Thesis Student, Wellesley College, MA, Dr. T. Kaye Peterman 1992-1993
Characterization of the *Arabidopsis thaliana LOX1* promoter.

EDUCATION

University of California, Berkeley, CA. 1995-2000
Ph.D in Plant Biology, August 2000.

Wellesley College, Wellesley, MA. 1989-1993
B.A. in Biological Sciences, *magna cum laude*, May 1993.

Hebrew University, Jerusalem, Israel. 1991-1992

SELECTED PUBLICATIONS (graduate students indicated in italics)

Walcher C and Nemhauser J. Auxin and brassinosteroids require the same cis-regulatory elements to promote gene expression, *manuscript in preparation*.
JLN designed, executed, analyzed experiments; writing the paper as corresponding author

Lachowiec J, Nemhauser J, and Queitsch C. Brassinosteroid growth promotion depends on HSP90-regulation of BES1, *manuscript in preparation.*
JLN designed and analyzed experiments; writing the paper

Stewart J, Maloof J, and Nemhauser JL. Sucrose requires PIF function to promote seedling growth. *under re-review at Plant Physiology*.
JLN designed and analyzed experiments; wrote the paper as corresponding author

Stewart JL, Nemhauser JL.(2010) Do trees grow on money? Auxin as the currency of the cellular economy. *Cold Spring Harb Perspect Biol*. 2:a001420.
JLN wrote the paper as corresponding author

Lohmann JU, Nemhauser JL. (2009) Cell signalling and gene regulation. *Curr Opin Plant Biol*.12:517-9.
JLN wrote the paper as co-corresponding author

Kuppusamy KT, Chen AY, Nemhauser JL. (2009) Steroids are required for epidermal cell fate establishment in *Arabidopsis* roots. *Proc Natl Acad Sci*. 106:8073-6.
JLN designed, executed, analyzed experiments; wrote the paper as corresponding author

Kuppusamy KT, *Walcher CL*, Nemhauser JL. (2009) Cross-regulatory mechanisms in hormone signaling. *Plant Mol Biol*. 2009 69:375-81.
JLN wrote the paper as corresponding author

Vert G, *Walcher CL*, Chory J, Nemhauser JL, (2008) Integration of auxin and brassinosteroid pathways by AUXIN RESPONSE FACTOR 2. *Proc Natl Acad Sci*, 105: 9829-34.
JLN designed, executed, analyzed experiments; wrote the paper as corresponding author
Faculty of 1000 Must Read (6.0)

Nemhauser JL. (2008) Dawning of a new era: photomorphogenesis as an integrated molecular network. *Curr Opin Plant Biol*, 11:4-8.
JLN wrote the paper as corresponding author

Nemhauser JL*, Hong F*, and Chory J (2006) Different plant hormones regulate similar processes through largely non-overlapping transcriptional responses. *Cell* 126:467.
JLN designed, executed, analyzed experiments; wrote the paper
*co-first authors; **Faculty of 1000 Recommended (3.2)**

Hong F, Breitling R, McEntee CW, Wittner BS, Nemhauser JL, and Chory J. (2006) RankProd: a bioconductor package for detecting differentially expressed genes in meta-analysis. *Bioinformatics* 22:2825.
JLN designed and analyzed experiments

Vert G*, Nemhauser JL*, Geldner N*, Hong F, Chory J. (2005) Molecular mechanisms of steroid hormone signaling in plants. *Annu Rev Cell Dev Biol* 21:177-201.
*co-first authors
JLN designed and analyzed experiments; wrote the paper

Nemhauser JL, Chory J. (2005) A new FronTIR in targeted protein degradation and plant development. *Cell* 121:970-2.
JLN wrote the paper

Nemhauser JL, Mockler TC and Chory J. (2004) Interdependency of brassinosteroid and auxin signaling in Arabidopsis. *PLoS Bio* 2:1460-71.
JLN designed, executed, analyzed experiments; wrote the paper
Faculty of 1000 Must Read (6.0)

Nemhauser JL and Chory J. (2004) BRing it on: new insights into the mechanism of brassinosteroid action. *J Exp Bot* 55: 265-70.
JLN wrote the paper

Nemhauser J, Maloof JN, Chory J. (2003) Building integrated models of plant growth and development. *Plant Physiology* 132:436-9.
JLN designed, executed, analyzed experiments; wrote the paper

Friedrichsen DM*, Nemhauser J*, Muramitsu T, Maloof JN, Alonso J, Ecker JR, Furuya M, Chory J. (2002) Three Redundant Brassinosteroid Early Response Genes Encode Putative bHLH Transcription Factors Required for Normal Growth. *Genetics* 162: 1445-56.
JLN designed, executed, analyzed experiments; wrote the paper
*co-first authors

Nemhauser J and Chory J. (2002) Photomorphogenesis. *The Arabidopsis Book*, eds, Somerville C and Meyerowitz, E. http://www.aspb.org/publications/arabidopsis/
JLN wrote the paper

Nemhauser JL, Feldman LJ, Zambryski PC. (2000) Auxin and ETTIN in Arabidopsis gynoecium morphogenesis. *Development* 18: 3877-88.
JLN designed, executed, analyzed experiments; wrote the paper

Nemhauser JL, Zambryski PC, Roe JL. (1998) Auxin signaling in Arabidopsis flower development? Commentary. *Current Opinion In Plant Biology* 1: 531-535.
JLN wrote the paper

Sessions A, Nemhauser JL, McColl A, Roe JL, Feldmann KA, Zambryski PC. (1997) *ETTIN* patterns the Arabidopsis floral meristem and reproductive organs. *Development* 124: 4481-4491.
JLN executed and analyzed experiments; wrote the paper

Roe JL, Nemhauser JL, Zambryski PC. (1997) *TOUSLED* participates in apical tissue formation during gynoecium development in Arabidopsis. *Plant Cell* 9: 335-353.
JLN designed, executed, analyzed experiments

SELECTED HONORS and AWARDS

Faculty speaker at Tri-Beta Biology Honor Society Induction Ceremony	2009
Keystone Scholarship, Keystone Symposium, Tahoe City, CA	2002
Ruth L. Kirschstein National Research Service Award, National Institutes of Health	2000-2003
Outstanding Graduate Student Instructor	1996

COURSES

Introductory Biology, Molecular and Cellular Biology (BIOL200)
Advanced Cell Biology (BIOL401)
Graduate Seminar in Developmental Biology (BIOL 540C/ MCB 513A)
Graduate Course in Scientific Communication (BIOL502)

PROFESSIONAL and UNIVERSITY SERVICE

National Science Foundation *ad hoc* reviewer (2007, 2008, 2009, 2010)
Retreat and Faculty Annual Meeting Committee, Department of Biology (2010)
Cellular and Molecular Biology Training Grant Selection Committee,
representative from Department of Biology (2008, 2010)
Invited Speaker at Panel on NSF Graduate Fellowships, UW College of Engineering (2010)
Consultant, UW Department of Human Centered Design & Engineering,
Scientific Communication class modeled after BIOL 502 (2010)
Consultant, UW Department of Genome Sciences,
Scientific Communication class modeled after BIOL 502 (2010)
Reviewer, Royalty Research Fund applications (2008, 2009, 2010)
Panelist for HHMI Future Faculty Fellows (2007, 2008, 2009, 2010)
Panel Service for National Science Foundation (2009)
Panel Service for Department of Energy (2009)
Session Chair, Northwest Developmental Biology Meeting (2009)
Guest Editor, *Current Opinion in Plant Biology* (October 2009)
Moderator for Undergraduate Research Symposium (2009)
Seminar for Biology majors, Department of Biology (2009)
International Genetically Engineered Machine Team, guest lecture (2009)
Faculty Appointments Committee, Department of Biology (2008, 2009)
Session Chair, Keystone Symposium on Plant Hormones and Signaling (2008)
Organized SafeZone Workshop for Biology Faculty (2008)
Seminar Committee, Department of Biology (2007)
Brown Bag Lunch Lecture on personal career path for Biology Majors (2007)
Hiring Committee for BIOL200 Coordinator, Department of Biology (2007)
Reviewer for: *Science, Nature, PLoS Biology, Proc Natl Acad Sci*, *Genes & Development, Development, Genetics, Bioessays, Plant Cell, Plant Physiology, The Plant Journal, Plant, Cell & Environment*.

OUTREACH

Co-founder of Seattle Area Model Plant Labs (http://protist.biology.washington.edu/sampl/)
Organize and host quarterly seminar series (2006-present)
Participant in National Laboratory Day, 2010
Lab tours for local 5th graders
Expert reviewer for material on plant hormones used for teaching materials
Teaching Tools in Plant Biology, a series published in Plant Cell Spring 2010
Human Subjects approved study on how graduate students make career decisions (2008-present)
Collaboration with Center for Workforce Development.
Participant in Expanding Your Horizons Seattle (2009, 2010)
Design and run hands-on science workshop for middle school girls
Lab members act as docents for UW Greenhouse and Medicinal Herb Garden.
Hosted local high school student for Career Day (2008)