nanoDDS

13th INTERNATIONAL NANOMEDICINE & DRUG DELIVERY SYMPOSIUM

Short Program

September 16 - 18, 2015

University of Washington, Seattle, USA

Symposium Agenda

Welcome to the 13th International Nanomedicine and Drug Delivery Symposium at the University of Washington! All events take place in Kane Hall Auditorium 210 unless otherwise indicated.

Wednesday, September 16

8:00 – 9:00	Registration and Continental Breakfast (Second Floor Lobby)

Session I: Biological-Based Targeting and DDS

Allan Hoffman, Chair

9:00 – 9:15	Welcome and Opening Remarks Suzie Pun and Patrick Stayton, University of Washington
9:15 – 10:00	Keynote Talk: *Engineering Protein Nanocarriers: Design of Protein Interaction Inhibitors and Self Assembling Nanocages* David Baker, University of Washington, USA
10:00 – 10:30	*Potent Antibody-Based Conjugates for Cancer Therapy: From Early Stage Research to a Clinically Approved Drug* Peter Senter, Seattle Genetics, USA
10:30 – 10:50	Break (Second Floor Lobby)
10:50 – 11:20	*Tumor Targeting: Wishful Thinking v. Reality* K. Dane Wittrup, MIT, USA
11:20 – 11:50	*Shaping Plant Virus-Based Nanomaterials for Applications in Medicine* Nicole Steinmetz, Case Western Reserve University, USA
11:50 – 12:00	*Demonstrating the Uptake Mechanism of Cisplatin in Cells by Single Cell ICP-MS* Stan Smith, PerkinElmer, USA
12:00 – 1:00	Lunch (By George Café)

Session II: Nucleic Acid Delivery DDS

Tatiana Bronich and David Oupicky, Chairs

1:00 – 1:30 *Drug Delivery with Nanoparticles for Cancer Stem Cell Therapy*

Jun Wang, University of Science and Technology, China

1:30 – 2:00 *Polymeric Nanomaterials for Gene and Vaccine Delivery*

Chun Wang, University of Minnesota, USA

2:00 – 2:30 *Challenges and Opportunities in the Clinical Translation of Nucleic Acid Nanomedicines*

Paul Burke, Burke Bioventures, USA

2:30 – 3:00 Break (Second Floor Lobby)

3:00 – 3:30 *Drug Delivery through the Ultrasound-Induced Opening of the Blood-Brain Barrier*

Elisa Konofagou, Columbia University, USA

3:30 – 4:20 Rapid Fire Poster Presentations

Intracellular Trafficking and Endosomal Escape of Nanoparticles for mRNA Delivery (Poster Session 1, # 49)

Gaurav Sahay, Oregon State University, USA

Syndecan-1 Conjugated Mesoporous Silica-Coated Gold Nanorods Act as Optoacoustic Signal Amplifiers for Detection of Orthotopic Pancreatic Tumors in Vivo Via Multispectral Optoacoustic Tomography (Poster Session 2, # 22)

Lacey McNally, University of Louisville, USA

Chemotherapeutic Caterpillar Conjugates (Poster Session 2, #36)

Anthony Convertine, University of Washington, USA

Neutrophil-mediated Drug Delivery (Poster Session 2, #15)

Zhenjia Wang, Washington State University, USA

Self-Assembled Cholesteryl Albumin Nanoparticles Enhance Tumor Accumulation of Paclitaxel (Poster Session 1, #13)

Gantumur Battogtokh, Gachon University, Korea

4:20 – 4:30	*Quidel Specialty Products Group* Julie Garrels, Quidel, USA
4:30 – 5:00	*Stimuli-Responsive Nanoparticles for Smart Drug and Gene Delivery* Won Jong Kim, POSTECH, Korea
5:00 – 6:30	Poster Session 1 (Walker-Ames Room)

Thursday, September 17

8:00 – 9:00	Continental Breakfast (Walker Ames Room)

Session III: Polymer DDS

Sonke Svenson and Wim Hennik, Chairs

9:00 – 9:45	Keynote Talk: *Self-Assembled Supramolecular Smart Nanosystems for Targeted Drug Delivery* Kazunori Kataoka, University of Tokyo, Japan
9:45 – 10:15	*Exploring the Use of Light in Drug Delivery Science* Stefaan De Smedt, University of Ghent, Belgium
10:15 – 10:45	Break (Walker-Ames Room)
10:45 – 11:15	*Nanogel-Incorporated Physical and Chemical Gels for Highly Effective Chemo-Protein Combination Therapy* Xuesi Chen, Changchun Institute of Applied Chemistry, China
11:15 – 11:45	*Self-Assembled Glycopolymers for the Delivery of Drugs* Martina Stenzel, University of New South Wales, Australia
11:45 –11:55	*Well-defined Polymers for Biomedical Applications and Their Confirmation by MALDI-TOF* Nicolynn E. Davis, Sigma Aldrich, USA
12:00 – 1:00	Lunch (By George Café)

Session IV: Imaging and Image-Guided Therapy

Sasha Kabanov and Rachel Johns, Chairs

1:00 – 1:30	*Determinants of Efficacy of a Heat-activated Thermosensitive Liposome Formulation of Cisplatin in Models of Cervical, Breast and Lung Cancer* Christine Allen, University of Toronto, Canada
1:30 – 2:00	*Nanomedicine and Theranostics* Twan Lammers, University Hospital Aachen, Germany
2:00 – 2:30	*Ultrasound-Assisted Drug Delivery Systems* Tyrone Porter, Boston University, USA
2:30 – 3:00	*Imaging with Multi-Functional Nanoparticles* Xiaohu Gao, University of Washington, USA
3:00 – 3:10	*Medical Grade Carbon Nanotubes* Herschel Watkins, Bio-Pact, USA
3:10 – 3:20	*Advancing Nanomedicine Development through Precise and Accurate Characterization of Drug Delivery Nanoparticles Using TRPS* Subhash Kalluri, Izon Inc., USA
3:20 – 3:30	Announcement of Poster Competition Winners
3:30 – 5:00	Poster Session 2 (Walker-Ames Room)
5:30	Shuttle to UW Waterfront Activities Center (Meet at the George Washington Statue)
6:00	Conference Dinner Banquet and Cruise for Registered Participants (UW Waterfront Activities Center Dock)
9:30	Shuttle Back to Conference Hotels from UW Waterfront Activities Center

Friday, September 18

8:00 – 9:00 Continental Breakfast (Walker-Ames Room)

Session V: Immunotherapy DDS

Honggang Cui and Lacey McNally, Chairs

9:00 – 9:30 *Structured Polymers for Vaccine Delivery*

Almar Postma, CSIRO Melbourne, Australia

9:30 – 10:00 *Engineering Immunity with Hitchhiking Therapeutics*

Darrell Irvine, MIT, USA

10:00 – 10:30 *Orchestrating the Immune Response Using Modular Nanomaterials for Autoimmunity and cancer immunotherapy*

Tarek Fahmy, Yale University, USA

10:30 – 10:45 Break (Walker-Ames Room)

10:45 – 11:15 *High-throughput Polymer Screening for Biological Delivery: From Discovery to Design*

Theresa Reineke, University of Minnesota, USA

11:15 – 11:45 *Intelligent Tailor-Made Adenovirus Using Nanocarriers for Cancer Gene Therapy*

Chae-Ok Yun, Hanyang University, Korea

11:45 – 11:55 *The NanoAssemblr™ Platform: Microfluidic Manufacture of Liposomes and Nanoparticles*

Gesine Heuck, Precision NanoSystems

11:55 – 12:00 Closing Remarks

Suzie Pun and Patrick Stayton, University of Washington

Poster Sesssion 1: Wednesday, September 16, 5:00 - 6:30 pm

Biological-Based Targeting and DDS			
1	*Protein Polymer Architecture Modulates Drug Entrapment and Release*	*Jugal Dhandhukia*	*University of Southern California*
2	*Super-resolution imaging and quantitative analysis of membrane protein/lipid raft clustering mediated by cell surface self-assembly of hybrid nanoconjugates*	*Jonathan Hartley*	*University of Utah*
3	*Nano-formulation of BDNF: A Potential Therapy for Rett syndrome*	*Yuhang Jiang*	*University of North Carolina at Chapel Hill*
4	*Targeted delivery of antibody-conjugated ferritin nanocages directed to pulmonary endothelium*	*Makan Khoshnejad*	*University of Pennsylvania*
5	*Optimizing PolySTAT: Varying Peptide Content to Maximize Fibrin Crosslinking*	*Robert Lamm*	*University of Washington*
6	*Identifying peptide ligands by phage display and next-generation sequencing: a retrospective approach*	*Gary Liu*	*University of Washington*
7	*Development of a model system to gain insights into active nanoparticle targeting*	*Janni Mirosevich*	*Intezyne*
8	*Clustering of receptors enables lysosomal delivery of therapeutic proteins and degradation of oncogenic receptors*	*Paul Moody*	*Cardiff University*
9	*Targeted PEGylated Nanoparticles for Maternal Pulmonary Delivery during Pregnancy*	*Sanaalarab Al-Enazy*	*University of Texas Medical Branch*
10	*In vitro and in vivo characterization of Raw 264.7 macrophages-derived exosomes as brain delivery nanovectors*	*Dongfen Yuan*	*University of North Carolina at Chapel Hill*
Formulation and Characterization			
11	*Effect of Cryo-Protectants on Size Stability and Preservation of Coated and Uncoated Chitosan Nanoparticles after lyophilization.*	*Ibrahim Alradwan*	*King Abdulaziz City for Science and Technology (KACST)*
12	*Measuring The Unique Absorbance/Scattering Characteristics Of Metallic Nanoparticles*	*Toby Astill*	*PerkinElmer*
13	*Self-Assembled Cholesteryl Albumin Nanoparticles Enhance Tumor Accumulation of Paclitaxel*	*Gantumur Battogtokh*	*Gachon University*
14	*Lung Targeting of Angiotensin Receptor Blockers for COPD Lung Injury*	*Jane Chisholm*	*Johns Hopkins University*
15	*Wearable Microprojection Array Skin Patches for Improved Biomarker Sampling from Skin*	*Jacob Coffey*	*University of Queensland*
16	*Evaluating the Role of Particle Surface Properties on their Distribution and Cellular Association Following Pulmonary Delivery*	*Catherine Fromen*	*University of Michigan*
17	*Microdialysis method to determine delivery rates from programmable carbon nanotube membrane-based transdermal delivery device*	*Gaurav Gulati*	*University of Washington*
18	*Use of AF4-MALS to prove the mechanism of action of the silver-nanolipid complex*	*Wafa Hassouneh*	*Wyatt Technology Corp.*
19	*Radiosensitization effects of cisplatin-conjugated gold nanoparticles in triple negative breast cancer*	*Sohyoung Her*	*University of Toronto*
20	*Nanoparticle Formulation of Orlistat Improves Drug Stability and Cytotoxicity Against Human Cancer Cell Lines*	*Tanner Hill*	*University of Nebraska Medical Center*
21	*Physicochemical characterization, in vivo evaluation, and hepatoprotective activity of silymarin-loaded solid nanoparticle*	*Duhyeong Hwang*	*University of North Carolina at Chapel Hill*
22	*Synthesis of heterogeneous gold nanoparticle clusters in aqueous media using electrostatic attraction and controlled steric interactions.*	*Ryan Kastilani*	*University of Washington*

23	*PEGylation of BSA-drug nanoparticles and site elucidation of PEGylation on BSA-drug nanoparticle using LC-MS*	*Achyut Kathuria*	*Campbell University*
24	*Characterisation and potential applications of Chitosan–lignosulfonates sono-chemically prepared nanoparticles*	*Suyeon Kim*	*Pontificia Universidad Católica del Perú*
25	*Polymer functionalized and surface modified Quantum Dots as Hybrid Systems for Biomedical Studies*	*Redouane Krini*	*Johannes-Gutenberg-University Mainz*
26	*Preparation and characterisation of SmarCrystals of aprepitant and ibuprofen by combinative method*	*Gupta Koteshwara Kunnatur Balasundara*	*Manipal College of Pharmaceutical Sciences*
27	*Recanilization of blood clots using amphiphilic gold nanoparticle stabilized Pickering emulsions*	*Yi-Ting Lee*	*University of Washington*
28	*Coenzyme Q10 Adsorption on Carbon Aerogels*	*Sandeep Manandhar*	*University of Washington*
29	*Formation Of Phytosome Containing Silymarin Using Thin Layer-Hydration Technique Aimed For Oral Delivery*	*Wina Maryana*	*Institut Teknologi Bandung*
30	*Preparation, characterization, in vitro and in vivo evaluation of nanoparticles of erlotinib*	*Chander Parkash*	*NIPER, S.A.S. Nagar, India*
31	*Light responsive nanocarriers for light controlled gene therapy*	*Rishav Shrestha*	*National University of Singapore, Grad School for Integrative Sciences and Engineering*
Lipid DDS			
32	*Liposome Based Vectors for Cytosolic Delivery of Macromolecules*	*Anna Brown*	*Oregon State University*
33	*Transcription in nanoliposomes that can be endocytosed by human platelets*	*Vivienne Chan*	*University of British Columbia*
34	*Development and characterization of lipidic nanoparticles for an antiepileptic drug*	*Silki Kumar*	*University Institute of Pharmaceutical Sciences, Panjab University*
35	*Fusogenic targeted liposomes as next-generation nanomedicines for Prostate Cancer*	*Jihane Mriouah*	*University of Alberta*
36	*Development of lipid nanoparticles for treatment of osteoporosis*	*Mina Ordobadi*	*University of British Columbia*
37	*Development and characterization of liposomal drug delivery system for prodrugs of vinca alkaloids.*	*Vidhi Shah*	*Oregon State University*
38	*Mixed lipid/peptide vesicles bearing stealth and targeting motifs: a biomimetic delivery system tailored to cancer therapy*	*Giovanni Signore*	*CNI@NEST Istituto Italiano di Tecnologia*
Nucleic Acid Delivery			
39	*Fibrillar nanocarbon-mediated delivery of siRNA prevents acute kidney injury*	*Simone Alidori*	*Memorial Sloan Kettering Cancer Center*
40	*Sunflower pDMAEMA-based polycations as effective gene transfer vehicles*	*Yilong Cheng*	*University of Washington*
41	*Polypept(o)ides as novel non-viral Vectors for Gene Therapy*	*Philipp Heller*	*Institute of Organic Chemistry, Johannes Gutenberg University Mainz*
42	*Porous Silicon Nanoparticles for Targeted Delivery of siRNA*	*Jinmyoung Joo*	*University of California, San Diego*
43	*Development of Targeted "Smart" Particles for Silencing Breast Cancer Metastases*	*Neha Kausal*	*University of Michigan*
44	*Microfluidic synthesis of helper-lipid-enhanced lipid nanoparticles for intracellular delivery of plasmid-DNA*	*Jayesh Kulkarni*	*University of British Columbia*
45	*Nanocarriers for Gene Therapy: Recent approches*	*Tariq Mahmood*	*University of Central Punjab*
46	*Engineering platelets for the delivery of mRNA*	*Stefanie Novakowski*	*University of British Columbia*
47	*Enhanced Gene Delivery to a Kidney-derived Cell Line with Gentamicin-conjugated PEI-based Nanoparticles*	*Fatemeh Oroojalian*	*University of Minnesota*

48	*Lipid Nanoparticles Encapsulating siRNAs Against the Androgen Receptor to Treat Advanced Prostate Cancer*	*Joslyn Quick*	*University of British Columbia*
49	*Intracellular Trafficking and Endosomal Escape of Nanoparticles for mRNA Delivery*	*Gaurav Sahay and Anna Lorenz*	*Oregon State University*
50	*A Combinatorial Approach for the Treatment of Ovarian Cancer Using Gene and Chemotherapies*	*Canan Schumann*	*Oregon State University*
51	*Microbubbles and Ultrasound Improve Polymeric Gene Delivery to the Brain*	*James-Kevin Tan*	*University of Washington*
52	*Tracking the Transport of Intact DNA in Gene Delivery using FRET Labeled Beacons*	*Sriram Vaidyanathan*	*University of Michigan*
53	*Niemann-Pick C1 inhibitor enhances intracellular retention and gene silencing capability of lipid nanoparticle formulations of siRNA*	*Haitang Wang*	*University of British Columbia*
54	*Evaluation of Tween 85 Modified Polyethylenimines for Antisense oligomer Delivery*	*Mingxing Wang*	*Carolinas Medical Center*

Poster Sesssion 2: Thursday, September 17, 3:30 - 5:00 pm

Immunotherapy DDS			
1	*Nanostructured glycopolymer-functional liposomes to elucidate carbohydrate receptor mediated targeting*	*Jasmin Chen*	*University of Washington*
2	*Development of a drug delivery system based on surface modifications for efficient lymphatic uptake to treat metastatic melanoma*	*Bhuvana Doddapaneni*	*Oregon State University*
3	*Development of dual functional nanoparticles to orally deliver siRNA for treatment of Inflammatory Bowel Disease*	*Shrey Kanvinde*	*University of Nebraska Medical Center*
4	*Biodegradable PEG Nanocarriers Build from PEG-Acetal-Dimethacrylates for Specific Immunotherapy*	*Hannah Koehring*	*Institute of Organic Chemistry, University of Mainz*
5	*Multivalent M2pep for improving selective toxicity to M2-like tumor associated macrophages*	*Chayanon Ngambenjawong*	*University of Washington*
6	*Nanoparticle functionalized biodegradable polymer for immune-mediated enhancement of wound healing*	*Emeka Okeke*	*University of Manitoba*
7	*Development of Anti-Inflammatory Nanoparticles for Inflammatory Diseases*	*Hong Yang*	*Child & Family Research Institute, University of British Columbia*
8	*Improved local delivery of HIV nanotherapies to the colorectum*	*Taarika Babu*	*Johns Hopkins School of Medicine*
9	*Lipid-coated PLGA nanoparticles conjugated with a dual-function antibody for targeted delivery of ARVs to $\alpha 4\beta 7$ expressing T cells*	*Shijie Cao*	*University of Washington*
10	*Nanoparticles of immune-tolerant elastin-like polypeptide (iTEPs) for delivering CTL vaccine*	*Shuyun Dong*	*University of Utah*
11	*A Potent Anti-inflammatory Agent Targeting Toll-Like Receptor Signaling Identified from Marine Sponge Extracts*	*Shan-Yu Fung*	*University of British Columbia, Child & Family Research Institute*
12	*Dendritic cell presentation of class II antigen delivered by PLG nanoparticles favors immune tolerance*	*Robert Kuo*	*University of Michigan, Ann Arbor*
13	*Antibodies/Peg-Protein A Complex As A New Targeted Drug Delivery System*	*Gianfranco Pasut*	*University of Padova*
14	*Polymeric CXCR4 Antagonists for Inhibiting Breast Cancer Growth and Metastasis*	*Zheng-Hong Peng*	*University of Nebraska Medical Center*
15	*Neutrophil-mediated Drug Delivery*	*Zhenjia Wang*	*Department of Pharmaceutical Sciences, Washington State University*
Imaging and Image-Guided DDS			
16	*Magnet-Optical nanoparticles for Magnetomotive Photoacoustic Imaging*	*Junwei Li*	*University of Washington*
17	*Development of Next Generation Magnetic Nanohybrids for Theranostics*	*Souvik Biswas*	*Life Sciences Institute, University of British Columbia*
18	*Indocyanine Green-Loaded Nanoparticles Improve Tumor Contrast for Image-Guided Surgery*	*Tanner Hill*	*University of Nebraska Medical Center*
19	*Radiation-Sensitized Nanocarriers for Triggered Drug Delivery and Radiation Dose Monitoring*	*Marc Kai*	*Oregon State University*
20	*A Nanotheranostic System for delivery of Tumor Site "Turn-on" Imaging Agent*	*Xiaoning Li*	*Oregon State University*
21	*Targeted polymeric micelles facilitate detection of ovarian cancer using multispectral optoacoustic tomography*	*Lacey McNally*	*University of Louisville*
22	*Syndecan-1 conjugated mesoporous silica-coated gold nanorods act as optoacoustic signal amplifiers for detection of orthotopic pancreatic tumors in vivo via multispectral optoacoustic tomography*	*Lacey McNally*	*University of Louisville*

23	*Poly(2-oxazoline) based magnetic fields-responsive hybrid nanoclusters for taxane delivery*	*Youngee Seo*	*Eshelman School of Pharmacy, University of North Carolina*
24	*A Multifunctional Theranostic Nanoplatform for Cancer Treatment*	*Oleh Taratula*	*Oregon State*
25	*Development of Antibody-Conjugated Iron Oxide Nanoworms for Targeting HER2 Positive Breast Cancer Cells and Endothelial Cells*	*Guankui Wang*	*University of Colorado Denver | Anschutz Medical Campus*
26	*Single-cell mRNA and protein profiling with quantum dots*	*Pavel Zrazhevskiy*	*University of Washington*
27	*Nanodroplet Mediated Histotripsy (NMH) Cell Ablation on 3D Prostate Cancer Models*	*Omer Aydin*	*University of Michigan*
Polymer DDS			
28	*Development of "Smart" Targeted Micelles for Triggered Release of Chemotherapeutic Cargo in Metastatic Prostate Cancer Lesion in Bone*	*Omer Aydin*	*University of Michigan*
29	*Raltegravir Prodrugs for Improved Nanoparticle Delivery*	*Wilma E. Afunugo*	*Seattle University*
30	*pH-sensitive stealth coating of polymeric nanoparticles by polydopamine polymerization*	*Sara Ahmed*	*Industrial and Physical Pharmacy Department- College of Pharmacy- Purdue University*
31	*Folate receptor-targeted transplacental delivery of digoxin for the treatment of fetal arrhythmia*	*Norah Albekairi*	*University of Texas Medical Branch*
32	*Transplacental transfer of paclitaxel-loaded nanoparticles in the dually perfused human placental cotyledon*	*Shariq Ali*	*University of Texas Medical Branch*
33	*Nanocarrier based Amphotericin B delivery system for treatment of Visceral Leishmaniasis: an in-vivo assessment*	*Madhusudan Bhat*	*All India Institute of Medical Sciences*
34	*Polymeric Nanocarriers for Drug Delivery: Improving physicochemical parameters by a nanoprecipitation approach*	*Johanna Catalan-Figueroa*	*University of Chile*
35	*iTEP Nanoparticle-Delivered Salinomycin Displays an Enhanced Antitumor and Anti-Metastasis Efficiency in Orthotopic Breast Tumors*	*Mingnan Chen*	*University of Utah*
36	*Chemotherapeutic Caterpillar Conjugates*	*Anthony Convertine*	*University of Washington*
37	*Oxidation-Responsive Polymers: Tailored Sensitivity to Reactive Oxygen Species for Drug Delivery Purposes*	*Richard d'Arcy*	*University of Manchester*
38	*Polymeric Prodrug Therapy for Respiratory Infections Involving Burkholderia Pseudomallei*	*Debobrato Das*	*University of Washington*
39	*Performance-programmable clustered nanoassembly for biological stimuli-responsive multistage cancer chemotherapy*	*Jinzhi Du*	*Emory Univeristy*
40	*Design of Polymer Nanoreactors with Triggered Activity for Medicine and Biosensing Applications*	*Tomaz Einfalt*	*University of Basel*
41	*Hemocompatible Biohybrid Structures Made by Non-Covalent Conjugation of Glycopolymers and Proteins. Synthesis, Characterization and Purification Strategies.*	*Johannes Fingernagel*	*Leibniz Institute of Polymer Research Dresden*
42	*Cathepsin B-cleavable polymer-peptide conjugates for the intracellular delivery of a proapoptotic peptide in cancer*	*Hanna Kern*	*University of Washington*
43	*PeptoMicelles: A Novel Platform For Drug Delivery*	*Kristina Klinker*	*Johannes Gutenberg University, Mainz*
44	*Development of Targeted, Enzyme-Activated Nano-conjugates for Hepatic Cancer Therapy*	*Sibu Kuruvilla*	*University of Michigan*
45	*RAFT micelles for selective drug delivery to macrophages*	*Kate Montgomery*	*Imperial College London*
46	*Cheminformatics-driven selection of drugs for solubilization by poly(2-oxazoline) polymeric micelles to improve their delivery*	*Eugene Muratov*	*University of North Carolina at Chapel Hill, Chapel Hill, NC*
47	*Host cell surface-mimicking polymersomes (nanomimics) to trap and expose malaria parasites*	*Adrian Najer*	*University of Basel and Swiss Tropical and Public Health Institute*

48	*Polyvalerolactone Hydrogel for Sustained Delivery of Tacrolimus*	*Duc Nguyen*	*Oregon State University College of Pharmacy*
49	*Functional Polymers using RAFT for Drug Delivery Applications*	*Gangadhar Panambur*	*Sigma Aldrich Incorporated*
50	*Acid-sensitive oxidative stress generating polymeric micelles as anticancer therapeutic agents*	*Hoyeon Park*	*Chonbuk National University, Korea*
51	*Passive Tumor Targeting of PRINT Nanoparticles: A Function of Particle Size, Shape, and Tumor Model*	*Jillian Perry*	*University of North Carolina at Chapel Hill*
52	*Carbamazepine stimulates mTOR-independent autophagic killing of drug-resistant Mycobacterium tuberculosis*	*Mark Schiebler*	*Cambridge Nanoscience Centre*
53	*Primaquine-polymer prodrug model as potential antimalarial for liver targeting*	*Selvi Srinivasan*	*University of Washington*
54	*Bioactive polymeric nanocarriers for intracellular antibiotic delivery for the treatment and prevention of pulmonary infection*	*Fang-Yi Su*	*University of Washington*
55	*Poly(2-oxazoline) Micellar Formulation of Single Drug and Combinatin for Cancer Therapy*	*Xiaomeng Wan*	*University of North Carolina at Chapel Hill*
56	*Development of Sunflower Polymers for Tumor-Targeted Drug Delivery*	*Christine Wang*	*University of Washington*
57	*Nanomedicine for the prevention of corneal neovascularization*	*Qingguo Xu*	*Johns Hopkins School of Medicine*
58	*Dequalinium-coated Poly(lactide-co-glycolide) Nanoparticles to Overcome Paclitaxel Resistance in Ovarian Cancer cells*	*Venkata Yellepeddi*	*Roseman University of Health Sciences*
59	*Inflammation-responsive polymeric prodrug nanoparticles for the treatment of inflammatory liver diseases*	*Donghyuck Yoo*	*Chonbuk National University, Korea*
60	*Dendrimer Based Systemic Therapies for the Treatment of Glioblastoma*	*Fan Zhang*	*Johns Hopkins University*
61	*Defining Essential Considerations to Achieve Optimal, Local Nanocarrier Delivery to the Brain*	*Clark Zhang*	*Johns Hopkins University School of Medicine*

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