

F: Imaging

SESSION F3:

Chairs: Martin Brechbiel and Ling Peng
Wednesday Morning, June 29, 2011
Lecture Room B

* Invited paper

SESSION F1:

Chairs: Delphine Felder-Flesch
Monday Afternoon, June 27, 2011
Lecture Room A

2:00 PM *F1.1

Dendrimer Based MRI Contrast Agents: Synthesis and Applications. Martin Brechbiel, NCI, Bethesda, Maryland.

2:30 PM *F1.2

Dendritically Protected Optical Imaging Probes. Sergei Vinogradov, University of Pennsylvania, Philadelphia, Pennsylvania.

3:00 PM BREAK

SESSION F2:

Chair: Sergei Vinogradov
Tuesday Afternoon, June 28, 2011
Lecture Room A

2:00 PM F2.1

Dendritic Nanovectors For Multimodal Imaging. Giuseppe Lamanna¹, Brice Basly¹, David Kryza², Pauline Bonazza², Claire Billotey², Sylvie Begin-Colin¹ and Delphine Felder-Flesch¹; ¹IPCMS, UMR CNRS-Université de Strasbourg 7504, Strasbourg, France; ²LPCML-UCBL, UMR 5620, Lyon, France.

2:20 PM F2.2

Synthesis of Dye-functionalized Hydrophilic Dendrons Dedicated to Surface Engineering of Iron Oxide Nanoparticles for Magneto-optical Detection of the Sentinel Node in Early Breast Cancer. Marie Kueny-Stotz¹, Lai Truong Phuoc², Francois-Xavier Ble³, Franklin Tellier³, Patrick Poulet³, Genevieve Pourroy², Sylvie Begin-Colin² and Delphine Felder-Flesch¹; ¹DMO, IPCMS, Strasbourg, France; ²DCMI, IPCMS, Strasbourg, France; ³LINC, Institut de Physique Biologique, Strasbourg, France.

2:40 PM F2.3

Fluorescent, Superparamagnetic Nanospheres for Drug Storage, Targeting, and Imaging. Donglu Shi^{1,2}, Hoon Sung Cho², Chris Huth², Feng Wang², Zhongyun Dong³, Giovanni M. Paultetti⁴, Hong Xu⁵, Hongchen Gu⁵, Jiaming Zhang⁶ and Rodney C. Ewing⁶; ¹Institute for Advanced Materials and Nano Biomedicine, Tongji University, Shanghai, China; ²Chemical and Materials Engineering, University of Cincinnati, Cincinnati, Ohio; ³Internal Medicine, University of Cincinnati, Cincinnati, Ohio; ⁴James L. Winkle College of Pharmacy, University of Cincinnati, Cincinnati, Ohio; ⁵Med - X Institute, Shanghai Jiao Tong University, Shanghai, China; ⁶Geological Sciences, University of Michigan, Ann Arbor, Michigan.

3:00 PM BREAK

SESSION PF1: Imaging: Poster Session

Tuesday Evening, June 28, 2011

6:00 PM

Ballroom (Marriott)

PF1.1

Synthesis of a Bifunctional PAMAM Dendrimer Nanoparticle Bearing Both a Chemotherapy Drug for Brain Tumor Treatment Studies and an MRI Agent for Tracking Purposes. Haitao Wu¹, Hemant Sarin³, Kyle R. Brimacombe², Biying Xu¹, Colin M. Wilson¹, Matthew D. Hall² and Gary L. Griffiths¹;

¹Imaging Probe Development Center, NHLBI, National Institutes of Health, Rockville, Maryland; ²Laboratory of Cell Biology, National Institutes of Health, NCI, Rockville, Maryland; ³NIBIB, National Institutes of Health, Rockville, Maryland.

11:30 AM F3.1

Dendrimer-based Fluorescent Indicators: in vitro and in vivo Applications. Lorenzo Albertazzi^{1,2}, Marco Brondi^{1,2}, Barbara Storti^{1,2}, Giovanni M. Pavan³, Laura Marchetti¹, Sebastian Sulis Sato^{1,2}, Giovanni Signorci², Gian Michele Ratto¹ and Fabio Beltram^{1,2}; ¹Scuola Normale Superiore - NEST, Pisa, Italy; ²Center for Nanotechnology Innovation @NEST, Pisa, Italy; ³University of Applied Sciences of Southern Switzerland (SUPSI), Manno, Switzerland.

11:50 AM F3.2

Dendritically Modified Lanthanide-based Up-converting Nanoparticles. Tatiana V. Esipova¹, XingChen Ye², Joshua E. Collins³, Christopher B. Murray² and Sergei A. Vinogradov¹; ¹Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, Pennsylvania; ²Chemistry, University of Pennsylvania, Philadelphia, Pennsylvania; ³Intelligent Material Solutions Inc., Princeton, New Jersey.

12:10 PM F3.3

Combined Convergent-Divergent Synthesis of PEG-Core Dendrimers for CT Imaging. Reena Bajpai, Runtang Wang, Robert Brasch, Benjamin Yeh and YanJun Fu; Radiology & Biomedical Imaging Dept, Box 0628, University of California San Francisco (UCSF), San Francisco, California.

12:30 PM *F3.4

The Imaging Probe Development Center: A Central Core Facility for the Production and Dissemination of Molecular Imaging Probes Including Diverse Dendrimer-based Compositions. O. Vasalatiy, H. Wu, A. Sulima, A. Opina, N. Shenoy, B. Xu, P. Young and Gary L. Griffiths; Imaging Probe Development Center at the National Heart and Blood Institute, National Institutes of Health, Rockville, Maryland.