

Presented by:



ESHELMAN SCHOOL
OF PHARMACY

Center for
Nanotechnology
in Drug Delivery

Cancer Imaging and Non-Invasive Monitoring of Treatment Responses Workshop



September 4-7, 2018

**Tuesday September 4, 2018
Marsico 4004**

2-3 pm	Guorong Wu, Ph.D.	Accurate Image Guided Radiation Therapy for Lung Cancer Treatment
3-4 pm	Klaus Hahn, Ph.D.	Biosensors and Non-Channel Optogenetics
4-5 pm	Brian Hyslop, M.D., Ph.D	Cancer Imaging using Body MRI/CT for Diagnosis, Staging, and Evaluation of Treatment Response

**Wednesday September 5, 2018
Marsico 4004**

2-3 pm	Yueh Lee, M.D., Ph.D.	Clinical Translation of Nanotechnology Relevant Novel Imaging Modalities (PET/MR and x-nuclei MRI)
3-4 pm	Hong Yuan, Ph.D.	Molecular Imaging of Cancer Treatment Response
4-5 pm	David Lalush, Ph.D.	Quantitative Imaging Methods in PET, MR, and CT

**Thursday September 6, 2018
Marsico sub-basement 210**

2-5 pm	Hong Yuan, Ph.D.	Tour of Biomedical Research Imaging Center and Small Animal Imaging Facility, hands-on demonstrations
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The imaging lab demonstration will provide an introduction to major imaging modalities, including optical, ultrasound, magnetic resonance imaging (MRI), computed tomography (CT), positron emission tomography (PET), and single photon emission computed tomography (SPECT) imaging. Trainees will have the opportunity to tour the research imaging facility at UNC and have hands-on imaging experience with optical, ultrasound, and PET/CT imaging with live animals. Basic image visualization and process will be demonstrated with explanations on image features and physiological meaning. The tour and demonstration is limited to 15 participants. Another tour will be offered Tuesday September 11 from 2-3pm.

**Friday September 7, 2018
Marsico 3004**

2-3 pm	Zibo Li, Ph.D.	Development of PET Imaging Agents and Their Clinical Application
3-4 pm	Jorge Oldan, M.D.	Clinical Use of PET and Emerging Tracers
4-5 pm	Antonio Amelio, Ph.D.	Optical Imaging and Bioluminescent-Fluorescent BRET reporters