



The NIH Center for EPR Imaging In Vivo Physiology

Department of Radiation & Cellular Oncology • Division of The Biological Sciences and The Pritzker School of Medicine • The University of Chicago



2017 In Vivo Oxygen Imaging Workshop The University of Chicago • June 28-29, 2017

Wednesday, June 28th

Biological Sciences Learning Center, 924 E. 57th St. Room 305

8:30	<i>Continental breakfast</i>
9:00 - 9:20 am	Welcome notes. Howard Halpern.
9:20 - 10:20 am	Lecture 1. Howard Halpern. Quantitative functional imaging of tumors: can this direct radiation dose distribution in tumors and enhance therapeutic ratio?
10:20 - 10:35 am	<i>Coffee Break</i>
10:35 - 11:35 am	Lecture 2. Boris Epel. The principles of EPR Oxymetry and Image Acquisition. EPR Imaging Methodology
11:35 -12:05 am	Lecture 3. Boris Epel Tumor oxygen-guided radiation therapy
12:05 -12:35 am	<i>Lunch</i>
12:35 -1:10 pm	Lecture 4. Boris Epel. Image registration
1:10 - 1:20 pm	Boris Epel. Lab tour remarks.

Albert Merritt Billings Hospital, 5841 S. Maryland Ave. Armour sub-basement, ESB05

1:40 - 3:40 pm	Laboratory tour and live demonstration
3:40 – 5:00 pm	Q & A

Thursday, June 29th

Biological Sciences Learning Center, 924 E. 57th St. Room 305

8:30	<i>Continental breakfast</i>
9:00 - 9:30 am	Lecture 5. Boris Epel. Close look at EPR imaging instrumentation
9:30 - 10:00 am	Lecture 6. Boris Epel. Beyond oxygen. EPR Imaging of pH and GSH.
10:00 – 10:30 am	Lecture 7. Zhiwei Qiao. Optimization-based image reconstruction.
10:30 - 10:45 am	<i>Coffee Break</i>
10:45 -11:15 am	Lecture 8. Mrignayani Kotecha. Tissue Engineering applications
11:15 -11:45 pm	Lecture 9. Mrignayani Kotecha. From lab to clinic.
11:45-12:30 pm	Howard Halpern and Boris Epel. Center for EPR Imaging In vivo Physiology: Resources, Interaction, Collaborations. Informal discussion.
12:30 - 2:00 pm	<i>Lunch</i>