Workshop on infectious disease imaging
Natcher Building, NIH campus Thursday, September 25th, 2014

The meeting is co-sponsored by:
The Center for Infectious Disease Imaging, Department of Radiology and Imaging Sciences, NIH Clinical Center
Division of Clinical Research, National Institute of Allergy and Infectious Diseases, NIH

8:25 Welcome

Recent advances in ID imaging
8:30 Sanjay Jain (Johns Hopkins): Introduction and overview of infectious disease imaging
9:00 Gary Luker (U. of Michigan): Bioluminescence imaging: dead end or bridge to translation?
9:30 Clif Barry (NIAID): Update on PET/CT imaging of tuberculosis
10:00 Coffee break

Current and future research
10:30 Dan Mollura and Ulas Bagci (CIDI): PET and CT image analysis of lung infections: segmentation, pathology detection, and serial quantification methods
10:45 Dan Mollura and Ziyue Xu (CIDI): CT image processing for analyzing infectious airways and cavitary lung disease
11:00 Ed Weinstein (Johns Hopkins): Imaging enterobacterial infection in vivo with 18F-fluorodeoxysorbitol PET
11:15 Catherine Foss (Johns Hopkins): Imaging complement, macrophages and collagen remodeling in experimental staphylococcal osteomyelitis
11:30 Siddhartha Mahanty (NIAID): Imaging-assisted studies of parasite growth and inflammation in a novel rat model of neurocysticercosis
11:45 Jon Warawa (U of Louisville): Improved modeling of respiratory melioidosis through bioluminescent imaging
12:00 Lunch

Imaging viral infections
1:00 Dorian McGavern (NINDS): Imaging immunity to infection in the living brain
1:30 Colleen Jonsson (U. of Louisville): Global and local responses of the ferret lung to influenza virus infection
2:00 Stephanie Carlson (Mayo Clinic): Quantitative imaging of in vivo viral infection and spread using the sodium iodide symporter (NIS)
2:30 Coffee break

Current and future research
2:45 Amy Hartman (U Pittsburgh Medical Center): From mice to monkeys: imaging at BSL-3 in the Pitt RBL
3:15  Tom Bocan: Plans for BSL-3 imaging at the new USAMRIID
3:30  Jeff Solomon (IRF): An infrastructure for image analysis at the IRF
3:45  Dan Chertow (IRF): CT correlates of acute lung injury due to influenza A and methicillin-resistant Staphylococcus aureus infection in rhesus macaques
4:00  Marina Zaitseva (CBER/FDA): Quantitative bioluminescence imaging for assessing the effects of antiviral therapies on vaccinia virus infections in mice
4:15  Michele Di Mascio (NIAID): Imaging immune deficiency and reconstitution in nonhuman primates
4:30  Discussion and close

*Draft program 3 September 2014*

For more information and to preregister for the workshop, contact Mike Bray at mbray@niaid.nih.gov.
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