

# Workshop on Imaging Inflammation and its Resolution in Health and Disease

June 10-11, 2019 ▪  
5601 Fishers Lane, Rm 1D13 ▪  
Rockville, MD

## Agenda

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### Day 1, Monday, June 10

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| 7:45-8:30am     | Registration   |
| 8:30-8:40am     | Welcoming Remark <i>Janet Eary, MD (NCI)</i>   |
| 8:40-9:10am     | Opening Keynotes: <b>Novel pro-resolving mediators in resolution of inflammation and tissue regeneration</b>   Charles Serhan, PhD, DSc, Brigham and Women's Hospital  |
| 9:10-10:25am    | <b><i>Clinical Challenges and Needs (I)</i></b><br><i>Moderator: Johanna Dwyer (NIH ODS)</i>   |
| 9:10-9:35       | <b>Clinical challenges in the management of patients receiving immune checkpoint blockade for cancer</b>   Michael Postow, MD, Memorial Sloan Kettering Cancer Center  |
| 9:35-10:00      | <b>The Dietary Inflammatory Index (DII®) as a means and metaphor for describing the effect of diet on inflammation-related health outcomes</b>   James R Hebert, MSPH, ScD, The University of South Carolina |
| 10:00-10:25     | <b>MRI-based biomarkers of fat, inflammation and fibrosis in liver disease</b>   Rohit Loomba, MD, University of California San Diego  |
| 10:25-10:40am   | Coffee break   |
| 10:40am-11:55am | <b><i>Clinical Challenges and Needs (II)</i></b><br><i>Moderator: Michelle Hamlet (NINR)</i>   |
| 10:40-11:05     | <b>Clinical evaluations to prevent post-thrombotic syndrome</b>   Fedor Lurie, MD PhD, JOBST Vascular Institute  |
| 11:05-11:30     | <b>Early detection of the progression of inflammatory and neuropathic pain</b>   Ru-Rong Ji, PhD, Duke University  |
| 11:30-11:55     | <b>Pseudoprogession and immune-oncology: regulatory and drug development considerations</b>   Victoria Chiou, MD, FDA  |

11:55-12:55pm	<p><b>Panel Discussion</b>  <b>Presentation: Biomarkers of inflammation and injury in NAFLD – who needs them the most?</b>   Yaron Rotman, MD MSc, FAASLD, NIDDK  <i>Chairs: Andrei Kindzelski (NHLBI) &amp; Elad Sharon (NCI)</i>  <i>Panel members: Michael Postow, James Hebert, Fedor Lurie, Ru-Rong Ji, Victoria Chiou, Yaron Rotman (NIDDK)</i></p>
12:55-1:55pm	Lunch
1:55-3:10pm	<p><b>State-of-the-art Imaging Technologies (I)</b>  <i>Moderator: Chiayeng Wang (NIDCR)</i></p>
1:55-2:20	<b>Optical imaging of immunity</b>   Stefan Uderhardt, MD, NIAID/NIH
2:20-2:45	<b>LED-based photoacoustic imaging for detecting joint inflammation</b>   Xueding Wang, PhD, University of Michigan
2:45-3:10	<b>Molecular imaging sensors for biomarkers of inflammation</b>   Alexei Bogdanov, PhD, The University of Massachusetts at Worcester
3:10-3:25pm	Coffee break
3:25-4:40pm	<p><b>State-of-the-art Imaging Technologies (II)</b>  <i>Moderator: Shang-Yi Tsai (NIDA)</i></p>
3:25-3:50	<b>Label-free metabolic tissue imaging and its potential to assess inflammatory responses</b>   Irene Georgakoudi, PhD, Tufts University
3:50-4:15	<b>Vitamin C-based hyperpolarized MRI to interrogate oxidative stress <i>in vivo</i></b>   Kayvan R Keshari, PhD, Memorial Sloan Kettering Cancer Center
4:15-4:40	<b>Comparative molecular imaging of cancer and inflammation in companion animals</b>   Amy Leblanc, DVM, NCI-CCR/NIH
4:40-5:40pm	<p><b>Panel Discussion</b>  <i>Chairs: Mercy Prabhudas &amp; Merriline Vedamony (NIAID)</i>  <i>Panel members: Stefan Uderhardt, Xueding Wang, Alexei Bogdanov, Irene Georgakoudi, Kayvan Keshari, Amy Leblanc</i></p>
5:40-5:45pm	Wrap-up

## Day 2, Tuesday, June 11

7:30-8:00am	Registration
8:00-8:15 am	Goals and Objectives
8:15-9:55am	<p><b>Cross Validations</b>  <i>Moderator: Danielle Carrick (NCI)</i></p>

8:15-8:40	<b>The critical role of imaging in the FNHI Biomarkers Consortium's Inflammation and Immunity Portfolio</b>   Stephanie Cush, PhD, Foundation for National Institutes of Health
8:40-9:05	<b>Imaging immune phenomena</b>   Martin G Pomper, MD PhD, Johns Hopkins Medical School
9:05-9:30	<b>Integration of imaging and biomarkers for the early detection of hepatocellular carcinoma</b>   Laura Beretta, PhD, University of Texas MD Anderson Cancer Center
9:30-9:55	<b>Connecting the dots in atherosclerosis immunology by PET/MR imaging</b>   Zahi Fayad, PhD, Icahn School of Medicine at Mount Sinai
9:55-10:10am	Coffee Break
<b>10:10-11:25am</b>	<b><i>Human Applications</i></b> <i>Moderator: George McKie (NEI)</i>
10:10-10:35	<b>Integrated imaging modalities in understanding the progression of ALS and other neuro-inflammatory diseases</b>   Eva M Ratai, PhD, Massachusetts General Hospital
10:35-11:00	<b>Imaging of coronary inflammation to predict residual cardiovascular risk</b>   Milind Y Desai, MD, Cleveland Clinic
11:00-11:25	<b>Imaging pain: pinpointing the site of pain generation and inflammation using molecular imaging and PET/MRI</b>   Sandip Biswal, MD, Stanford University
11:25-12:25pm	<b><i>Panel Discussion</i></b> <b>Presentation: HIV-related coronary artery disease</b>   Ahmed Gharib, MD, NIDDK <i>Chairs: Martin Pomper (Johns Hopkins Medical School) &amp; Pushpa Tandon (NCI)</i> <i>Panel members: Stephanie Cush, Laura Beretta, Zahi Fayad, Eva Ratai, Milind Desai, Sandip Biswal, Ahmed Gharib (NIDDK)</i>
12:25 -12:40pm	Wrap-up/Adjourn