



Sixth Annual INSPECTOR MR Spectroscopy Workshop

Columbia University in the City of New York

Friday, November 18, 2022, 8:30am – 5:30pm EST, Jerome L. Greene Science Center (JLGSC) 9th floor

- 8:30 AM **Welcome & Agenda**
Christoph Juchem, Ph.D., Columbia University
- 8:45 AM **Fulfilling a pressing need for standardization in MRS research: MRS-BIDS and NIfTI-MRS**
Mark Mikkelsen, Ph.D., Weill Cornell Medicine
- 9:15 AM **Getting to brain mechanisms of injury and disease in vivo: unmet needs**
Michael L. Lipton, M.D., Ph.D., Albert Einstein College of Medicine
- 9:45 AM **Improvement of Brain MRS at 7T Using a Wireless Radiofrequency Array**
Akbar Alipour, Ph.D., Mount Sinai School of Medicine
- 10:15 AM **Coffee Break**
- 10:45 AM **Uncertainty propagation in absolute metabolite quantification for in vivo MRS of the human brain**
Ronald Instrella, M.S., Columbia University
- 11:15 AM **Downfield MRSI in the human brain**
Peter Barker, Ph.D., Johns Hopkins University School of Medicine
- 11:45 AM **Downfield spectroscopy at ultrahigh field at the University of Pennsylvania**
Neil Wilson, Ph.D., University of Pennsylvania
- 12:15 PM **Open Discussion: Moving MRS methodological consensus to acceptance within the clinical research community – A first assessment of dissemination status quo**
Jodi Weinstein, M.D., Stony Brook University School of Medicine
Christoph Juchem, Ph.D., Columbia University
- 12:45 PM **Lunch Break**
- 1:15 PM **MRS spectral registration using deep learning**
David Ma, M.S., Columbia University
- 1:45 PM **Lower global N-acetylaspartate associated with illness duration, suggests accelerated aging in persons with psychosis – MRI and whole-brain proton MR spectroscopy at 3 T**
Oded Gonen, Ph.D., New York University Langone Medical Center
- 2:15 PM **Imaging uptake and metabolism of deuterated choline in rodent models of glioblastoma**
Henk De Feyter, Ph.D., Yale University
- 2:45 PM **Joint spectral quantification of MR spectroscopic imaging using linear tangent space alignment-based manifold learning**
Chao Ma, Ph.D., Harvard Medical School



3:15 PM Coffee Break

3:45 PM **Clinical translation of hyperpolarized ¹³C MRS**
Kofi Deh, Ph.D., Memorial Sloan Kettering Cancer Center

4:15 PM **Siemens MR spectroscopy**
Sinyeob Ahn, Ph.D., Siemens Healthineers

4:45 PM **Unravelling bone marrow adipose tissue composition in proximal femur through 3 T MRS**
Dimitri Martel, Ph.D., New York University Langone Medical Center

5:15 PM **Final Comments & Adjournment**
Christoph Juchem, Ph.D., Columbia University