

# 18<sup>th</sup> SYMPOSIUM OF THE INTERNATIONAL HYDROCEPHALUS IMAGING WORKING GROUP

www.IHIWG.org

Held in Conjunction with the Hydrocephalus Society Meeting

Monday, September 16, 2019, Vancouver, Canada

Organized by: Hal Rekate, Vartan Kurtcuoglu, Ari Blitz, Mark Luciano, Pat McAllister and Bryn Martin



## MONDAY September 16, PM

- 13:00 Session 1 – CSF outflow and hydrocephalus pathophysiology** **Moderators:** Pat McAllister, PhD
- 13:00 Welcome and Introduction to the program Hal Rekate, MD
- 13:10 *MR imaging of lymphatic flow in man* Richard Watts, PhD  
Q: Does dysfunction of the lymphatic system contribute to neurodegenerative disease in man, and does this suggest novel therapeutic targets? Yale University
- 13:35 *The role of cribriform plate outflow pathways in CSF production and flow dynamics* Patrick Drew, PhD  
Q: What impact do environmental insults to outflow pathways have on CSF flow dynamics? Pennsylvania State University
- 14:00 *The future of DTI in pediatric hydrocephalus management* Francesco Mangano, DO  
Q: How does DTI fit into clinical decision making in the management of patients with hydrocephalus? Cincinnati Children's Hospital Medical Center
- 14:25 *Imaging our way through shunt obstruction: Analysis of failure using confocal microscopy* Carolyn Harris, PhD  
Q: What imaging modalities do you think could be used to assay shunt obstruction? Wayne State University
- 14:50 Speaker panel discussion
- 15:00 Break
- 15:20 Session 2 - Advanced imaging and diagnostics for hydrocephalus** **Moderators:** Ari Blitz, MD
- 15:20 *The role of brain volume in management of hydrocephalus* Steven Schiff, MD, PhD, FAANS  
Q: What might be the guidelines for optimal management based on brain growth? Pennsylvania State University
- 15:45 *Automatic MR image segmentation of the 3D CSF structure in patients with NPH* Lotta Ellingsen, PhD  
Q: What are the most important quantitative MR imaging measures to diagnose/characterize/predict prognosis in NPH and other CSF disorders? University of Iceland
- 16:10 *Controversy related to communicating hydrocephalus: Understanding iNPH* Hal Rekate, MD  
Q: Is communicating hydrocephalus a problem of terminal CSF absorption?
- 16:35 Speaker panel discussion
- 16:50 Close

### Notes:

15-minute talks, 10-minutes for discussion on each talk

- Speakers are encouraged to end their talk with a slide stating their discussion topic question