



HS3.5: Fifth Annual Hippocampal Subfield Segmentation Summit

San Diego, CA · Friday, November 11, 2016

TALK SESSION 1

- 8:00am **Check in and breakfast**
- 9:00am **Introduction and boundary working group overview**
Laura Wisse, University of Pennsylvania
- 9:25am **Update: Hippocampal body ranging protocol**
Ana Daugherty, University of Illinois
- 9:40am **Update: Outer boundary protocol and questionnaire**
Renaud La Joie, UC Berkeley
- 10:05am **Coffee break**

TALK SESSION 2

- 10:30am **Update: Inner boundary protocol**
Ana Daugherty, University of Illinois
- 10:55am **Update: Hippocampal head protocol**
Rosanna Olsen, Rotman Research Institute, Baycrest
- 11:10am **General discussion**
- 12:00pm **Catered lunch**

TALK SESSION 3

- 1:00pm **Improving the concurrent validity of automated hippocampal subfield segmentation in older adults by direct comparison to manual tracing**
Andrew Bender, Max Planck Institute
- 1:15pm **Automatic Segmentation of Hippocampal Subfields (ASHS) revisited: Can we do better?**
Nick Tustison, UC Irvine
- 1:30pm **Unraveling the Subfields of the Hippocampal Head with 7T MRI**
Jordan DeKraker, University of Western Ontario
- 1:45pm **Coffee break**

TALK SESSION 4

- 2:00pm **Medial temporal lobe subregion volume reductions are associated with preclinical cognitive decline**
Rosanna Olsen, Rotman Research Institute, Baycrest
- 2:15pm **Advanced age, vascular risk and inflammation exacerbate differential shrinkage of hippocampal subfields in healthy adults: a two-year longitudinal study**
Ana Daugherty, University of Illinois
- 2:30pm **Effects of ApoE and BDNF polymorphisms on hippocampal subfield volumes in a healthy cognitive aging**
Nikolai Malykhin, University of Alberta
- 2:45pm **Acute mild exercise enhances hippocampal pattern separation and hippocampal-neocortical functional connectivity**
Zach Reagh, UC Irvine

COFFEE AND POSTER SESSION

- 3:00pm **Steps towards a harmonized protocol for medial temporal lobe segmentation: initial results of the 3T protocol for the hippocampal body**
Laura Wisse, University of Pennsylvania
- How are temporal and cognitive contexts represented by hippocampal subfields?**
Halle Dimsdale-Zucker, UC Davis
- Hippocampal subfield volumes contribute to episodic memory development**
Attila Keresztes, Max Planck Institute
- Unfolded hippocampal coordinate system for quantitative mapping and subfield segmentation**
Jordan DeKraker, University of Western Ontario

CLOSING REMARKS AND SOCIAL EVENT

- 4:00pm **Summary and future plans**
Valerie Carr, San Jose State University
- 4:30pm **Meeting adjourns**
- 5:00pm **Happy hour at M Winehouse**
1918 India St
San Diego, CA 92101