



Computational Techniques and Resources for Effective Translational Research in Alzheimer's Disease

May 18-22, 2026

Schedule Subject to Change

Sunday, May 17th

- 3:00 – 5:00 PM Arrivals (Highseas Conference Center)
- 5:00 – 6:00 PM Social Hour & Welcome (Highseas 1st floor)
- 6:00 – 7:00 PM Dinner
- 7:00 – 9:00 PM Participant Introductions (Highseas 3rd floor)

Monday, May 18th

- 7:00 – 8:00 AM Breakfast (Highseas 1st floor)
- 8:00 – 8:30 AM **Welcome and Course Overview** (Highseas 3rd floor)
Asli Uyar, Ph.D., The Jackson Laboratory
- 8:30 – 9:20 AM **NIA Translational Programs**
Laura Heath, Ph.D., Sage Bionetworks
- 9:20 – 9:40 AM Break
- 9:40 AM – 12:00 PM **Workshop: Introduction to Cavatica and Synapse**
Susan McClatchy, M.S., The Jackson Laboratory
- 12:00 – 1:00 PM Lunch (Highseas 1st floor)
- 1:00 – 2:30 PM **Translational Data Science in Alzheimer's Disease** (Highseas 3rd floor)
Greg Carter, Ph.D., The Jackson Laboratory
- 2:30 – 5:00 PM **Workshop: Navigating the AD Knowledge Portal**
Laura Heath, Ph.D., Sage Bionetworks
- 6:00 – 7:00 PM Dinner (Highseas 1st floor)

7:00 – 8:30 PM **Open Forum: What Breaks, What Works and What We Wish Existed** (Highseas 1st floor)
Asli Uyar, Ph.D., The Jackson Laboratory

Tuesday, May 19th

7:00 – 8:00 AM Breakfast (Highseas 1st floor)

8:00 – 9:00 AM **Mouse Models of AD & MODEL-AD Overview** (Highseas 3rd floor)
Mike Sasner, Ph.D., The Jackson Laboratory

9:00 – 10:00 AM **Transcriptomic Landscape in Alzheimer's Disease**
Vilas Menon, Ph.D., Columbia University

10:00 AM – 12:15 PM **Workshop: Cross-Species Functional Alignment**
Greg Cary, Ph.D., The Jackson Laboratory

12:15 – 1:00 PM Lunch (Highseas 1st floor)

1:00 – 4:00 PM **Workshop: Computational Workflows for Single Cell and Spatial Transcriptomics** (Highseas 3rd floor)
Robert Butler III, Ph.D., Stanford University

4:00 – 6:30 PM Group Outdoor Activity

6:30 – 7:30 PM Dinner (Highseas 1st floor)

7:30 – 8:30 PM **Interactive Game: Match the Model to the Research Question** (Highseas 1st floor)
Susan McClatchy, M.S., The Jackson Laboratory

Wednesday, May 20th

7:00 – 8:00 AM Breakfast (Highseas 1st floor)

8:00 – 8:50 AM **Proteomic Signatures of AD** (Highseas 3rd floor)
Saima Rathore, Ph.D., Emory University

8:50 – 9:40 AM **Multi-level Molecular Stratification and Translation in Alzheimer's Disease Dementia**
Yasser Iturria-Medina, Ph.D., McGill University

9:40 - 10:00 AM Break

10:00 AM – 12:30 PM **Workshop: Integrated Multi-Omics and Cross-Tissue Proteomics** (Highseas 3rd floor)
Ravi Pandey, Ph.D., The Jackson Laboratory

12:30 – 1:30 PM Lunch (Highseas 1st floor)

1:30 – 5:00 PM **Workshop: Alignment to AD Subtypes (Group Project)**

6:00 – 7:00 PM Lobster Dinner (Highseas 1st floor)

7:00 – 8:00 PM **Board Game Night (and/or Karaoke)**

Thursday, May 21st

7:00 – 8:00 AM Breakfast (Highseas 1st floor)

8:00 – 9:00 AM **Predictive Modeling in AD and Aging** (Highseas 3rd Floor)
Asli Uyar, Ph.D., The Jackson Laboratory

9:00 AM – 12:00 PM **Introduction to Deep Learning with Application to Multi-omics Data Fusion for AD**
Rohit Tripathy, Ph.D., The Jackson Laboratory

12:00 – 1:00 PM Lunch (Highseas 1st floor)

1:00 – 2:00 PM **Computational Modeling for Preclinical Translation** (Highseas 3rd Floor)
Douglas Brubaker, Ph.D., Case Western Reserve University

2:00 – 5:00 PM **Workshop Group Study: Same Data – Alternative Methods**
All instructors

6:00 – 7:00 PM Dinner (Highseas 1st floor)

7:00 – 8:00 PM **Evening Lecture: Understanding LLMs and their Applications to Scientific Workflows** (Highseas 1st floor)
Rohit Tripathy, Ph.D., The Jackson Laboratory

Friday, May 22nd

7:30 – 8:30 AM Breakfast (Highseas 1st floor)

8:30 AM – 12:00 PM **Individual Capstone Project: Translational Integration Across Human and Model Organism Data** (Highseas 3rd Floor)
All faculty

12:00 – 1:00 PM Lunch (Highseas 1st floor)

1:00 – 1:45 PM **Brain Aging and AD** (Highseas 3rd Floor)
Asli Uyar, Ph.D., The Jackson Laboratory

1:45 – 2:30 PM **Proteomic Signatures of Neurodegeneration from AD Blood Biomarkers**
Robert Butler III, Ph.D., Stanford University

2:30 – 3:15 PM **The AD Drug Development Pipeline**
Greg Cary, Ph.D., The Jackson Laboratory

3:15 – 3:30 PM Break

3:30 – 5:30 PM **Project Presentations** (Highseas 1st floor)

5:30 PM Dinner on your own

Saturday, May 23rd

7:00 AM Grab and Go Breakfast (Highseas Snack Room 1st floor)

8:00-8:30 AM **Course Summary** (Highseas 3rd Floor)
Asli Uyar, Ph.D., The Jackson Laboratory

9:00 AM Departures (Room check-out is 9:00 am, but participants may stay on the first floor of Highseas until noon)