4th Annual NIA-AA Symposium:
Enabling Precision Medicine for AD Through Open Science

Oct. 27-28, 2021
Virtual Conference
Eastern Time (North America)

Summary

Supported by the Alzheimer's Association and the National Institute on Aging (NIA), this virtual symposium will feature an array of NIA-supported translational research programs that employ precision medicine principles and open-science practices to:

1. Understand the complex and heterogeneous etiology of Alzheimer's.
2. Identify new disease-relevant targets and biomarkers.
3. Develop the next generation animal models for late onset AD.
4. Advance novel targets into drug discovery by developing target enabling research tools.

The symposium program will feature scientific advances and enabling translational infrastructure resources developed by the Accelerating Medicines Partnership® Alzheimer's Disease (AMP AD®), Alzheimer's Gut Microbiome Project (AGMP), MODEL-AD Consortium, TREAT-AD Centers, Alzheimer's Biomarkers Consortium — Down Syndrome (ABC-DS) and other consortia.

Audience

Academic, biotech and pharmaceutical industry researchers with interests in target and biomarker discovery, personalized medicine, preclinical and clinical drug development; computational biologists; data scientists; and open science advocates.

Wednesday, Oct. 27, 2021

10 – 11:10 a.m.

Session 1: AMP AD – Precision Medicine Approach to Novel Target and Biomarker Discovery

Co-chairs:
Nilüfer Ertekin-Taner, Mayo Clinic
Matthias Arnold, Helmholtz University

Speakers:
Bin Zhang, Icahn School of Medicine at Mount Sinai
Laura Heath, Sage Bionetworks
Phil De Jager, Columbia University
Lenora Ann Higginbotham, Emory University

11:10 – 11:30 a.m.	**Session 1 Q&A**
11:30 – 11:45 a.m.	**Break**
11:45 a.m. – 12:55 p.m.	**Session 2: MODEL-AD Consortium – A Precision Medicine Approach to the Development of Animal Models of Late Onset AD and Preclinical Efficacy Testing** Co-chairs: Bruce Lamb, Indiana University Andrea Tenner, University of California, Irvine Speakers: Greg Carter, The Jackson Laboratory Gareth Howell, The Jackson Laboratory Adrian Oblak, Indiana University Paul Territo, Indiana University Stacey Rizzo, University of Pittsburgh Ali Mortazavi, University of California, Irvine Kim Green, University of California, Irvine
12:55 – 1:15 p.m.	**Session 2 Q&A**
1:15 – 1:30 p.m.	**Break**
1:30 – 2:40 p.m.	**Session 3: TREAT-AD Centers – Expanding the AD Target Landscape and Accelerating Drug Discovery for Novel Targets** Co-chairs: Alan Palkowitz, Indiana University Lara Mangravite, Sage Bionetworks Speakers: Timothy Richardson, Indiana University Andrew Mesecar, Indian University Lara Mangravite, Sage Bionetworks Nick Seyfried Emory University Haian Fu, Emory University
2:40 – 3 p.m.	**Session 3 Q&A**

Thursday, Oct. 28, 2021

10 – 11:10 a.m.	**Session 4: Alzheimer's Gut Microbiome Project** Co-chairs: Rima Kaddurah-Daouk, Duke University Sarkis Mazmanian, California Institute of Technology Speakers: Rob Knight, University of California, San Diego Sarkis Mazmanian, California Institute of Technology Gabi Kastenmuller, Helmholtz University
11:10 – 11:30 a.m.	**Session 4 Q&A**
11:30 – 11:45 a.m.	**Break**
11:45 a.m. – 12:55 p.m.	**Session 5: Impact of Sex Differences on the Molecular Determinants of AD Risk and Resilience and Responsiveness to Treatment** Co-chairs: Catherine Kaczorowski, The Jackson Laboratory Susan Catalano, Cognition Therapeutics Speakers: Carol Colton, Duke University Ivan Nalvarte, Karolinska Institute Dena Dubal, University of California San Francisco Marina Sirota, University of California San Francisco
12:55 – 1:15 p.m.	**Session 5 Q&A**
1:15 – 1:30 p.m.	**Break**
1:30 – 2:40 p.m.	**Session 6: Precision Medicine Cohorts and Consortia – ABC-DS, HABS-HD, LEADS** Co-chairs: Sid O'Bryant, University of North Texas Health Science Center Liana Apostolova, Indiana University Speakers: ABC-DS: Liz Head, University of California, Irvine

	Annie Cohen, University of Pittsburgh Mark Mapstone, University of California, Irvine HABS-HD: Sid O'Bryant, University of North Texas Health Science Center LEADS: Liana Apostolova, Indiana University
2:40 – 3 p.m.	**Session 6 Q&A**