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