

AAIC® Advancements: APOE & Lipid Biology will convene neuroscience researchers at all career stages to learn the latest research and findings on the role of APOE & lipid biology in neurodegenerative diseases. AAIC Advancements: APOE & Lipid Biology is Mar. 17-18 in Miami, USA and online.

MONDAY, MARCH 17, 2025

9 a.m.–9:10 a.m.

Welcome

9:10-9:30 a.m.

Plenary Session: The past, present and future of APOE genetics and AD

Presenters:

John Hardy, University College London, UK

9:30-11:00 a.m.

Session: State-of-the-Field

Moderator:

Alison Goate, Mount Sinai, USA

Presenters:

What is the effect of APOE in other neurodegenerative diseases?

Sonja Scholz, National Institutes of Health/National Institute of Neurological Disorders and Stroke, USA

What is the impact of ancestry on APOE?

Jeffery Vance, University of Miami, USA

Does APOE act in a sex-specific manner?

Logan Dumitrescu, Vanderbilt University Medical Center, USA

What is needed to successfully target APOE therapeutically?

Stacie Weninger, F-Prime Capital, USA

11:00-11:20 a.m.

Break

11:20-12:00 p.m.

Lightning Presentation Round (Submitted Abstracts)

12:00-1:30 p.m.

Lunch and Networking

1:30 p.m.-1:50 p.m.

Plenary Session: Multiple mechanisms of APOE in AD

Presenter:

David Holtzman, Washington University in St. Louis, USA

1:50 p.m.–3:15 p.m.

Session: APOE and cell types

Moderators:

How does APOE exert its effects across different CNS cell types?

Lance Johnson, University of Kentucky, USA

Presenters:

Astrocytes

Amaia Arranz, Achucarro Basque Center for Neuroscience, Spain

Microglia

Sarah Marzi, King's College London, United Kingdom

Oligodendrocytes

Joel Blanchard, Mount Sinai, USA

3:15–4:00 p.m.

Poster Break

4:00–5:30 p.m.

Session: Protective APOE variants

Moderator:

Are there converging mechanisms underlying the protective APOE variants?

Li Gan, Cornell University, USA

Presenter:

APOE Christchurch

Joseph F. Arboleda-Velasquez, Harvard University, USA

APOE2

Rosemary Jackson, University of Dundee, United Kingdom

APOE2

Lance Johnson, University of Kentucky, USA

APOE knockouts

Michael Belloy, Stanford University, USA

APOE4 Protective Locus

Luciana Bertholim Nasciben, University of Miami, USA

5:30–7:30 p.m.

Reception

TUESDAY, MARCH 18, 2025

7:30 a.m.–12 p.m.

Session: APOE and Vasculature

Moderators:

How does APOE-mediated vascular function contribute to AD and VCID pathogenesis?

Takahisa Kanekiyo, Mayo Clinic, USA

Presenters:

APOE and cardiovascular diseases

John T. Melchior, Pacific Northwest National Laboratory, USA

APOE and cerebrovascular system

Andrew C. Yang, University of California - San Francisco, USA

APOE and cerebral amyloid angiopathy

Orla Bonnar, Harvard University, USA

APOE and ARIA

Cynthia Lemere, Harvard University, USA

10:30–11:00 a.m.

Poster Break

11:00 - 12:30 p.m.

Session: APOE and Lipid Metabolism

Moderators:

How is APOE brain lipid metabolism connected to pathogenesis?

Rik van der Kant, Vrije Universiteit Amsterdam, Netherlands

Presenters:

Intracellular ApoE4 and energy metabolism

Sarah Cohen, University of North Carolina at Chapel Hill, USA

Lipid transport and astrocyte reactivity

Fei Yin, The University of Arizona, USA

Lipid droplets in microglia

Michael Haney, University of Pennsylvania, USA

ApoE4 and microglial activation

Wenjie Luo, Cornell University, USA

Role of Glial cells and APOE

Priyanka Narayan, National Institutes of Health, USA

12:30 - 1:30 p.m.

Lunch

1:30 - 3:00 p.m.

Session: The Landscape of Lipid Metabolism

Moderators:

Oihane Uriarte Huarte, Alzheimer's Association, USA

Presenters:

Neurolipid atlas

Rik van der Kant, Vrije Universiteit Amsterdam, Netherlands

PSEN γ -sec and cholesterol metabolism

Thomas C. Südhof, Stanford University, USA

ABCA7

Takahisa Kanekiyo, Mayo Clinic, USA

Lipids and reactive astrocytes

Shane Liddelow, New York University, USA

Lipid challenges and microglia

Martine Therrien, University of California, Davis, USA

3:00 - 3:15 p.m.

Awards and Close

3:15-4:15 p.m.

Session: ECR Publishing Workshop

Moderators:

APOE research highlights from A&D

Donna Wilcock

Lightning Presentation Rounds, ECRs

Roundtable of top tips for how to get published

3:15-4:15 p.m.

Session: ECR Funding Workshop

Moderators:

Alzheimer's Association Grants Team

SAVE THE DATE

Join the Alzheimer's Association® at these upcoming dementia research events.

AAIC Neuroscience Next

Feb. 24-27, 2025 | Online

AAIC Advancements: APOE & Lipid Biology

March 17-18, 2025 | Miami, USA and Online

Tau Global Conference

Apr. 24-25, 2025 | London, UK and Online

AAIC Satellite Symposium

May 14-15, 2025 | Lima, Peru, and Online

AAIC 2025

July 27-31, 2025 | Toronto, Canada and Online

alz.org/scientificmeetings

Join the conversation



@alzassociation

AAICAdvancements

JOIN MORE THAN 13,000 MEMBERS OF ISTAART IN OVER 120 COUNTRIES AND ADVANCE YOUR CAREER AS PART OF A GLOBAL NETWORK



The Alzheimer's Association® International Society to Advance Alzheimer's Research and Treatment (ISTAART) is an inclusive global network of scientists, clinicians and dementia professionals. Members of this professional organization share common goals: the pursuit of knowledge, collaboration and breakthroughs to advance the research and treatment of Alzheimer's disease and other dementias.

Register now to access exclusive member benefits:

- Year-round networking opportunities and informative webinars.
- 30 unique Professional Interest Areas (PIAs) that connect members with common subspecialties, providing a flexible forum to learn and collaborate.
- Discounted conference registration and extended abstract submission deadlines.
- Discounted publication fees for the Alzheimer's & Dementia journal family.
- Access to the ISTAART Career Center, an online jobs board curated for members.
- Free membership for individuals in low and middle income countries.

Become a member now at alz.org/ISTAART.

Questions? Contact ISTAART@alz.org.

INTERNATIONAL SOCIETY TO ADVANCE ALZHEIMER'S
RESEARCH AND TREATMENT (ISTAART)

ISTAART
ALZHEIMER'S ASSOCIATION