

The Alzheimer's Imaging Consortium (AIC), a preconference to AAIC, will focus on the frontiers of neuroimaging of Alzheimer's and other dementia. The program will focus on novel imaging techniques and analysis, how neuroimaging can drive discoveries in and improve understanding of the disease, and how these innovations can have an impact on clinical applications. The program consists of invited speakers, oral and poster presentations from submitted abstracts, a mentoring lunch for early career researchers, and a read-with-the-experts session. AIC brings together neuroimaging researchers from around the world and highlights the technical progress and recent innovations in neuroimaging that will enhance clinical applications of the future. A reception will follow for registered attendees. *Eastern Standard Time; In-Person Attendance Only*

Organizing Committee

This pre-conference is organized by the Neuroimaging Professional Interest Area (PIA) of the International Society to Advance Alzheimer's Research and Treatment (ISTAART).

Tobey Betthausen,
 University Of Wisconsin-Madison, United States

David Cash,
 University College London, United Kingdom

Tavia Evans, Erasmus MC, Netherlands

Michael Ewers,
 LMU München, Germany

Helena Gellersen,
 German Center For Neurodegenerative Diseases (DZNE), Germany

Brian Gordon,
 Washington University School Of Medicine, United States

Tessa Harrison,
 University Of California, Berkeley, United States

Alexa Pichet Binette,
 University Of Montreal, Canada

Anika Wuestefeld,
 Lund University, Sweden

Yara Yakoub,
 McGill University, Canada

Target Audience

All clinicians involved in the care or research of individuals with memory or other cognitive complaints (including but not limited to neurologists, psychiatrists, radiologists, geriatricians, neuropsychologists, physicians and nurses); researchers, industry and regulatory agency stakeholders; and others involved in the use of imaging techniques in the study of Alzheimer's disease, related disorders and normal aging.

Learning Objectives

- » Summarize current Alzheimer's disease and related dementias (ADRD) neuroimaging research methods, clinical research findings, and clinical applications.
- » Distinguish between different neuroimaging modalities and their unique and complementary contributions to understanding ADRD.
- » Understand how neuroimaging is applied in a clinical context.

Registration

Pre-conferences are offered for in-person attendance only. Preconferences require a separate registration fee in addition to AAIC full conference registration, or they may be purchased as stand-alone events. Visit alz.org/AAIC.

Agenda

8-8:05 a.m.

Opening Remarks

Tobey Betthausen, *Chair Neuroimaging PIA*

8:05-8:35 a.m.

Plenary Session: Neuroimaging Research On Alzheimer's Disease And Related Disorders: What Have We Learned?

Moderator: Tobey Betthausen

Presenter: Emma Coomans

8:35-9:50 a.m.

Scientific Session #1: Tau PET Propagation And Pathways To Harmonization

Moderators: Tessa Harrison, Yara Yakoub

Presenters: Alexis Moscoso, Christopher Rowe, Robin Sandell,
Guilherme Bauer-Negrini, Yishu Chao, Julie Ottoy

9:50-10:05 a.m.

Break

10:05-11:20 a.m.

Scientific Session #2: Neuroimaging Co-Pathologies Beyond ATN

Moderators: Michael Ewers, Anika Wuestefeld

Presenters: Leslie Gaynor, Mahir Tazwar, Vincent Dore, Veronika Pak, Mario Torso,
Hadrien Lalive

11:20 a.m.-Noon

Plenary Session: PET Signals At Cellular Resolution To Investigate Target-Specific Radiotracers For Neurodegeneration And Neuroinflammation

Moderators: Tobey Betthause, Alexa Pichet Binette

Presenter: Matthias Brendel

Noon-1 p.m.

Lunch And Mentor/Mentee Luncheon

Mentors: Tobey Betthausen, Gérard Bischof, Rachel Buckley, Annie Cohen, Gill Farrar,
Nicolai Franzmeier, Timothy J. Hohman, Renaud La Joie, Susan M. Landau,
Sam Lockhart, Anne Maass, Melissa Murray, Daniel T. Ohm,
Gemma Salvadó, Prashanthi Vemuri, Natalia Vilor-Tejedor, Laura Wisse,
Alexandra Young, Eduardo Zimmer

1-1:35 p.m.

Data Blitz Presentations

Moderators: Tavia Evans, Yara Yakoub

Presenters: Sarah Ackley, Chenyang Li, Nicole McKay, Pulkit Khandelwal, Saehyun Kim,
Brittany Intzandt, Christian Limberger, Niklas Behrenbruch

1:35-2:35 p.m.

Scientific Session #3: Multimodal Neuroimaging In ADRD

Moderators: Helena Gellersen, Alexa Pichet Binette

Presenters: Brian Gordon, Sarah Forrester, Nidhi Mundada, Qing Yang, Niels Reijner

2:35-3:45 p.m.

Break And Poster Viewings

Agenda

- 3:45-4:30 p.m.** **Updates On The Use Of PET In Clinical Practice: A SNMMI Collaboration**
Moderator: **Brian Gordon**
Presenter: **Mary Ellen Koran, SNMMI Brain Imaging Council Chair**
Discussant: **David Soleimani-Meigooni**
- 4:30-4:45 p.m.** **Presentation Of The Neuroimaging Awards**
Presenter: **Michael Ewers, Vice Chair Neuroimaging PIA**
- 4:45-5 p.m.** **Closing Remarks**
Tobey Betthausen, *Chair Neuroimaging PIA*
- 5:15-7 p.m.** **Networking Reception** (The Westin Harbour Castle, Metropolitan Ballroom West)
Joint Event With Technology And Dementia Preconference

Plenary Speakers



Emma Coomans, Ph.D.

Neuroimaging Research On Alzheimer's Disease And Related Disorders: What Have We Learned?

Alzheimer Center Amsterdam, Netherlands

Emma Coomans, Ph.D., obtained a Bachelor's in Biomedical Sciences and a Master's in Neurosciences before completing her Ph.D. (2023) at the Department of Radiology and Nuclear Medicine, Amsterdam UMC, the Netherlands. Her thesis investigated Alzheimer's disease pathophysiology using Tau-PET imaging in symptomatic Alzheimer's disease and genetically identical twins. She now works as a postdoctoral researcher at the Alzheimer Center Amsterdam under the supervision of Rik Ossenkoppele, PhD, focusing on Tau-PET imaging and its application in clinical practice and in trials.



Matthias Brendel, M.D.

PET Signals At Cellular Resolution To Investigate Target-Specific Radiotracers For Neurodegeneration And Neuroinflammation

Ludwig-Maximilians-Universität München, Germany

Prof. Matthias Brendel, M.D., is a group leader in molecular imaging of neurodegenerative and neurooncological diseases of the Department of Nuclear Medicine at the Ludwig-Maximilians-Universität München (LMU Munich). He has been working in the field of neuroimaging for 14 years and his principal research focus is located in translational molecular neuroimaging by PET. He has a proven track record for coordinating academic research studies including a recent multi-center study on second generation tau-PET in progressive supranuclear palsy. One current major focus is dedicated to single cell analysis after radiotracer injection (i.e. scRadiotracing) to disentangle cellular sources of PET signals in neurodegeneration and neurooncology. These preclinical and clinical efforts resulted in recent development of a TREM2 specific radiotracer at LMU Hospital which is on its way to patient use as the first microglia-specific PET biomarker.



Mary Ellen Koran, M.D., Ph.D.

Updates On The Use Of PET In Clinical Practice: A SNMMI Collaboration

Mayo Clinic Arizona, United States

Mary Ellen Koran, M.D., Ph.D. is a dual-boarded diagnostic radiologist and nuclear medicine physician, with a Ph.D in the genetics of Alzheimer's Disease. She is a practicing physician-scientist at the Mayo Clinic in Arizona in the Nuclear Medicine division, where clinically she interprets PET and nuclear medicine imaging from head to toe while her research focuses on the genetics of early Alzheimer's disease using amyloid and tau PET imaging. She currently holds an Alzheimer's Association Clinical Scientist Fellowship award and is a Beeson scholar.

This will be an interactive session where we will discuss changes and updates in utilization of amyloid and tau PET in the clinic, including appropriate use criteria, quantification, and follow up imaging in the context of anti-amyloid therapies. We will cover how ARIA is evaluated and monitored in anti-amyloid clinics. We will review the status of reimbursement for and access to these different modalities and treatments.



Senior Scientist

Christos Davatzikos, Ph.D.

University Of Pennsylvania, United States

Christos Davatzikos is the Wallace T. Miller Sr. Professor of Radiology at the University of Pennsylvania, and Director of the recently founded AI2D Center for AI and Data Science for Integrated Diagnostics. He has been the Founding Director of the Center for Biomedical Image Computing and Analytics since 2013, and the director of the AIBIL (AI in Biomedical Imaging Lab). He holds secondary appointments in Electrical and Systems Engineering, Computer and Information Science, and in the Division of Informatics at Penn. He obtained his undergraduate degree from the National Technical University of Athens, Greece in 1989 and his Ph.D. degree from Johns Hopkins in 1994 on a Fulbright scholarship. He then joined the faculty in Radiology and later in Computer Science, where he founded and directed the Neuroimaging Laboratory. In 2002 he moved to Penn, where he founded and directed the section of biomedical image analysis. Dr. Davatzikos' interests are in medical image analysis. He oversees a diverse research program ranging from basic problems of imaging pattern analysis and machine learning, to a variety of clinical studies of aging and Alzheimer's Disease, neuropsychiatric disorders, and brain cancer.

Dr. Davatzikos has served on a variety of scientific journal editorial boards and grant review committees. He is an IEEE fellow, a fellow of the American Institute for Medical and Biological Engineering and member of the council of distinguished investigators of the U.S. Academy of Radiology and Biomedical Imaging Research. He was the recipient of the NIA Nathan Schock Lecture award in 2024.

2025 de Leon Prizes In Neuroimaging Award Winners



Junior Scientist

Hironobu Endo, M.D., Ph.D.

National Institutes For Quantum Science
And Technology, Japan

Hironobu Endo, Ph.D., M.D., is a Senior Researcher at the National Institutes for Quantum Science and Technology, focusing on neurodegenerative disease research and advanced neuroimaging. He earned his M.D. from Oita University and Ph.D. in Neurology from Kobe University. Endo's postdoctoral training includes a fellowship at Johns Hopkins University's Department of Radiology and Radiological Science. His work has been recognized with awards from the Japanese Society of Neurology and Japan Society for Dementia Research. Dr. Endo's research combines clinical expertise with cutting-edge imaging techniques to advance our understanding of brain disorders.



Junior Scientist

Maiko Ono, Ph.D.

National Institutes For Quantum Science
And Technology, Japan

Maiko Ono has promoted research on brain activity and brain disease pathology through the multimodal use of PET, MRI, and other biological imaging techniques as a Research Scientist (2010-2024) and Senior Researcher (2025-) at National Institutes for Quantum Science and Technology from Japan. In 2017 Ono received a Doctor of Philosophy in Medical Science from Tohoku University Graduate School of Medicine. In 2021 Ono was awarded the Incentive Award at the 40th Annual Meeting of Japan Society for Dementia Research. Also awarded Subject "In Vivo Visualization Of Propagating α -Synuclein Pathologies In Mouse And Marmoset Models."

2025 de Leon Prizes In Neuroimaging Award Winners



Trainee

Karly Cody, Ph.D.

Stanford University, United States

Karly Cody is a postdoctoral fellow working with Dr. Elizabeth Mormino in the Department of Neurology and Neurological Sciences at Stanford University. She completed her Ph.D. in Neuroscience at the University of Wisconsin in the lab of Dr. Sterling Johnson. Her current research implements neuroimaging and fluid biomarkers to characterize pathological and clinical trajectories in aging and Alzheimer's disease.

Networking Opportunities For Neuroimagers At AAIC 2025

AIC Mentoring Luncheon

Saturday, July 26: Noon-1 p.m.

Metro Toronto Convention Centre

Early career researcher - get matched with a mentor for a mentoring session over lunch. Advance sign up required, open to all registered attendees of AIC.

AIC Reception

Saturday, July 26: 5:30-7 p.m.

Westin Harbour Castle

Join us for refreshments and networking after the preconference. Open to all registered attendees of AIC.

AAIC Neuroimaging Buddies

Sunday, July 27-Wednesday, July 30

Metro Toronto Convention Centre

Looking for other neuroimagers at AAIC25, or want to meet with others on-site? Join a group of neuroimagers to explore the conference as a first timer. Advance sign up required, or explore the virtual forum* at istaart.alz.org/AIC to start a discussion or arrange a meet-up! Open to all registered attendees of AAIC. *Virtual forum requires login to ISTAART Community

Slido Live Polling

Join us for an interactive experience at the Alzheimer's Imaging Consortium! Engage and participate in our live polling with Slido. React, contribute, provide feedback, and enhance your experience during sessions throughout the event. Simply visit slido.com and enter the key #AAIC25 to join the conversation!

SAVE THE DATES

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

AAIC Neuroscience Next

Feb. 23-26, 2026

Online

Tau Global Conference

May 14-15, 2026

Washington, D.C., And Online

alz.org/scientificmeetings

Neuroimaging PIA Events At AAIC 2025

ISTAART Immersives: Basics of Genetic Analysis

Friday, July 25th: 8 a.m.-Noon
Westin Harbour Castle, Pier 2

Join this workshop to learn about the fundamentals of genetic analysis within the framework of brain imaging genetics research. Pre-registration is required.

ISTAART Immersives: Getting Started With Neuroimaging Analysis

Friday, July 25th: 1-5 p.m.
Westin Harbour Castle, Pier 7 and 8

Join this workshop for an interactive, hands-on opportunity to view, process, analyse and interpret medical imaging data. Pre-registration is required.

Other Related Neuroimaging Events At AAIC 2025

ISTAART Immersives: Harmonizing Amyloid And Tau PET Data Across Tracers And Centers Using The Global Alzheimer's Association Interactive Network

Friday, July 25th: 8 a.m.-Noon
Westin Harbour Castle, Queens Quay

Join this workshop to learn how Centiloid and CenTauR values are derived from PET imaging and how to interpret the harmonized data. Pre-registration is required.

ISTAART Immersives: ADSP Phenotype Harmonization Consortium: From Fundamentals To AI In Diffusion MRI For Alzheimer's Disease

Friday, July 25th: 8 a.m.-Noon
Westin Harbour Castle, Harbour A

Join this workshop to learn about a comprehensive overview of dMRI image processing and the statistical harmonization strategies. Pre-registration is required.

ISTAART Immersives: Cognitive Resilience In Alzheimer's Disease: Concepts, Statistical Tools And Policy Shaping

Friday, July 25th: 1-5 p.m.
Westin Harbour Castle, Pier 2

Join this workshop and learn state-of-the-art approaches to investigating, quantifying and promoting resilience against Alzheimer's disease in older adults, with an emphasis on effectively communicating findings to policymakers. Pre-registration is required.

ISTAART Intermissions: NiChart: A Neuroimaging Platform For AI-Based Precision Medicine

Tuesday, July 29th: 12:15-2 p.m.
Metro Toronto Convention Centre, 808

ISTAART Intermissions provides a forum for peers to meet and engage in focused conversations in key subject areas during AAIC lunch breaks. Limited Seating. Open to all registered AAIC attendees on a first-come, first-served basis. *Please bring your laptop to follow along with the presentation.*



THE GLOBAL FORUM TO ADVANCE DEMENTIA SCIENCE



JULY 12-16 ANNUAL CONFERENCE

July 10-11 Educational Workshops and Preconferences

July 12-15 Exhibits

LONDON, UNITED KINGDOM, AND ONLINE

Join distinguished basic scientists, clinical researchers, early career investigators, clinicians and the care research community to share theories and breakthroughs at the largest and most influential international conference on dementia science.

Abstract submissions open in December 2025.

Registration opens at alz.org/AAIC in March 2026.

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 a diverse 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:

- 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 for the Alzheimer's Association International Conference® (AAIC®) and other scientific meetings year round.
- Continuing Education (CE) and Continuing Medical Education (CME) opportunities, including in-person workshops, webinars and podcasts.
- Free membership for students and individuals in low- and middle-income countries.
- And more.

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