**Vanderbilt University Medical Center**

 **Alzheimer's Disease Research Day CME APA 2024**

**Morning Session #2: Large-Scale Imaging Data Integration in Alzheimer’s Disease**

Date: 10:30 April 10, 2024 - 11:30 April, 10, 2024

Location: Other

**Accreditation**

 Vanderbilt University Medical Center is accredited by the Accreditation Council forContinuing Medical Education to provide continuing medical education for physicians.

Vanderbilt University Medical Center is approved by the American Psychological Association to sponsor continuing education for psychologists. Vanderbilt University Medical Center maintains responsibility for this program and its content.

**Credit Designation**

Vanderbilt University Medical Center designates this live activity for a maximum of 1.00 *AMA PRA Category 1 Credit(s)*TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity

This activity is designated to award a maximum of 1.00 APA CE credit(s).

 resources for research on Alzheimer’s disease and related dementias.\*

4 Describe omics-based methodologies that can advance understanding of Alzheimer’s pathophysiology.

5 Develop strategies for overcoming multi-site data integration challenges in Alzheimer’s research.

6 Discuss the advantages and limitations of using Medicare claims data for monitoring Alzheimer’s disease and related dementias.

7 Gain insight into harmonization techniques for large-scale neuroimaging data.

8 Identify key principles, frameworks, and best practices to promote data equity.

9 Evaluate the potential of artificial intelligence in repurposing drugs for Alzheimer’s disease and related dementias.

10 Discuss applications for estimating and leveraging genetic predictors of neuroimaging derived phenotypes.

11 Discuss the integration of multiple forms of molecular imaging and how they can be applied to study disease.

12 Provide new findings from multi-omics technologies that can help move toward precision medicine interventions.

13 Discuss how deep learning can contribute to understanding the heterogeneity of brain aging.

14 Explore applications of deep learning methods for imaging genomics.

15 Apply best practices to implement data equity approaches.

**Target Audience**

Neurology, Biochemistry, Biomedical Informatics, Biostatistics, Cell And Developmental Biology, Health Policy, Medicine, Molecular Physiology &Amp; Biophysics, Pathology, Microbiology And Immunology, Pharmacology, Psychiatry And Behavioral Sciences, Radiology And Radiological Sciences

**Americans with Disabilities Act**

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**Commercial Support**

This activity received no commercial support.

**Financial Disclosures**

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All relevant conflicts of interest have been mitigated before this activity started.

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| --- | --- | --- |
| **Name of individual** | **Individual's role in activity** | **Nature of Relationship(s) / Name of Ineligible Company(s)** |
| Angela Jefferson, PhD | Activity Director, Faculty | Membership on Advisory Committees or Review Panels, Board Membership, etc.-American Federation for Aging Resarch|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Kansas University|Membership on Advisory Committees or Review Panels, Board Membership, etc.-National Institutes of Health|Membership on Advisory Committees or Review Panels, Board Membership, etc.-National Institutes of Health|Grant or research support - 03/27/2024 |
| Bennett Landman, PhD | Faculty | Nothing to disclose - 03/17/2024 |
| Eric Gamazon, PhD | Faculty | Nothing to disclose - 03/13/2024 |
| Wei-Qi Wei, MD | Faculty | Nothing to disclose - 03/27/2024 |
| Laura M Keohane, PhD | Faculty | Nothing to disclose - 03/14/2024 |
| Jennifer E Below , PhD | Faculty | Nothing to disclose - 03/27/2024 |
| Derek B Archer, PhD | Faculty | Nothing to disclose - 03/13/2024 |
| Timothy J Hohman, PhD | Faculty | Membership on Advisory Committees or Review Panels, Board Membership, etc.-Vivid Genomics (Relationship has ended)|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Alzheimer's Association - 03/26/2024 |
| Amalia Peterson, MD | Activity Director | Nothing to disclose - 03/19/2024 |
| Ashley Emerson, BS | Planning Committee Member | Nothing to disclose - 01/10/2024 |
| Elena Griffo, BA | CME/CE Associate | Nothing to disclose - 01/08/2024 |
| Angela Kruse, PhD | Faculty | Nothing to disclose - 03/27/2024 |
| Francis E Cambronero, PhD | Faculty | Nothing to disclose - 03/26/2024 |
| Christos Davatzikos, PhD | Faculty | Nothing to disclose - 03/27/2024 |

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