Tuesday, November 8

7:00pm – 9:00pm  Registration and Welcome Reception

Wednesday, November 9

7:00am – 8:00am  BREAKFAST

8:00am – 8:15am  GENERAL SESSION: Introduction to BrightFocus Alzheimer’s Fast Track

SESSION I: STATE OF THE SCIENCE: CLINICAL TO MOLECULAR
Moderator: Cynthia Lemere, PhD

8:15am – 8:35am  Alzheimer’s Disease and Related Dementias: Clinical and Pathologic Overview

8:35am – 8:55am  Rewriting the Initial Stages of Alzheimer’s Disease: The Role of Neuromodulatory Systems in Pre-Cognitive Symptoms and Disease Pathogenesis

8:55am – 9:15am  Plasma Proteomics at Midlife to Estimate Alzheimer’s Disease Risk

9:15am – 9:35am  Spatial Biology of Atypical Alzheimer’s
BrightFocus Alzheimer’s Fast Track®
November 9 – 11, 2022

9:35am – 10:05am  Group Discussion

10:05am – 10:15am  BREAK  Mission A Foyer

SESSION II: PROFESSIONAL SKILLS FOR SCIENTISTS
Moderator: Frank M. LaFerla, PhD

10:15am – 10:30am  How to Write a Successful Grant  Cynthia Lemere, PhD
Brigham and Women’s Hospital, Harvard Medical School

10:30am – 10:45am  Facilitating Success for Early-Career Investigators  Frank LaFerla, PhD
University of California, Irvine

10:45am – 11:45am  Make an Impact With Your Speech and Style  Bri McWhorter
Activate to Captivate, LLC

11:45am – 12:15pm  Group Discussion

12:15pm – 1:15pm  LUNCH  Café Patio (weather backup: Mission AB)

SESSION III: ELEVATOR PITCH and MOCK GRANT PROPOSAL KICKOFF
Moderator: Harry Steinbusch, PhD

1:15pm – 3:15pm  Individual Elevator Pitches

3:15pm – 3:30pm  BREAK  Mission A Foyer

3:30pm – 4:30pm  Presentation Feedback  Mission CD
Bri McWhorter
Activate to Captivate, LLC

4:30pm – 6:30pm  Mock Grant Proposal Workgroups:  Modeling Alzheimer’s disease | OMICS | Aging | Risk Factors | Immunity/Inflammation | Diagnostics | Drug Development/Repurposing
Mission CD (4 groups), La Jolla (1 group), Pacific (1 group), Cabrillo Suite (1 group)

7:00pm – 9:00pm  DINNER  Mission AB
Thursday, November 10

7:00am - 8:00 am BREAKFAST

MORNING SESSION I: AGING, (epi)GENETICS, and OMICS
Moderator: Harry Steinbusch, PhD

8:00am - 8:20am The Role of Epigenetics in the Progression of Alzheimer’s Disease
Harry Steinbusch, PhD
Maastricht University, the Netherlands

8:20am - 8:40am Senescent-Like Human Primary Neurons Undergo Selective Human Immune NK Cell-Mediated Clearance
Julie Andersen, PhD
The Buck Institute for Research on Aging

8:40am - 9:00am What Do Reactive Astrocytes (Really) Do?
Shane Liddelow, PhD
New York University

9:00am - 9:20am Modeling and Characterizing Alzheimer’s Disease With iPSCs and Transcriptomics
Li-Huei Tsai, PhD
Massachusetts Institute of Technology

9:20am - 9:50am Group Discussion

9:50am - 10:00am BREAK

MORNING SESSION II: CLINICAL TRIALS
Moderator: Frank LaFerla, PhD

10:00am - 10:20am The Role of Repurposed Agents in Development of Alzheimer’s Disease Therapeutics
Jeffrey Cummings, MD, ScD
Chambers-Grundy Center for Transformative Neuroscience, University of Nevada, Las Vegas

10:20am - 10:40am Targeting Pathogenic Pyroglutamate-3 Amyloid-beta for the Treatment of AD
Cynthia Lemere, PhD
Brigham and Women’s Hospital, Harvard Medical School

10:40am - 11:00am Alzheimer’s Disease Clinical Trials
Joshua Grill, PhD
University of California, Irvine

11:00am - 11:20am Sex Differences in Risk and Resilience to Alzheimer’s Disease
Rachel Buckley, PhD
Brigham and Women’s Hospital, Harvard Medical School
BrightFocus Alzheimer’s Fast Track®
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11:20am - 11:50am  Group Discussion

11:50am - 12:50pm  LUNCH  Café Patio (weather backup: Mission AB)

AFTERNOON SESSION I: CELLULAR INTERACTIONS
Moderator: Cynthia Lemere, PhD

12:50pm - 1:10pm  A Gene Editing Therapeutic Strategy for Alzheimer’s Disease
Subhojit Roy, MD, PhD
University of California, San Diego

1:10pm - 1:30pm  The Influence of the Gut Microbiome on Alzheimer’s Disease
Laura Cox, PhD
Brigham and Women’s Hospital, Harvard Medical School

1:30pm - 1:50pm  Astrocyte Targeting With Optogenetics Slows Alzheimer’s Disease in a Mouse Model
Ksenia Kastanenka, PhD
Massachusetts General Hospital

1:50pm - 2:10pm  The Two-Edged Sword of Reactive Gliosis in Alzheimer’s Disease and Other Types of Neurodegeneration
Milos Pekny, MD, PhD, and Marcela Pekna, MD, PhD
University of Gothenburg, Sweden

2:10pm - 2:40pm  Group Discussion

2:40pm - 2:50pm  BREAK  Mission A Foyer

AFTERNOON SESSION II: MODELING ALZHEIMER’S DISEASE
Moderator: Frank LaFerla, PhD

2:50pm - 3:10pm  Harnessing iPSC-Microglia to Deliver Therapeutic Proteins to the Brain
Mathew Blurton-Jones, PhD
University of California, Irvine

3:10pm - 3:30pm  Mouse Models for Studying Alzheimer’s Disease
Joanna Jankowsky, PhD
Baylor College of Medicine

3:30pm - 3:50pm  The Benefits of Studying Eyes and Brains to Uncover Common Mechanisms of Neurodegenerative Diseases
Gareth Howell, PhD
The Jackson Laboratory
### BrightFocus Alzheimer’s Fast Track®
**November 9 – 11, 2022**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>3:50pm - 4:10pm</td>
<td>Improving the Rigor, Reproducibility and Predictive Validity of Preclinical Research for Alzheimer’s Disease: Alzheimer’s Disease Preclinical Efficacy Testing Database (AlzPED)</td>
<td>Jayalakshmi Viswanathan, PhD, National Institute on Aging</td>
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<td>4:10pm - 4:40pm</td>
<td>Group Discussion</td>
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<td>4:40pm – 5:00pm</td>
<td>BREAK</td>
<td>Mission A Foyer</td>
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<tr>
<td>5:00pm – 7:00pm</td>
<td>Mock Grant Proposal Workgroups</td>
<td>Mission CD (4 groups)</td>
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<td></td>
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<td>La Jolla (1 group)</td>
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<td>Cabrillo Suite (1 group)</td>
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<td>7:00pm – 9:00pm</td>
<td>DINNER</td>
<td>Beach (Weather backup: Mission AB)</td>
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#### Friday, November 11

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:30am - 8:30am</td>
<td>BREAKFAST</td>
<td>Mission AB</td>
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<tr>
<td>8:30am – 8:50am</td>
<td>Targeting Soluble TNF-Dependent Chronic Inflammation to Reduce Neurodegeneration</td>
<td>Malú Tansey, PhD, University of Florida</td>
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<tr>
<td>8:50am – 9:10am</td>
<td>Alzheimer’s Disease in Down Syndrome</td>
<td>Elizabeth Head, PhD, University of California, Irvine</td>
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<td>9:10am – 9:30am</td>
<td>Vascular Contributions to Alzheimer’s Disease and Implications of COVID</td>
<td>Cheryl Wellington, PhD, University of British Columbia, Canada</td>
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<td>9:30am – 9:50am</td>
<td>Sleep and Alzheimer’s Disease</td>
<td>Brendan Lucey, MD, Washington University in St. Louis</td>
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<td>9:50am – 10:10am</td>
<td>Unquiet Genes and Their Invisible Ancestry</td>
<td>Kenneth Kosik, MD, University of California, Santa Barbara</td>
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<td>10:10am – 10:40am</td>
<td>Group Discussion</td>
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10:40am – 11:00am  BREAK

SESSION II: MOCK GRANT PROPOSALS
Moderator: Harry Steinbusch, PhD

11:00am – 11:15am  Modeling Alzheimer’s disease
11:15am – 11:30am  Critique
11:30am – 11:45am  OMICS
11:45am – 12:00pm  Critique
12:00pm – 12:15pm  Aging
12:15pm – 12:30pm  Critique
12:30pm – 1:30pm   LUNCH
1:30pm – 1:45pm   Risk Factors
1:45pm – 2:00pm   Critique
2:00pm – 2:15pm   Immunity/Inflammation
2:15pm – 2:30pm   Critique
2:30pm – 2:45pm   Diagnostics
2:45pm – 3:00pm   Critique
3:00pm – 3:15pm   Drug Development/Repurposing
3:15pm – 3:30pm   Critique
3:30pm – 4:00pm  BREAK | SCIENTIFIC REVIEW
4:00pm – 4:30pm   Award Announcements
4:30pm – 5:00pm   Adjourn | Closing Remarks

Mission A Foyer
Mission CD
Café Patio (weather backup: Mission AB)