## Tuesday, November 8

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

## Wednesday, November 9

| 7:00am - 8:00am | BREAKFAST |
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| 8:00am - 8:15am | GENERAL SESSION: Introduction to BrightFocus <br> Alzheimer's Fast Track |
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| SESSION I: STATE OF THE SCIENCE: CLINICAL TO MOLECULAR |  |
| Moderator: Cynthia Lemere, PhD |  |


| 8:15am - 8:35am | Alzheimer's Disease and Related Dementias: <br> Clinical and Pathologic Overview |
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| 8:35am - 8:55am | Rewriting the Initial Stages of Alzheimer's <br>  <br>  <br> Disease: The Role of Neuromodulatory <br> Systems in Pre-Cognitive Symptoms <br> and Disease Pathogenesis |
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| 8:55am - 9:15am | Plasma Proteomics at Midlife to <br>  <br>  <br> Estimate Alzheimer's Disease Risk |
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## Ventana

## Mission AB

Mission CD
Sharyn Rossi, PhD
BrightFocus Foundation
Harry Steinbusch, PhD
Maastricht University, The Netherlands
Frank LaFerla, PhD
University of California, Irvine
Cynthia Lemere, PhD
Brigham and Women's Hospital, Harvard Medical School

Mission CD

Julie Schneider, MD
Rush University

## Lea Grinberg, MD, PhD

University of California, San Francisco

Keenan Walker, PhD
National Institute on Aging

Melissa Murray, PhD
9:35am - 10:05am Group Discussion
10:05am - 10:15am BREAK
SESSION II: PROFESSIONAL SKILLS FOR SCIENTISTS
Moderator: Frank M. LaFerla, PhD
10:15am - 10:30am How to Write a Successful Grant
10:30am - 10:45am Facilitating Success for Early-Career Investigators
10:45am - 11:45am Make an Impact With Your Speech and Style
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 Mission CD Moderator: Harry Steinbusch, PhD

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

3:15pm - 3:30pm
BREAK

3:30pm - 4:30pm Presentation Feedback

## Mission A Foyer

Mission CD
Bri McWhorter
Activate to Captivate, LLC
$\begin{aligned} \text { 4:30pm - 6:30pm } & \text { Mock Grant Proposal Workgroups: Modeling Alzheimer's disease | OMICS | Aging | } \\ & \text { Risk Factors | Immunity/Inflammation | Diagnostics | Drug Development/Repurposing } \\ & \text { Mission CD (4 groups), La Jolla (1 group), Pacific (1 group), Cabrillo Suite (1 group) }\end{aligned}$

7:00pm - 9:00pm DINNER Mission AB

# Thursday, November 10 

| 7:00am - 8:00 am | BREAKFAST | Mission AB |
| :---: | :---: | :---: |
| MORNING SESSION <br> Moderator: Harry St | I: AGING, (epi)GENETICS, and OMICS einbusch, PhD | Mission CD |
| 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 <br> 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 | Mission A Foyer |
| MORNING SESSION <br> Moderator: Frank La | II: CLINICAL TRIALS Ferla, PhD | Mission CD |
| 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 <br> Brigham and Women's Hospital, <br> 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 <br> Brigham and Women's Hospital, <br> Harvard Medical School |


| 11:20am-11:50am | Group Discussion |  |
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| 11:50am-12:50pm | LUNCH | Café Patio (weather backup: Mission AB) |
| AFTERNOON SESSIO Moderator: Cynthia L | I I: CELLULAR INTERACTIONS Lemere, PhD | Mission CD |
| 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 <br> 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 <br> Massachusetts General Hospital |
| 1:50pm - $2: 10 \mathrm{pm}$ | 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 SESSIO Moderator: Frank LaF | N II: MODELING ALZHEIMER'S DISEASE Ferla, PhD | Mission CD |
| 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 |


| 3:50pm -4:10pm | Improving the Rigor, Reproducibility and <br> Predictive Validity of Preclinical Research for <br> Alzheimer's Disease: Alzheimer's Disease <br> Preclinical Efficacy Testing Database (AlzPED) |
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4:10pm - 4:40pm Group Discussion
4:40pm - 5:00pm BREAK
5:00pm - 7:00pm Mock Grant Proposal Workgroups

7:00pm-9:00pm DINNER

## Friday, November 11

| 7:30am - 8:30am |
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| MORNING SESSION I: RISK FACTORS and INTERVENTIONS FOR ADRD |
| Moderator: Cynthia Lemere, PhD |


| 8:30am - 8:50am | Targeting Soluble TNF-Dependent Chronic <br> Inflammation to Reduce Neurodegeneration |
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| 8:50am - 9:10am | Alzheimer's Disease in Down Syndrome |
| 9:10am - 9:30am | Vascular Contributions to Alzheimer's Disease <br> and Implications of COVID |
| 9:30am - 9:50am | Sleep and Alzheimer's Disease |
| 9:50am - 10:10am | Unquiet Genes and Their Invisible Ancestry |
| 10:10am - 10:40am Group Discussion |  |

Jayalakshmi Viswanathan, PhD
National Institute on Aging

Mission A Foyer

Mission CD (4 groups)
La Jolla (1 group)
Pacific (1 group)
Cabrillo Suite (1 group)

Beach (Weather backup: Mission $A B$ )

## Mission AB

Mission CD

Malú Tansey, PhD
University of Florida

Elizabeth Head, PhD<br>University of California, Irvine

Cheryl Wellington, PhD
University of British Columbia, Canada

Brendan Lucey, MD
Washington University in St. Louis
Kenneth Kosik, MD
University of California, Santa Barbara

## Mission A Foyer

Mission CD
SESSION II: MOCK GRANT PROPO
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

