

# BrightFocus ALZHEIMER'S FAST TRACK



November 9-11, 2022 | Bahia Resort, San Diego, CA

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## ■ Tuesday, November 8

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

Ventana

## ■ Wednesday, November 9

7:00am – 8:00am BREAKFAST

Mission AB

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

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*

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

8:15am – 8:35am Alzheimer's Disease Basics and Co-Morbidities

**Julie Schneider, MD**  
*Rush University*

8:35am – 8:55am Neuropathological Characteristics of Alzheimer's Disease

**Lea Grinberg, MD, PhD**  
*University of California,  
San Francisco*

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

**Keenan Walker, PhD**  
*National Institute on Aging*

9:15am – 9:35am Spatial Biology of Atypical Alzheimer's Disease: Neuroimaging to Neuropathology

**Melissa Murray, PhD**  
*Mayo Clinic, Jacksonville*

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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

## 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

3:30pm – 4:30pm Presentation Feedback

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

7:00pm – 9:00pm DINNER

Mission A Foyer

Mission CD

**Cynthia Lemere, PhD**  
*Brigham and Women's Hospital,  
Harvard Medical School*

**Frank LaFerla, PhD**  
*University of California, Irvine*

**Bri McWhorter**  
*Activate to Captivate, Inc.*

Café Patio (weather backup: Mission AB)

Mission CD

Mission A Foyer

Mission CD  
**Bri McWhorter**  
*Activate to Captivate, Inc.*

Mission AB

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■ **Thursday, November 10**

**7:00am - 8:00 am** BREAKFAST

**Mission AB**

**MORNING SESSION I: AGING, (epi)GENETICS, and OMICS**

**Moderator: Harry Steinbusch, 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** Aging as a Major Risk Factor for Alzheimer's Disease

**Julie Andersen, PhD**  
*The Buck Institute for Research on Aging*

**8:40am - 9:00am** Omics and Astrocytes in Alzheimer's Disease

**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 II: CLINICAL TRIALS**

**Moderator: Frank LaFerla, PhD**

**Mission CD**

**10:00am - 10:20am** The Role of Repurposed Agents in Development of Alzheimer's Disease Therapeutics

**Jeffrey Cummings, MD**  
*Chambers-Grundy Center for Transformative Neuroscience  
University of Nevada, Las Vegas*

**10:20am - 10:40am** Targeting Pathogenic Pyroglutamate-3 Abeta to Treat Alzheimer's Disease

**Cynthia Lemere, PhD**  
*Brigham and Women's Hospital,  
Harvard Medical School*

**10:40am - 11:00am** Clinical Trial Design and Recruitment

**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*

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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

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**  
*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 Reactive Gliosis in Alzheimer's Disease and Neurodegeneration

**Milos Pekny, PhD, and  
Marcela Pekna, PhD**  
*University of Gothenberg, 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

Mission CD

2:50pm - 3:10pm Using Human Glia and Chimeric Mice to Study the Genetics of Alzheimer's Disease

**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*

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<b>3:30pm - 3:50pm</b>	The Benefits of Studying Eyes and Brains to Uncover Common Mechanisms of Neurodegenerative Diseases	<b>Gareth Howell, PhD</b> <i>The Jackson Laboratory</i>
<b>3:50pm - 4:10pm</b>	Improving the Rigor, Reproducibility and Predictive Validity of Preclinical Research for Alzheimer's Disease: Alzheimer's Disease Preclinical Efficacy Testing Database (AlzPED)	<b>Jaya Viswanathan, PhD</b> <i>National Institute on Aging</i>
<b>4:10pm - 4:40pm</b>	Group Discussion	
<b>4:40pm - 5:00pm</b>	BREAK	<b>Mission A Foyer</b>
<b>5:00pm - 7:00pm</b>	Mock Grant Proposal Workgroups	<b>Mission CD</b> (4 groups) <b>La Jolla</b> (1 group) <b>Pacific</b> (1 group) <b>Cabrillo Suite</b> (1 group)
<b>7:00pm - 9:00pm</b>	DINNER	<b>Beach</b> (Weather backup: Mission AB)

## ■ Friday, November 11

<b>7:30am - 8:30am</b>	BREAKFAST	<b>Mission AB</b>
<b>MORNING SESSION I: RISK FACTORS and INTERVENTIONS FOR ADRD</b>		<b>Mission CD</b>
	<b>Moderator: Cynthia Lemere, PhD</b>	
<b>8:30am - 8:50am</b>	Immunity and Inflammation in Alzheimer's Disease	<b>Malu Tansey, PhD</b> <i>University of Florida</i>
<b>8:50am - 9:10am</b>	Alzheimer's Disease in Down Syndrome	<b>Elizabeth Head, PhD</b> <i>University of California, Irvine</i>
<b>9:10am - 9:30am</b>	Vascular Contributions to Alzheimer's Disease and Implications of COVID	<b>Cheryl Wellington, PhD</b> <i>University of British Columbia, Canada</i>

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**9:30am – 9:50am** Sleep Effects on Alzheimer's Disease

**Brendan Lucey, MD**  
*Washington University in St. Louis*

**9:50am – 10:10am** Alzheimer's Prevention Initiative

**Ken Kosik, MD**  
*University of California, Santa Barbara*

**10:10am – 10:40am** Group Discussion

**10:40am – 11:00am** BREAK

**Mission A Foyer**

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

**Mission CD**

**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

**Café Patio** (weather backup: Mission AB)

**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

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**3:30pm – 4:00pm** BREAK | SCIENTIFIC REVIEW

**Mission A Foyer**

**4:00pm – 4:30pm** AWARD ANNOUNCEMENTS

**Mission CD**

**4:30pm – 5:00pm** ADJOURN | CLOSING REMARKS