### ALZHEIMER'S FAST TRACK



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

#### 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 Mission CD

Alzheimer's Fast Track

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 Mission CD

Moderator: Cynthia Lemere, PhD

8:15am – 8:35am Alzheimer's Disease and Related Dementias: Julie Schneider, MD

Clinical and Pathologic Overview Rush University

8:35am – 8:55am Rewriting the Initial Stages of Alzheimer's Lea Grinberg, MD, PhD

Disease: The Role of Neuromodulatory
Systems in Pre-Cognitive Symptoms

University of California,
San Francisco

and Disease Pathogenesis

8:55am – 9:15am Plasma Proteomics at Midlife to Keenan Walker, PhD

Estimate Alzheimer's Disease Risk National Institute on Aging

9:15am – 9:35am Spatial Biology of Atypical Alzheimer's Melissa Murray, PhD

#### ALZHEIMER'S FAST TRACK





9:35am – 10:05am Group Discussion

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

SESSION II: PROFESSIONAL SKILLS FOR SCIENTISTS

Mission CD

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 Mission CD

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

# **ALZHEIMER'S FAST TRACK**

Alzheimer's Disease

November 9-11, 2022



Brigham and Women's Hospital,

Harvard Medical School

### Thursday November 10

Thursday, November 10				
7:00am - 8:00 am	BREAKFAST	Mission AB		
MORNING SESSION Moderator: Harry Ste	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	<b>Harry Steinbusch, PhD</b> <i>Maastricht University, the Netherlands</i>		
8:20am - 8:40am	Senescent-Like Human Primary Neurons Undergo Selective Human Immune NK Cell-Mediated Clearance	<b>Julie Andersen, PhD</b> 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	<b>Li-Huei Tsai, PhD</b> <i>Massachusetts Institute of Technology</i>		
9:20am - 9:50am	Group Discussion			
9:50am - 10:00am	BREAK	Mission A Foyer		
MORNING SESSION Moderator: Frank La		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	<b>Cynthia Lemere, PhD</b> Brigham and Women's Hospital, Harvard Medical School		
10:40am - 11:00am	Alzheimer's Disease Clinical Trials	<b>Joshua Grill, PhD</b> University of California, Irvine		
11:00am - 11:20am	Sex Differences in Risk and Resilience to	Rachel Buckley, PhD		

## **ALZHEIMER'S FAST TRACK**



11:20am - 11:50am Group Discussion



The Jackson Laboratory

<b>11:50am - 12:50pm</b> LUNCH	Café Patio (weather backup: Mission AB)
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11:50am - 12:50pm	LUNCH	Cafe 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	<b>Laura Cox, PhD</b> 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	Mission CD
Moderator: Frank LaFerla, PhD	

Uncover Common Mechanisms of

Neurodegenerative Diseases

Moderator: Frank Larena, 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	<b>Joanna Jankowsky, PhD</b> <i>Baylor College of Medicine</i>
	3:30pm - 3:50pm	The Benefits of Studying Eyes and Brains to	Gareth Howell, PhD

### **ALZHEIMER'S FAST TRACK**





3:50pm - 4:10pm	Improving the Rigor, Reproducibility and Predictive Validity of Preclinical Research for Alzheimer's Disease: Alzheimer's Disease Preclinical Efficacy Testing Database (AlzPED)	<b>Jayalakshmi Viswanathan, PhD</b> <i>National Institute on Aging</i>
4:10pm - 4:40pm	Group Discussion	
4:40pm – 5:00pm	BREAK	Mission A Foyer
5:00pm – 7:00pm	Mock Grant Proposal Workgroups	Mission CD (4 groups) La Jolla (1 group) Pacific (1 group) Cabrillo Suite (1 group)
7:00pm – 9:00pm	DINNER	<b>Beach</b> (Weather backup: Mission AB)

### Friday, November 11

7:30am - 8:30am	BREAKFAST	Mission AB
MORNING SESSION I: RISK FACTORS and INTERVENTIONS FOR ADRD Moderator: Cynthia Lemere, PhD		Mission CD
8:30am – 8:50am	Targeting Soluble TNF-Dependent Chronic Inflammation to Reduce Neurodegeneration	<b>Malú Tansey, PhD</b> University of Florida
8:50am – 9:10am	Alzheimer's Disease in Down Syndrome	Elizabeth Head, PhD University of California, Irvine
9:10am – 9:30am	Vascular Contributions to Alzheimer's Disease and Implications of COVID	Cheryl Wellington, PhD University of British Columbia, Canada
9:30am – 9:50am	Sleep and Alzheimer's Disease	<b>Brendan Lucey, MD</b> Washington University in St. Louis
9:50am – 10:10am	Unquiet Genes and Their Invisible Ancestry	<b>Kenneth Kosik, MD</b> University of California, Santa Barbara

10:10am - 10:40am Group Discussion

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November 9-11, 2022

<b>10:40am – 11:00am</b> 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	
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	