6th Triennial

ALZHEIMER'S DISEASE "DATA BLITZ"

PRESENTED IN CELEBRATION OF OUR 40TH ANNIVERSARY & THE 8TH RENEWAL OF THE NIA-FUNDED SHILEY-MARCOS ALZHEIMER'S DISEASE RESEARCH CENTER AT UC SAN DIEGO

June 6, 2024
9am – 2:30pm

Altman Clinical and Translational Research Institute (ACTRI) First Floor Auditorium and Lobby

(858) 822-4800
adrc.ucsd.edu

For 40 years, the Neuroscience Community in San Diego has been a leader in basic and clinical research into the cause, effects, and treatment of Alzheimer's disease and related neurodegenerative disorders. This long and distinguished tradition has been made possible by the expertise and vision of the diverse body of neuroscientists that makes up our community, and by the collaborative spirit that characterizes their scientific endeavors.

In order to continue and enhance this tradition of cutting-edge collaborative research, the Shiley-Marcos ADRC will host a **"Data Blitz"** in which leading research scientists from UCSD, Scripps, Salk, Burnham and SDSU will give very brief presentations of their most recent and exciting findings on Alzheimer's disease, neurodegeneration, and brain aging. We hope that this event will help investigators currently working in these areas, or interested in doing so, to become familiar with the breadth and depth of research being carried out by their colleagues and to identify resources and potential collaborations that will enhance their own research efforts.

Please join us on **Thursday June 6 from 9am – 2:30pm** in the ACTRI auditorium for what we believe will be a stimulating, rapid-fire tour of the visionary research on Alzheimer's disease and related disorders that is being carried out in the San Diego Neuroscience Community.

SMADRC DATA BLITZ, JUNE 6, 2024
SCHEDULE

8:00 AM		CONTINENTAL BREAKFAST
8:30 AM		POSTER SET-UP
9:00 AM	David Salmon, PhD	Welcome & ADRC opportunities for collaboration; REC and Project solicitation
9:05 AM	Erin Sundermann, PhD	Sex Differences in the Clinical Manifestation of AD Pathology in Early-Stage Alzheimer's Disease
9:10 AM	Hector Gonzalez, PhD	Cognitive aging and impairment among diverse Latinos in the US
9:15 AM	Raeanne Moore, PhD	Identifying Digital Phenotypes of Risk for Alzheimer's Disease and Related Dementias Among Hispanics/Latinos
9:20 AM	Mark Bondi, PhD	Neuropsychological definitions of subtle cognitive decline and MCI improve prediction of progression
9:25 AM	Dalia L. Garcia, PhD, ABD	Sprinting in Two Languages: Leveraging Spanish-English bilinguals to develop new tasks that are sensitive to AD biomarkers
9:30 AM	Atul Malhotra, MD	Sleep issues, memory consolidation and cognitive impairment
9:35 AM		10-MINUTE BREAK AND TIME CATCH-UP
9:45 AM	Doug Galasko, MD	Fluid biomarkers for ADRD – progress and opportunitiesrs
9:50 AM	Mridu Kapur, PhD	tRNAs as modifiers of neurological disease
9:55 AM	Hiruy Meharena, PhD	TBD
10:00 AM	Don Cleveland, PhD	Reactivating neurogenesis in the aging brain
10:05 AM	Kim Dore, PhD	Increasing palmitoylation of synaptic proteins as a therapeutic strategy for AD
10:10 AM	Jerome Mertens, PhD	Direct neuronal reprogramming to study Alzheimer's disease in the context of cellular aging
10:15 AM		10-MINUTE BREAK AND TIME CATCH-UP
10:25 AM	Courtney Glavis-Bloom, PhD	The common marmoset as a model for age-related cognitive impairment
10:30 AM	Eric Granholm, PhD	Pupillary responses as a biomarker for risk of AD
10:35 AM	Katherine Bangen, PhD*	Arterial stiffening interacts with AD biomarker status to predict cognitive decline in older adults without dementia
10:40 AM	Carrie McDonald, PhD	BRain Aging and Cognition in Epilepsy (BRACE)
10:45 AM	Diane Jacobs, PhD	Visual Sensory Binding: A Novel Behavioral Marker of Preclinical AD
10:50 AM	Jingjing Zou, PhD	Novel Functional Data Analysis of Eye-Tracking (ET) Markers in Preclinical AD
10:55 AM		10-MINUTE BREAK AND TIME CATCH-UP

*ADRC Research Education Component Scholar

SMADRC DATA BLITZ, JUNE 6, 2024: SCHEDULE

Time	Speaker	Title
11:05 AM	*Howard Feldman, MD*	**Topline results from recent ADCS trails**
11:10 AM	*Vivian Hook, PhD*	**Alzheimer's drug target discovery via signaling mechanisms to repurposing of FDA drugs**
11:15 AM	*Mark Tuszynski, MD, PhD*	**A Clinical Trial of AAV2-BDNF Gene Therapy in Alzheimer's Disease**
11:20 AM	*Aksinya Derevyanko, PhD*	**Delivery of astrocyte secreted Chrdl1 to target synapse loss in Alzheimer's disease**
11:25 AM	*Subhojit Roy, PhD*	**Therapeutic Gene Editing in Alzheimer's Disease**
11:30 AM	*Lucas Patel*	**AD Microbiome**
11:35 AM		**LUNCH AND POSTERS**
12:40 PM	*David Coughlin, MD**	**Tau seeding**
12:45 PM	*Xu Chen, PhD**	**Lipid droplets in tauopathy brain**
12:50 PM	*Tomohiro Nakamura, PhD*	**Redox biomarkers for ADRD**
12:55 PM	*Joy Zhou, PhD*	**Uncovering Spatial Molecular Signatures of Microglia Phenotypes in Alzheimer's Disease**
1:00 PM	*Anne Bang, PhD*	**Modeling long term potentiation using iPSC neurons of multi-electrode arrays**
1:05 PM	*Cristina Sigurdson, DVM, PhD*	**PUnraveling the signaling pathways to synaptic loss and neurodegeneration in prion disease**
1:10 PM		**10-MINUTE BREAK AND TIME CATCH-UP**
1:20 PM	*Aladdin Shadyab, PhD*	**Accelerated epigenetic aging as a predictor of cognitive decline**
1:25 PM	*Paula Desplats, PhD*	**Time's Rhythm: Harnessing Circadian Modulation to unlocking Alzheimer's**
1:30 PM	*Nicole Coufal, MD, PhD*	**Epigenetic regulation of microglial biology in AD**
1:35 PM	*Nathen Zemke, PhD*	**Single cell epigenomics in aging human hippocampus**
1:40 PM	*Seoyeon Lee, PhD*	**Single-Cell Multiomic Analysis of AD-Associated Gene Regulatory Programs in the 5xFAD Mouse Hippocampus**
1:45 PM	*Gene Yeo, MD, PhD*	**TBD**
1:50 PM		**10-MINUTE BREAK AND TIME CATCH-UP**
2:00 PM	*Kelsey Thomas, PhD**	**Alpha-synuclein and amyloid biomarker groups in older adults**
2:05 PM	*Matt Panizzon, PhD*	**Age at menopause and Alzheimer's disease risk**
2:10 PM	*Melody K Schiaffino, PhD, MPH*	**ADRD and cancer**
2:15 PM	*Carl Hoh, MD*	**AD SPECT/CT imaging project**
2:20 PM	*Emilie Reas, PhD**	**Neuroimaging blood-brain barrier permeability in early Alzheimer's disease**
2:25 PM	*Steven Edland, PhD*	**Is neocortical CAA an etiologically relevant Alzheimer's disease lesion?**

* ADRC Research Education Component Scholar