Shiley-Marcos Alzheimer’s Disease Research Center
Open House
Update, Overview, and Future Directions

James Brewer, M.D., Ph.D.
Director, Shiley-Marcos Alzheimer’s Disease Research Center
Professor and Chair, Department of Neurosciences
Director, ADCS Imaging Core
University of California, San Diego
In Memoriam:
Our Beloved, Passionate, and Dedicated
Mary Sundsmo
(June 12, 1948 - March 9, 2019)

Celebration of Life
Sunday | April 14, 2019 | 1:00PM
Hilton Torrey Pines
Fairway Garden
10950 North Torrey Pines Road
La Jolla, CA 92037
Our ADRC Team
Thank YOU!
Our Dedicated Volunteers

• You help us advance the fight against Alzheimer’s and related dementias
• You sacrifice your comfort and time
• You stick with us through thick and thin
• We couldn’t do this without you!
UCSD ADRC Background

- Led in the establishment of Alzheimer’s Disease Centers in U.S.
- Among highest funded of all centers
- Housed within 2nd highest NIH-funded Neurosciences department in nation
- A top provider of shared samples
- Leading cerebrospinal fluid research
- >93% of volunteers provide critical brain donation to advance research
2019 Highlights

• Newly funded award from the National Institute on Aging (>$15.5M!)
• Newly funded award for training a broader and more diverse workforce against Alzheimer’s
• Outstanding New Faculty

Sarah Banks, PhD, ABPP-CN
Gabriel C. Léger, MD CM, FRCPC
Hector González, PhD
New Cores

• Biomarker Core

• Latino Core

• Induced Pluripotent Stem Cell (iPSC) Core
New Cores

• Biomarker Core
  – Recognizing the new importance of biomarkers in characterizing Alzheimer’s disease, the Alzheimer’s Disease Centers Program is funding Biomarker Cores
  – UCSD’s Biomarker Core will enhance the analysis of markers
    • Plasma, CSF, Imaging (MRI, Amyloid PET, Tau PET), Genetics
New Cores

• Latino Core
  – Research in Alzheimer’s suffers from a lack of diversity and lower participation in studies from underrepresented groups such as Latinos

  – To enhance recruitment and to ensure that culturally appropriate procedures are employed throughout our research on diverse subjects, particularly Latinos, we will institute a Latino Core

  – A satellite clinic in Chula Vista is starting, so that our center will be more convenient to participants from South Bay communities.
New Cores

• iPSC Core
  – Alzheimer’s disease is a disease of humans, and molecular studies will benefit from the availability of models of the disease in human neurons grown from a dish.
  
  – Allows study of cells taken from healthy participants and affected participants.

  – CRISPR-Cas9 editing of genome to explore effects on disease processes.

  – See talk by Larry Goldstein…
New Partnerships
Toward an even more vibrant environment

- Gary and Mary West Senior Emergency Care Unit
- Innovative Multidisciplinary Memory Care
- Support Groups
- Clinical Trials
Developing a New Clinical Hub for Alzheimer’s Disease at UC San Diego Health

- Patient-centered
- Multidisciplinary
- Access-focused
- Exemplary care

- Vascular health
- Diet
- Exercise
- Cognitive training

- Outreach and provision for all, notably Latino and Asian groups

- Research-Clinic Interface
- Community-Clinic Interface
- Clinical Trials
- Investigator Led Research
- Sex-Specific Research
- Precision and Prevention
- Genetics
- Comorbidities
- Polypharmacy
- Satellite Offices and Telemedicine
- Educating Community Providers and Members
- Teaming Up with Primary Care
- Care for the Caregiver
- Minority Focus

- Team Up with Primary Care
Shiley-Marcos ADRC and You

We couldn’t do it without you!!

• Tell your friends
• Keep in touch
• Stay involved
• Join research studies
• Let’s fight this disease!