# MIND MATTERS

Commemorating 30 Years of Alzheimer's Disease Research at UCI

Fall 2015

## HEALTHY BRAIN AGING: CONSIDERING THE POSSIBILITIES



DR. ANDREA TENNER WELCOMED CONFERENCE ATTENDEES

On October 2, UCI MIND and the Alzheimer's Association, Orange County Chapter (AAOC), hosted the 26th Annual Southern California Alzheimer's Disease Research Conference, *Healthy Brain Aging: Considering the Possibilities*, at the Irvine Marriott Hotel. Over 400 professionals, caregivers, and community members gathered for this one-day educational event focused on current research in age-related brain changes and lifestyle factors that may support healthy brain aging. After welcoming introductions by UCI MIND Director Dr. Andrea Tenner and AAOC President Jim McAleer, Dr. Maria Carillo, Chief Science Officer of the Alzheimer's Association, set the stage with an

overview of modifiable risk factors for cognitive decline and dementia, including physical activity, diet, cardiovascular health, cognitive exercise, and sleep. Dr. Alon Avidan, Professor of Neurology at UCLA and

Director of the UCLA Sleep Disorders Center, delved further into the topic of sleep and dementia, updating the audience on the risks for dementia associated with some sleep disorders. Dr. Jessica Langbaum of the Banner Alzheimer's Institute (BAI) then presented her research on cognitive training interventions, concluding that formal instruction and strategies may delay cognitive decline in healthy older adults. In addition to her role as Project Scientist, Dr. Langbaum serves as Associate Director of BAI's Alzheimer's Prevention Initiative, an international collaborative of scientists, physicians, industry and regulatory agencies focused on prevention research.



DR. JOSHUA GRILL DISCUSSED



CONFERENCE ATTENDEES PARTICIPATED IN DR. KELLI SHARP'S INTERACTIVE SESSION

Opening the afternoon session, Dr. Joshua Grill, Director of Education at UCI MIND, engaged the audience with a discussion on ethical considerations for Alzheimer's disease prevention trials. Dr. Grill, who also serves as Associate Director of UCI MIND's Alzheimer's Disease Research Center, is an active investigator in the first clinical trial in "preclinical Alzheimer's disease," the Anti-Amyloid treatment in Asymptomatic Alzheimer's disease study. Dr. Daniel Nation, Assistant Professor of Psychology at USC, followed with a session on the role of vascular aging in cognitive decline and Alzheimer's disease. Dr. Nation's fascinating work has examined the relationship between pulse pressure and

biomarkers of Alzheimer's disease. Present to share his research and expertise on the topic of exercise and cognitive health was

Dr. Carl Cotman, founding Director of UCI MIND. In his lecture, Dr. Cotman emphasized the importance of aerobic exercise in promoting healthy cognition and brain aging. To conclude the conference, Dr. Kelli Sharp, Assistant Professor in the Department of Dance at UC Irvine, examined the healing art of dance in neurorehabilitation. Her presentation included interactive components of dance and movement that brought the audience to their feet, the perfect ending to an education-filled day.



CONFERENCE ATTENDEES VISITED EXHIBITS DURING COFFEE BREAKS THROUGHOUT THE DAY

The Conference was a huge success thanks to our speakers, attendees, staff, volunteers, and especially our 37 sponsors from local organizations who helped make the event possible. Save the date for our 27th Annual Southern California Alzheimer's Disease Research Conference on September 30, 2016, at the Irvine Marriott Hotel!

## From the Director



Dear Friends,

In the previous issue of this newsletter, we highlighted some of the recent events that contribute to this being, perhaps, the most exciting time in the history of UCI MIND. Notable were the arrival of new Vice Chancellor of Health Affairs and Dean of the School of Medicine, Dr. Howard Federoff, and the successful renewal of the critical Alzheimer's Disease Research Center grant by Dean Frank LaFerla and the other members of the ADRC. This issue is largely a continuation of that theme, again meant to let you – our extended family, friends, and partners – know just how promising the future is for UCI MIND.

Great things are happening at UCI MIND in general (see below), but major news of success in our neuroscience research comes with wonderful frequency. Our senior faculty such as Drs. Carl Cotman (page 3) and Leslie Thompson (page 6) continue to receive grant funding, awards, and other distinctions. Even more exciting than the continued success of our senior scientists, however, is the crop of energetic and innovative scientists who are new to UCI or to Alzheimer's disease research and are poised to take the field to new heights and eventual improved treatments, preventions, and cures for all neurodegenerative diseases. These brilliant faculty are described on pages 4 and 5.

As always, all of us at UCI MIND need your help to achieve our goal of a world where memories last a lifetime. With increased funding, the creative and talented scientists described on pages 4 and 5 can push the boundaries of current understanding of disease mechanisms, test novel ideas, and answer scientific questions more rapidly. Roughly \$0.80 of every donated dollar goes directly into the laboratory or research clinic, including the laboratories and clinics of these fantastically promising young scientists, with much of the rest devoted to community education.

In this issue, we also offer our thanks to the incredible individuals and families who have made donations to UCI MIND over the past year (pages 9-11). We cannot adequately convey the depths of our gratitude for gifts to support research at UCI MIND. These gifts give us the opportunity to accelerate our efforts to make a difference in the world through science.

Finally, as the holiday season approaches, we wish you and your families all the best. We hope to see you all at upcoming UCI MIND Community Events or the UCI MIND website (mind.uci.edu). Warmest regards.

#### PROVOST VISIT TO UCI MIND

UC Irvine Provost and Executive Vice Chancellor, Enrique J. Lavernia, Ph.D., paid a special visit to UCI MIND this fall. During his visit, the Provost heard an overview of the research endeavors at UCI MIND and received a behind-the-scenes tour of the facilities on UC Irvine's campus from Institute Director, Dr. Andrea Tenner, and Dean of the Ayala School of Biological Sciences, Dr. Frank LaFerla. Pictured here with Dr. Lavernia, Chief Administrative Officer, Andrea Wasserman, concluded the tour with a human brain demonstration. Dr. Lavernia returned to UC Irvine on July 1, 2015, after serving as Dean of the UC Davis College of Engineering since 2002. Prior to UC Davis, Dr. Lavernia was Chair and Chancellor's Professor



in the Department of Chemical Engineering and Materials Science at UC Irvine. In his new role, Dr. Lavernia oversees 12 schools, nearly 3,000 faculty, and 192 degree programs as the Chief Academic and Operating Officer. UCI MIND welcomes Dr. Lavernia back to the UC Irvine family and looks forward to future interactions with the Provost.

#### **UC IRVINE NATIONAL COLLEGE RANKINGS**

UC Irvine has a lot to celebrate as it climbs national rankings in its 50th year. According to U.S. News & World Report, UC Irvine has risen from #11 to #9 (tie with UC San Diego) among



the highest-ranked public colleges and universities in the country. Another proud accomplishment is UC Irvine's continued accessibility to students from all backgrounds. The New York Times named UC



Irvine the #1 college in the country "doing the most for low-income students." Lastly, annual rankings of sustainable universities by the *Sierra Club* placed UC Irvine at the top spot as the greenest school in the United States for the second year in a row. Go Anteaters!

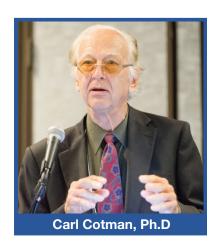


## IN THE NEWS

Exciting achievements and updates from the Institute for Memory Impairments and Neurological Disorders

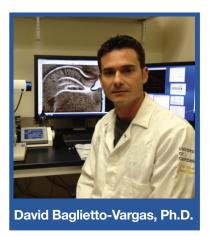
#### DR. CARL COTMAN FEATURED ON ABC 7 EYEWITNESS NEWS

Dr. Carl Cotman, founding Director of UCI MIND and Professor of Neurology and Neurobiology and Behavior, was featured on ABC 7 Eyewitness News in early October. The report highlighted Dr. Cotman's presentation at the 26th Annual Alzheimer's Disease Research Conference, where he spoke to the impact of exercise on cognitive function and brain aging. According to Dr. Cotman, all seniors should be exercising three to four times a week to promote healthy brain aging, and aerobic exercise is especially important. Although he cannot definitively say whether exercise can reduce cognitive decline, Dr. Cotman is hopeful. Dr. Cotman is leading an upcoming national clinical trial to examine whether exercise can slow cognitive changes in older persons. If you are interested in volunteering to participate in this upcoming study, please contact Megan Witbracht, Ph.D., at (949) 824-3249 or mwitbrac@uci.edu.



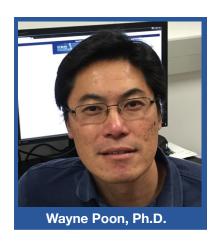
#### DR. DAVID BAGLIETTO-VARGAS AWARDED ALZHEIMER'S ASSOCIATION GRANT

Congratulations to Assistant Researcher, Dr. David Baglietto-Vargas, who was recently awarded the Alzheimer's Association New Investigator Research Grant (NIRG), which aims to support the research efforts of promising, newly independent investigators. Dr. Baglietto-Vargas joined UCI MIND in 2009 after receiving his Ph.D. from the University of Malaga in Spain where he worked to characterize transgenic animal models to identify new therapeutic targets for Alzheimer's disease. This \$100,000, two-year grant will allow Dr. Baglietto-Vargas to further investigate the molecular mechanisms by which Alzheimer's disease causes memory and cognitive impairments. Specifically, this project aims to elucidate how synapses are affected in Alzheimer's disease. Dr. Baglietto-Vargas, in collaboration with UCI MIND's Drs. Frank LaFerla and Carl Cotman, will utilize novel and state-of-the-art physiological, imaging, biochemical, and animal model approaches to achieve his project. Dr. Baglietto-Vargas hopes that his investigation of synaptic degeneration, one of the earliest features of Alzheimer's disease pathology, will eventually reveal potential therapeutic approaches to help mitigate cognitive decline.



#### DR. WAYNE POON AWARDED ICTS PILOT GRANT

Research Associate Professor and Tissue Repository Director, Dr. Wayne W. Poon, was awarded a \$25,000 grant from the UC Irvine Institute for Clinical and Translational Science (ICTS) this fall, which will be complemented with a \$7,500 award from UCI MIND. The ICTS pilot award funds projects aimed at transitioning laboratory, clinical, or population studies into clinical applications. Dr. Poon plans to continue his work examining if endophenotypes associated with genetic risk factors can serve as diagnostic biomarkers for Alzheimer's disease subtypes. This project will directly target a personalized medicine approach to treating Alzheimer's disease, using an individual's genetic information to optimize treatment decisions. Congratulations to Dr. Poon on his award that will help advance the field of Alzheimer's research!



UCI MOND

## Brilliant Future: New & Noteworthy Faculty



María M. Corrada, Sc.M., Sc.D., Associate Professor of Neurology and Epidemiology

After finishing my doctoral degree in Epidemiology in 2003, I was recruited to UCI by Dr. Claudia Kawas to establish an investigation of the oldest-old, people aged 90 and older. The 90+ Study is now one of the largest epidemiological studies of aging and dementia in this ever-growing age group. We have found that the risk of dementia continues to increase exponentially doubling every five years of age and does not decrease as previously believed. Our work is highlighting that age matters - risk factors, causes, and types of dementia at younger ages are different from those in the oldest-old. With the support of the UCI ADRC we are also learning about the brain pathologies that contribute to dementia at very advanced ages. With more and more people living to very old age, these unique participants are helping us learn the secrets to aging successfully.



Joshua Grill, Ph.D., Associate Professor of Psychiatry and Human Behavior

I completed my undergraduate training at Miami University in Oxford, OH, where I began my work in neuroscience in the place cell laboratory of Dr. Phil Best. From there, I did my doctoral work with Dr. David Riddle at Wake Forest University School of Medicine, studying neurotrophic factor regulation of aging brain anatomy. After a brief stint in industry, Dr. Jeffery Cummings recruited me to join the UCLA Alzheimer's Disease Research Center (ADRC) in 2007. There, I transitioned my research career into clinical studies, specifically clinical trials. I was thrilled to join UCI MIND on March 1, 2015, moving with my wife and our young daughter to Orange County. Here, I will continue my work, which focuses on the efficient and ethical conduct of clinical trials in Alzheimer's disease (AD), including trials in patients with dementia and prodromal AD, as well as AD prevention trials. I will also continue to serve as a member of the Steering Committee of the Alzheimer's Disease Cooperative Study (ADCS), a national AD clinical trial network, and the Internal Ethics Committee for this group. Here at UCI, I will serve as Director of Education for UCI MIND and lead the Outreach, Recruitment and Education Core of the UCI ADRC, a position I similarly held for the duration of my time at UCLA. I'm also honored to have been invited by Dr. Frank LaFerla to serve as Associate Director of the UCI ADRC, assisting him in quiding the future of this esteemed group of outstanding and productive scientists.



Edwin S. Monuki, M.D., Ph.D., Neuropathology Core Co-Director and Warren L. Bostick Chair of Pathology & Laboratory Medicine

A native of Southern California, I received my BS degree from MIT, then my M.D. and Ph.D. degrees from UC San Diego. I then completed my pathology and neuropathology training in the Harvard system before joining the UC Irvine faculty in 2001. A developmental neurobiologist and neuropathologist by training, I led my lab's studies on the developing brain, which culminated in the invention of a stem cell-based technology for making choroid plexus epithelial cells (CPECs; Watanabe et al., J Neurosci 2012; U.S. patent 8,748,176). CPECs are the cells that produce cerebrospinal fluid (CSF), the fluid that bathes the brain and spinal cord, which provides new and unique opportunities for studying and treating Alzheimer disease (AD). In 2013, I joined the ADRC team, and currently serve as Co-Director of its Neuropathology Core. It has been my honor to serve our ADRC and to help facilitate the ground-breaking AD research that occurs every day at UCI and throughout our nation.

## Brilliant Future: New & Noteworthy Faculty



Aimee Pierce, M.D., Assistant Clinical Professor of Neurology and Medical Director, UCI MIND Memory Assessment and Research Center

I arrived at UCI in 2011 and joined the Alzheimer's Disease Research Center Clinical Core. As a geriatric neurologist who specializes in the diagnosis and treatment of AD and other forms of dementia, initially my focus was on performing annual neurologic assessments for our research participants. However, given the focus at UCI on studying biomarkers for AD prediction and diagnosis, I quickly began research utilizing cerebrospinal fluid and brain PET imaging to identify the pathologic hallmarks of AD, "plaques and tangles," in living humans. I am also working closely with the Induced Pluripotent Stem Cell Core to collect blood and fibroblasts (from skin punch biopsies) from living humans to generate stem cells for the study of AD. Most important to me is identifying new interventions and medications for the prevention and treatment of AD, and I have led three clinical trials thus far at UCI, with more planned for 2015-16.



Kim Green, Ph.D., Assistant Professor of Neurobiology and Behavior

I grew up in England and completed my Ph.D. in cellular physiology at the University of Leeds in 2002 before moving to UCI to research the pathogenesis of Alzheimer's disease under the mentorship of Professor Frank LaFerla. Together, we described how various lifestyle factors could influence the development of Alzheimer's disease (such as stress, diet, mental activity) as well as discovered several novel therapies that could halt or reverse the progression of the disease in mice (such as nicotinamide, memantine, ST101, and minocycline). In 2011 I started my own laboratory and decided to focus on the immune cells of the brain known as microglia. These cells stand as guardians of our brain, protecting us from invading pathogens in much the same way that white blood cells do in the rest of the body. However, during Alzheimer's disease, and all related neurodegenerative diseases as well as brain injuries, these microglia become overexcited and start attacking the brain itself, which contributes to the damage seen in the Alzheimer's disease brain. Thus, finding ways to manipulate these cells and stop their attack of the brain is critical. To that end, my lab has discovered a class of drugs that can eliminate all of these microglia from the brain, and we are studying the consequences of having a brain with no microglia, and how we can apply this to Alzheimer's disease (and other brain disorders) to learn the precise role these cells play in the disease process, and as a potential therapeutic.



Michael A. Yassa, Ph.D., Assistant Professor of Neurobiology and Behavior

I am interested in how the brain learns and retrieves information. In particular, I investigate long-term memory mechanisms and how these mechanisms are altered in aging and neuropsychiatric disease. Trained as a neurobiologist and experimental psychologist, I examine neural mechanisms of memory from a network perspective using advanced neuroimaging and neuropsychological techniques. The central questions in my research are: (1) What are the neural mechanisms that support learning and memory? (2) How are memory circuits and pathways altered in the course of aging, dementia, and neuropsychiatric disorders and how do these changes inform our understanding of memory function? and (3) How can we identify early preclinical biomarkers that can distinguish between normal and pathological age-related changes (e.g. Alzheimer's disease) so that we can better design diagnostic and therapeutic tools. My lab also develops and refines neuroimaging tools to explore the brain's architecture at very fine levels of detail, for example using high-resolution functional MRI or ultrahigh-resolution MRI.

UCI M OND www.mind.uci.edu

## UCI MOND WELCOMES NEW FACULTY MEMBERS!

#### **DIANE O'DOWD, PH.D**



Dr. Diane O'Dowd and laboratory have studied the activity of living neurons cutting using edge electrophysiology and molecular aenetics techniques for more than 25 years UCI. She is currently working on generating neurons from iPS cells

to be able to assess functional differences in those derived from patients with CNS disorders. Dr. O'Dowd is also a renowned teacher and innovator in science education. She holds a prestigious Howard Hughes Medical Institute professorship and is Professor of Development and Cell Biology in the School of Biological Sciences and Professor of Anatomy and Neurobiology in the School of Medicine. She also currently serves as Vice Provost of Academic Personnel.

#### **CHARLES LIMOLI, PH.D**



Dr. Charles Limoli is a Professor of Radiation Oncology the School of Medicine UC at Irvine whose broad interests include oxidative stress. neurogenesis, stem cells, transplantation, chemobrain, and cognition. Dr. Limoli's

research program recently garnered major headlines nationwide when his studies revealed that exposing mice to charged particles approximating galactic cosmic rays harmed brain anatomy (specifically connections between brain cells) and that this resulted in impaired cognition. Dr. Limoli's work to investigate how stem cell therapy might alleviate the symptoms of chemobrain for chemotherapy patients has also recently drawn headlines and may be applicable to other cognitive disorders as well.



#### DR. LESLIE THOMPSON'S DISTIGUISHED LECTURE

On October 13, UCI MIND faculty member Dr. Leslie Thompson delivered the prestigious Ayala School of Biological Sciences Dean's Distinguished Lecture to a packed house at the Crystal Cove Auditorium of the UCI Student Center. Dr. Thompson's lecture, "Huntington's disease: A race against time," detailed her remarkable research career, which includes having been part of the team that initially identified the mutant *Huntingtin* gene by working closely with a large cohort of people afflicted with the disease in Venezuela.

More recently, Dr. Thompson has been awarded several million dollars in grant funding to study the potential of stem cell therapies for Huntington's disease. Through it all, as she described in her lecture, she has been driven by an overwhelming desire to help the incredible families afflicted with this genetic disorder, many of whom were in the more than 300 person audience at this important event. UCI MIND congratulates Dr. Thompson on her outstanding achievements in research and her selection for this esteemed and well-deserved honor.

In addition to being a member of UCI MIND, Dr. Thompson is a Professor of Neurobiology and Behavior within the Ayala School of Biological Sciences and of Psychiatry and Human Behavior and Medicinal Chemistry within the School of Medicine.

## 2015 Donor Highlight: Virginia Naeve



Virginia Naeve and her husband Bob chaired the 2015 UCI MIND Time of Your Life Gala. This outgoing couple with a delightful sense of humor have been married for 30 years and have two grown children, Andrew and Allison. They are active and engaged members of the community, who are highly supportive of UCI MIND and Alzheimer's research. We recently interviewed Virginia to better understand how she came to be such a passionate and committed supporter.

How did you first become acquainted with UCI MIND? Quite a few years ago I saw a flyer from UCI MIND about lectures on Alzheimer's disease. They were called the Family Education Series. I went by myself to a lecture called "Reducing your Risk for Alzheimer's Disease: Lifestyle Changes and More." Dr. Malcolm Dick and his wife Dr. Cordula Dick-Muehlke spoke so beautifully that evening that I was hooked! UCI MIND

also holds "Ask the Doc" forums which give audience members a chance to ask questions. I just kept going to the lectures to learn as much as I could. All of the staff and researchers were always very warm and welcoming.

How were you and your family introduced to Alzheimer's disease? My family didn't know a thing about Alzheimer's and our introduction to it came as a complete shock. Both Mom and Dad were very happy, active, and seemed to be in good health. In 2005, Dad passed away very unexpectedly from a heart attack. Mom went upside down, and we were noticing that she was repeating things, forgetting names and putting things away in strange places. Everyone thought that Mom was grieving severely. None of us knew anything about Alzheimer's disease. We just kept thinking her behavior was because she was in such pain from losing Dad. Eventually, my family along with my two brothers and their families realized that something was really wrong.

You have created a blog. What are your reasons for writing your blog? Who is your audience? How can our readers access your writings? Mom suffered with Alzheimer's for ten years. About five years before she passed away in June of 2013, I started keeping a notebook with bits of information about her disease process and our experiences. I just kept thinking that if I could find a way to help someone else who was about to go through similar experiences, I would do it. I had no idea at that point that I would eventually design a website and become a blogger, but I knew I had to do something. I also knew Mom would want me to help others. My audience is a list of several hundred people, who either signed up on my website to receive my blogs, or they are a friend of mine and I'm forcing them to receive my blogs! They are sent out via email. Some subscribers are dealing with caregiving, some are just starting to wonder what is ahead for them, and others just want to know a little about this disease but have no experience with it. What I'd like to do is reach more people who are as lost and clueless as I was, and who might find my website and blogs helpful. I am currently contacting more Alzheimer's organizations, groups and websites to see if they will carry my blogs and a link to my website. My website has a lot of information, resources and good videos about Alzheimer's disease and is called A New Path for Mom. It's found at www.anewpathformom.com and my blogs are found there.

Why do you support research at UCI MIND? Sometimes when you donate to an organization, you really don't know where your money is going. That isn't true with UCI MIND. My husband Bob and I appreciate knowing

that the majority of funds donated are going directly to research. Not only are the scientists at UCI MIND brilliant and recognized world-wide for their accomplishments, they are approachable and willing to take the time to share information with the community. When the researchers give a lecture, I try to learn as much as I can about their progress. I appreciate that many of their presentations are targeted for general audiences. I am forever grateful to those who dedicate their lives to finding a prevention or cure for Alzheimer's. I will always support the work that is done at UCI MIND. My hope and vision is to stay the course with my website and blogs until one day I can change my Home Page to one of CONGRATULATIONS to those who have helped rid the world of Alzheimer's disease.

UCI MIND is grateful for Virginia and Bob Naeve's ongoing support of research, their leadership role and Virginia's eagerness to share information with others.

#### **Make a Donation Online!**

Every contribution helps support Alzheimer's disease research at UCI MIND. Your gift of any amount is important. It all adds up in the fight to end Alzheimer's disease.

You can make a donation online. Go to: http://mind.uci.edu/giving/ online-donations/

Help make a difference today.

## 6th Annual Time of Your Life Gala



TIME OF YOUR LIFE GALA 2015



UCI MIND ALUMNI HONOREE TOM CHOU WITH WIFE, DANA

of-this-world fund-raising event to celebrate a world of tomorrow, where memories will last a lifetime. The ultramodern event featured futuristic tables, lighting, sounds, music, and unique entertainment created by Linda Young, EliteOC Productions. Gala Co-Chairs, Bob and Virginia Naeve welcomed guests and presented special recognition to honorees UCI Alumnus Supporting Alzheimer's Research, Tom Chou, MS, BA, UC Irvine 1992, and UCI MIND Community Leadership Honoree, Loren Shook, President/CEO of Silverado. Another highlight of the evening was the remarkable

presentation by Bill Edwards and his family of a donation

On Saturday, May 16, 2015, UCI MIND held an out-

in memory of their wife, mother and grandmother, Nancy Imlay Edwards. Their gift, as well as many others from 280 guests helped raise a net of \$200,000, which will immediately and directly support Alzheimer's research at UCI MIND. We thank our sponsors and underwriters acknowledged below.





DIRECTOR, DR. ANDREA TENNER



DRS. ROSALYN LAUDATI, JAMES PICK, & LORNA CARLIN



WILLIAM EDWARDS WITH DAUGHTERS HEATHER AND AMY, **GRANDDAUGHTER SOFIA, & DEAN FRANK LAFERLA** 

#### Title Sponsor

Karen and Kent Jordan

#### **Platinum Sponsor** The Crean Foundation

#### **Gold Sponsors** Silverado

Alzheimer's Association, OC Chapter HCP, Inc. Welltower, Inc., previously Health Care REIT, Inc. Monster Loans Walnut Village Summer House Virginia and Robert Naeve Barbara and Robert Kleist Sperry Equities – Sperry

#### Commercial Silver Sponsors

Irvine Cottages Assured In Home Care Nancy Imlay Edwards Foundation Nobbs Family Foundation Wendy and Larry Tenebaum

#### **Bronze Sponsors**

Wells Fargo First Foundation Bank Caring Companions at Home Beaumont Hahn Family

#### Wine and Cheese Kickoff Party at the Home of Virginia and Bob Naeve -

**Wine Donors** Barbara Alder Linda Andersen Dr. Matt Blurton-Jones Dr. Szofia Bullain Mr. and Mrs. Tom Chou Nancy Jo Clark
Dr. Pinar Coskun
James R. Crawford
Dr. and Mrs. David Cribbs Harry Crowell Drs. Brian Cummings and Aileen Anderson Mr. and Mrs. Anthony DiGiorgio Lynda Everman Mr. and Mrs. Geoff Gray Dr. Josh Grill

#### **Wine Donors Continued**

Avram Grossman Mr. and Mrs. Bruce Hallett Drs. Ronnie Hanecak and Bert Semler Dr. and Mrs. Forrest Harding Kathy Haze Dr. Neal Hermanowicz Wayne L. Jones Lauren Kear Dr. James B. Pick and Dr. Rosalyn Laudati Mr. and Mrs. Jim Lingle Roger and Lucy Lisabeth Diane Mondini Mr. and Mrs. Bob Naeve Mr. and Mrs. Bill Naeve Christine M. Ofiesh Suzan Paek Mr. and Mrs. Todd Palmaer Cynthia Paris Dr. Wayne Poon Zach Reagh and Sarah Morse Beverly Redfem Jodi Řobertson

#### **Wine Donors Continued**

Ametta Robinson Mr. and Mrs. Jeff Rovner Sandy Sage Linda Scheck Debra Schueler Mr. and Mrs. David Silver-Westnick Shirley Sirivong Marcelo Soares Kelley Summers Gabriella Sweidan Ph.D. Dr. Andrea Tenner Dr. Leslie Thompson and Mr. Mike Wanamaker Beverly Vigil and Nancy Rucker Dr. Tonia Vojtkofsky Andrea Wasserman Adrian Windsor and Ronald Knapp Marilyn Wotring Dr. and Mrs. Mike Yassa Sandy Zimmer

#### Silent Auction Donors

Aliso Viejo Country Club Bradford Photography Caring Companions at Home and Childcare Tom and Dana Chou Corona del Mar Animal Hospital Jacqueline DuPont, Irvine Cottages-Assured In Home Care Jose Eber Salon Shari Alec Goldberg Vicki Hines Lynda Everman Drs. Dan Flynn and Emily Vogler Crean Flynn Mother's Market and Kitchen Sharon Lawson, SL Designs Sonash Hair Connection South Coast Plaza South Coast Repertory Theater Sunrise Senior Living Vintage Senior Living Marilyn Wotring

Sandy Zimmer

## **DONATIONS** from September 2014 to September 2015

#### Honoraria

In Honor of Mrs. Bellany Joan Beaumont In Memory of Mrs. Nancy Imlay

Ms. Catherine Beaumont

In Honor of Carl W. Cotman. Ph.D.

Mr. & Mrs. Hsin Y. Liu Mr. and Mrs. Ed Scheck

In Honor of Jacqueline M. DuPont, Ph.D. and Mr. Marc W. Carlson

Ms. Catherine Beaumont

In Honor of Ms. Mary Knowlton

Mr. Drew Chesen

In Honor of Bruce C. Murray, Ph.D.

Ms. Maureen T. Hausen

In Honor of Kay Patel

Tarsadia Foundation

In Honor of Mr. Loren B. Shook

Ms. Michelle Denise Egerer

In Honor of Mr. Marcelo P. Soares and Mr. Carlo L. Reyes

Donald L. Hansen, Pharm.D.

In Honor of Ms. Lena Wilson

Mr. Mark J. Wilson

#### **Memorials**

In Memory of Mrs. Betty Jane Abrams

Dr. and Mrs. Marvin E. Abrams

In Memory of Mrs. Mary Jaurequi Bernal

Mrs. Becky Fuentes

In Memory of Ms. Karen Margaret Jacobson Boylen

Mr. & Mrs. David J. Russell

In Memory of Ms. Christina Mary Camuglia

Mr. and Mrs. Carl B. Abbattista Mr. and Mrs. Lawrence A. Balestra

Mr. Ronnie Rowan

In Memory of Mr. George Carlin

Lorna Seema Carlin, MD

In Memory of Mrs. Doris H. Chou

Mr. Scott Kuo-his Huang Mr. Robert Kenneth Luganas Mr and Mrs. Roy J. Chang

In Memory of Mrs. Vivian V. Crawford

Mr. James R. Crawford

In Memory of Mr. and Mrs. William W. Drewry, Jr.

Mr. and Mrs. Richard W. Rockwell

In Memory of Mrs. Nancy Imlay Edwards

Nancy Imlay Edwards Foundation Ms. Amy Edwards Seals and Sofia Seals

#### **Memorials Continued**

### Edwards (continued)

Ms. Heather Edwards Mr. William Edwards

Mr. & Mrs. Tom O'Malley, Jr.

Mr. & Mrs. Bernard H. Ówens, Jr.

Mr. & Mrs. James E. Hanley

In Memory of Ms. Anna Feuerstein

Mr. Arnold D. Feuerstein

In Memory of Mr. Ralph Gonzalez

Mrs. Helen Gonzalez

Wiechelman Accountancy Corporation

Donald G. Mulder, C.P.A.

In Memory of Mr. John R. Graham

Mrs. Inga Johnson

In Memory of Mr. Jay Dexter Griebel

Ms. Anna V. Schirra

#### In Memory of Mrs. Marjorie Hamilton

Cooperative of American Physicians CAP Physicians Insurance Agency, Inc.

Ms. Scarlett Briggs Mrs. Virginia Smith Mr. Glenn Hoppe

Ms. Dorothy Sherman

#### In Memory of Mr. Robert Stephen Hamkalo

Dr. Barbara Ann Hamkalo

In Memory of Mrs. Anne Hamkalo

Dr. Barbara Ann Hamkalo

## In Memory of Mrs. Marilyn Eleanor

Mr. and Mrs. Gavin S. Herbert, Sr. Mrs. Josephine D. Trov Gleis Josephine Herbert Gleis Foundation Mr. & Mrs. Gavin S. Herbert, III

#### In Memory of Mr. John R. Hoffman

Mr. Robert Steven Hoffman

In Memory of Mrs. Vera James

Mr. James R. Crawford

In Memory of Mrs. Bernice T. Kirkland

Mr. and Mrs. Tom Thompson

#### In Memory of Mr. and Mrs. Kenneth J. B. Knorpp

Ms. Joelda Owens Mr. Jacob Frank Knorpp

In Memory of Mr. Glenn Thomas Kray

Mr. and Mrs. Ted Averill

In Memory of Mrs. Sally Mitchell

Mr. and Mrs. Martin V. Jones Mr. and Mrs. Ed Scheck

In Memory of Mr. Elmo J. Navaroli

Mr. and Mrs. Daniel D. Harper

#### **Memorials Continued**

#### In Memory of Mr. Ronnie Pastel

Ms. Cheryl Pontius

In Memory of Ms. Lorraine Pfankuch

Mrs. Sandra L. Sage

In Memory of Mr. Jack E. Schicketanz

Ms. Patricia L. Lawrence

In Memory of Ms. Helen S. Simpson

Mr. and Mrs. Robert A. Naeve

#### In Memory of Mr. Fred Stadelmayer

Mrs. Rose Stadelmayer

Ms. Rosi Byall

Mr. & Mrs. Bob Juedes

Mr. Orland Justa

Mr. and Mrs. Ed Stadelmayer

Ms. Dorothy Retchless

#### In Memory of Mrs. Judith K. Swayne

Mr. and Mrs. Walter H. Coursen, III

Professor John D. Dombrink

Mr. and Mrs. Ranney Draper, Draper Family

Foundation

Mr. David S. Godber

Mr. & Ms. Paul Hinman

Ms. Karen J. Kallay

Mr. Gerald J. Keir

Mr. Frederick L. Lunceford

R.W. Lyall & Company, Inc.

Mr. Jeff Lyall

Mr. & Ms. Francisco Marmolejo

Mr. and Mrs. Phillip D. Matthews

Mr. and Mrs. Ed Scheck Mr. Alan Sorkin

Ms. Joanne Udell

In Memory of Mr. Ben Swerdlow

Mr. and Mrs. Steve Swerdlow

#### In Memory of Mr. Carlton E. Thompson

Mr. Richard E. Thompson

#### In Memory of Ms. Tzu-chai Wang

Mr. & Mrs. James Liu

Mr. & Mrs. Jiaw Chu

Mr. & Mrs. Vincent M. S. Huang

Mr. Steve Huang

Mr. & Mrs. Hong-Ye Frank Wu

Mr. & Mrs. Robert C. Y. Koh

Mr. & Mrs. Sweehai S. Ong

Mr. & Mrs. Yi-Yi Wei Mr. & Mrs. Chan Feng Tsai

Ms. Margaret Chao, Čhao Family Trust

Mr. & Mrs. Brian Chow Mr. & Mrs. Dan Li-Chu Lee

Lees Accounting, CPA, P.C.

Chun Ching Wang

Mr. & Mrs. John Liu S. Y. Tsong

Ms. Aileen Huang

Ms. Margaret Chang Mr. Milton Chang

Crispin Chang

Mr. Jeffery Tseng

Mr. & Mrs. Roy Yang Mr. & Mrs. Mike Pan

Continued on next page

#### **Donations**

Mr. and Mrs. Jeff Abbit Mr. Andre Abella Dr. Michael G. Agadjanyan Dr. and Mrs. Bruce M. Albert Alzheimer's Association Orange County Mr. and Mrs. Ken Ammann Mr. Daniel Avala Dr. and Mrs. Rudolph C. Baldoni Beacon Pointe Advisors Ms. Catherine Beaumont Mr. and Mrs. David Belfiore Mr. Hector Beltran Ms. Fay Blix, Esq. Ms. Shirley Bloom Dr. and Mrs. Mathew Mark Blurton-Jones Mr. and Mrs. Randy Bohart Ms. Jeannine N. Bonesteele Mr. and Ms. Ronald Bowman Ms. Suzanne Bragg Mr. Timothy Marc Bremer Mr. Robert Britton Drs. Susan Bryant and David M. Gardiner Mr. and Dr. Viktor B. Bullain Mr. Rodney Burris Ms. Kimberly Butrum Hon. and Mrs. William Campbell Mrs. Valerie Beth Cantwell Ms. Pilar Capaldi CareCHOICES Caring Companions at Home Mr. Jim Carmona Ms. Abby Carpodian Mr. and Mrs. John T. Carr Mr. and Mrs. Thomas C. Casey Mr. Drew Chesen Ms. Stefani Haunani Ching Miss Kendall Chou Mr. and Mrs. Thomas J. Chou Mr. and Mrs. Stewart A. Clark Mr. Anthony Joseph Coco Ms. Joy Cogan Mrs. Sharon Cole Ms. Latona Collard Ms. Marilyn Conrath Mr. James and Hon. Pam Patterson Mr. and Mrs. Volkan Coskun Dr. Carl W. Cotman Mr. and Mrs. Sean Cowell Ms. Debra Craig Ms. Linda Crans The Crean Foundation Mr. Donald J. Crevier Dr. and Mrs. David H. Cribbs Mr. Christopher Davis Ms. Lea Davis Mr. and Mrs. Anthony V. Di Giorgio Mr. Francisco Diaz Drs. Cordula and Malcolm Dick Dr. Marilyn L. Ditty Mr. Eric Wayne Doran Mr. Patrick Drumheller Mr. James Dunn Mr. Matthew C. Dunn and Ms. Penny J. Ms. Maya K. Dunne Dr. Jacqueline M. DuPont and Mr. Marc Mr. William Edwards and Heather Edwards Nancy Imlay Edwards Foundation Ms. Michelle Denise Egerer Mrs. LaDorna Eichenberg

Equity Ventures, Inc.

Ms. Shannon Elizabeth Eusey Mr. and Mrs. Daniel Evans Mrs. Lynda Everman Mr. Paul Fenner First Foundation Bank Drs. Daniel and Emily Vogler Crean Flynn Mrs. Joanne Marie France Ms. Catherine Frandsen Mr. and Mrs. Philip R. Friedel Mr. and Mrs. Stephen Fujimoto Mr. John Garcia Ms. Sonia Garcia Mr. Kevin Giles Mr. Steve Gonzalez Maryann Goodman, MSW Mr. Theodore H. Gordon Mr. and Mrs. Richard L. Graham Mr. Robert Grav Ms. Jane M. Gray Mr. and Mrs. Geoffrey Steven Gray Mr. and Mrs. Seth Greiner Dr. Joshua D. Grill Guardian Angels Home Mr. Paul Guardino HCP, Inc. Mr. and Mrs. Mike Hablitzel Mr. and Mrs. Bruce R. Hallett Dr. Barbara Ann Hamkalo Mr. and Mrs. Thomas T. Hammond Donald L. Hansen, Pharm.D. Mr. Randy Harrison Ms. Maureen T. Hausen Dr. Neal Hermanowicz and Ms. Dagny Thorgilsdottir Ms. Člaudia S. Hernandez Mr. Michael Hernandez Mrs. Doranne Heywood Mr. Sean Hill Mr. Dan Kim Hoang Mr. Barry L. Hoeven Ms. Lotte Hoffman Mr. Richard Holmes Mr. Donald Hoover Mrs. Ursula M. Hoshaw Mr. Robert Kazuo Hoshida Ms. Charline Howell Mrs. Victoria M. Hsiung Mr. and Mrs. Albert K. Huang Mr. Wesley Huffor Mr. Miro Hussenjian Mr. John D. Hussey Mr. Benjamin Ingersoll Mr. Matthew Ireson Irvine Cottages and Assured In-Home Care Mrs. Leleng Isaacs Vice Chancellor Meredith Michaels Ms. Carolyn Jensen Mr. Romel Johnson Mr. and Mrs. Kent A. Jordan Mr. and Mrs. Jeffrey C. Joy, Greenberg Traurig, LLP Mr. and Mrs. Frank P. Kavanaugh Dr. Claudia Helen Kawas Ms. Jill Yonago Kay Ms. Kendall Kay Mr. and Mrs. Jim Killeen Ms. June Y. Kim Mr. and Mrs. Robert A. Kleist Mr. and Mrs. Jason S. Koshi Ms. Tina Kramer Dean Frank M. LaFerla

Ms. Theresa M. Laurente Mr. Jordan Leichtner Mr. and Mrs. Scott N. Leslie Ms. Mary Ellen Lewis Dr. and Mrs. Charles L. Limoli Mr. and Mrs. James B. Lingle Mr. and Mrs. Roger H. Lisabeth Mr. Jeff Liu Mr. and Mrs. Hsin Y. Liu Ms. Nancy Doris Locke Mr. David Lopez Ms. Ana Lorenz Mr. Miguel Lozano Mr. and Mrs. Ronald Madaras Mr. and Mrs. Mohannad S. Malas Ms. Teresita Marsingill Mr. Herb Martin Ms. Lauralee E. Martin Youngsong Martin Dr. and Mrs. Goran Matijasevic Mr. Bill May Gordon and Rose Mc Alpine Fdn for Neuroscience Research Mr. and Mrs. Roger Mc Erlane Mr. Jim McAleer Ms. Sandy McDaniel-Laughlin Mr. and Mrs. Paul McDonald Mr. and Mrs. Neeraj K. Mehta Mrs. Suzanne G. Melin Mr. Garry Meluski Dr. Ronald B. Miller Mr. Douglas Wayne Mills Mr. Dennis Mitchell Ms. Diane Mondini Mr. Alan Monroy Monster Loans Mr. Donald G. Mulder Mr. and Mrs. William D. Naeve Mr. and Mrs. Robert A. Naeve Mr. Steven Nagata Mr. and Mrs. Theodore C. Nark Mr. Samuel Navarro Mr. and Mrs. Laurence Netherton Mr. Kevin Nguyen Mr. Sean Nichols Dr. Scott Michio Nishizaka Dr. Robert K. Ockner Mr. Zachary Ojeda Mr. Manuel Ontiveros OC American Italian Renaissance Foundation Mr. Fernando Paco Ms. Grace Pak Ms. Cynthia Paris Mr. Stéve Parsons Dr. Irene M. Pedersen Mr. and Mrs. Sidney R. Petersen Mr. and Mrs. Alvin J. Pfeiffer Drs. Roslyn Laudati and James B. Pick Dr. Aimee Pierce Mr. Jerry Pimentel Dr. Wayne W. Poon Mr. Cristian and Dr. Viorela Pop Mr. Fredrick Prosch Dr. and Mrs. Charles John Quilter Ms. Kayleah Raimer Mr. and Mrs. Kurt B. Redfern Mr. and Mrs. John Reese Ms. Melissa V. Rentchler Mr. Carlo Reyes Mr. and Mrs. George Robertson Mr. Christopher Rodriguez

Dr. Irene Lange

#### **Donations Continued**

Mr. and Mrs. Joseph R. Rodriguez, II

Mr. Ryan Romain Mr. Jeffrey S. Rovner

Mrs. Sandra L. Sage

Mr. and Mrs. Fred Salter, III Ms. Maryanne Sawoski

Mr. and Mrs. Ed Scheck

Mr. and Ms. Anibal E. Scheinker

Ms. Anna V. Schirra Mr. Fred Schwartz Ms. Geri Schwartz

Ms. Amy Edwards Seals and Sofia Seals

Drs. Ronnie Hanecek and Bert Semler

Ms. Guita Shariki Ms. Benedicte Shipley Mr. and Mrs. Loren B. Shook

Dr. Diane B. Silber

Silverado

Dr. Robert E. Simon Mr. Bob Simpson Mr. Charles Simpson

Mr. John Slezak Mrs. Virginia Smith Mr. Marcelo P. Soares

Mr. Alan Sorkin Mrs. Karen R. Speros

Mr. and Mrs. Rand Sperry Sperry Equities

Mr. David Sprang Mrs. Rose Stadelmayer Dr. E. James Stanley.

Dr. Craig and Mrs. Shauna Stark

Boyd Steele, Ret. U.S.N.

Drs. William C. and Joan Steffan

Mr. James Sterner

Ms. Rebecca Stevenson Summer House at Walnut Village

Mr. and Mrs. Tseng Y. Sun Sunrise Senior Living

Mr. and Mrs. Steve J. Suryan

Mr. Thomas C. Sutton Ms. Marsha Swartz Mr. Keith D. Swayne

Mr. and Mrs. Jerry N. Sweet Mr. and Mrs. Steve Swerdlow Mr. and Mrs. David Swoish

TDK Enterprises Corp.

Mr. and Mrs. T. Takeud

Mr. and Mrs. T. Takeuchi Mr. and Mrs. Larry Tenebaum

Drs. Andrea J. Tenner and Thomas L. Poulos Mr. and Mrs. Peter J. Tennyson, Esq.

Leslie Michels Thompson, Ph.D. Ms. Patricia A. Ting

Mr. and Mrs. Allen Cheng Tsai Ms. Susan Gertrude Unger

Union Bank

Mr. Peter Valenzuela Ms. June L. van den Noort

Mr. Jack Vandenbossche

Mr. Tom Vannou

Dr. Tonia M. Vojtkofsky Mr. Brian Vondersaar

Mr. and Mrs. Andrew P. Walencewicz

Mr. and Mrs. Ralph C. Wallace

Jeanne A. Walt Charitable Remainder Trust

Walnut Village Chapel Mrs. Jaynine Warner

Welltower Wells Fargo

Mr. and Mrs. Paul Wexler Mr. Ronald E. Widick Mr. Justin Williams

Mr. and Mrs. Bill Williams Mr. Mark J. Wilson

Ms. Cyndi Wilson Mr. Justin Wingler

Mr. and Mrs. Clint Woesner, Betty's

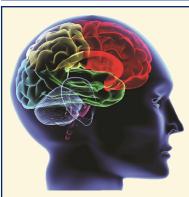
Foundation

Ms. Marilyn Wotring
Dr. Zehua Laura Xia
Dr. and Mrs. Michael Yassa
Mr. Ryan Scott Yonago
Mr. and Mrs. Burton S. Young

Dr. Jen Yu

Mrs. Ina S. Zeleznick Ms. Mina Zivkovic

## CONSIDER THE POSSIBILITIES



As the end of the year nears, we pause and give thanks. UCI MIND faculty and staff convey our heartfelt and immense gratitude to donors and friends who support our research.

Alzheimer's disease is the most common cause of dementia which afflicts more than 40 million people worldwide. A uniquely human disorder, it robs loved ones of higher order cognitive abilities including memory, language, decision-making and judgment and ultimately results in functional decline in the ability to complete activities of daily living and complete dependence on others for care. They fade away into the disease that ultimately takes them from us.

Though this reality is harsh, it does not have to exist. Research is the key. UCI MIND is home to an unparalleled collection of basic and clinical scientists who have committed their professional lives to solving the problems of Alzheimer's disease and other neurodegenerative disorders. Federal and other competitive funds awarded them is testimony to their talent.

Your private philanthropic gift in any amount can help bolster grant budgets, providing leverage that allows the researcher to test a new idea and make bold leaps in discovery.

Working collaboratively on many fronts, each member of this faculty is dedicated to unlocking ways to fight Alzheimer's. Consider the possibilities: the iPS cell bank, preclinical biomarkers, cerebrospinal fluid, functional MRIs, stress and diet in mice, neuroimaging, inflammation and microglia, the 90+ study, exercise, oxidative stress, neurogenesis, ethical considerations for clinical trials.

Where will research lead? Just consider the possibilities. Your gift can make the difference. Please use the enclosed envelope to return your donation and invest in discovery.

Please contact Linda Scheck, Director of Development and Donor Stewardship, with any ideas, questions or comments at *Ischeck@uci.edu* or *949-824-3251*.

UCI MOND



Institute for Memory Impairments and Neurological Disorders 2646 Biological Sciences III Irvine, CA 92697-4545

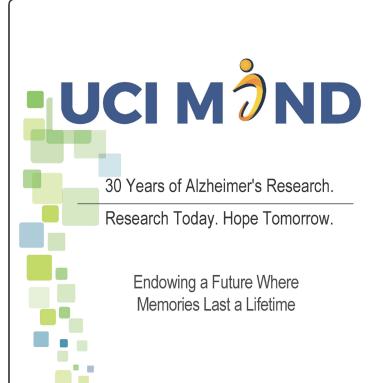
Non Profit Org. US Postage PAID Santa Ana, CA Permit No. 1106

### Research Today. Hope Tomorrow.



MIND MATTERS is a publication of the UCI Institute for Memory Impairments and Neurological Disorders in collaboration with the Alzheimer's Disease Research Center (ADRC) and the California Alzheimer's Disease Centers (CADC). The ADRC is funded by a grant from the National Institute on Aging and supports and promotes interdisciplinary research on Alzheimer's disease. The CADC is funded by the California Department of Public Health. The CADC provides expert clinical assessments and diagnosis of memory complaints related to Alzheimer's disease and other dementias.

Editors: Joshua Grill, Ph.D. and Chelsea Cox, MPH, MSW



The purpose of our endowment is to financially sustain the mission and work of UCI MIND. You can make a significant contribution to endow our future...and help memories last a lifetime. It's easier than you think.

Here are a number of charitable gift and estate planning strategies that can benefit you and build our endowment.

- CHARITABLE BEQUESTS
- BENEFICIARY DESIGNATIONS
- CHARITABLE LIFE ESTATE
- CHARITABLE LIFE INCOME PLANS

To learn more about how you can make a significant gift to endow our future, please contact us.

University of California, Irvine (949) 824.6454 | www.plannedgiving.uci.edu