3rd Annual Sanford Health-SDSU Biomedical Research Symposium
November 10, 2015 | Sanford Center; Sioux Falls, SD

8:00 am   Registration and Light Breakfast in Moquist Hall
8:30 am   Welcome and Opening Remarks in Dakota Room
   David Chicoine, PhD; President of South Dakota State University (SDSU)
   David Pearce, PhD; President of Sanford Research (SR)
8:45 am   Modeling Childhood Disease with Reprogrammed Stem Cells: New Insight into Neurological Phenotypes and Developmental Pathways
   Kevin Francis, PhD; Associate Scientist, Children’s Health Research Center, SR
9:15 am   KEYNOTE SPEAKER
   Oxidative Stress and the Progression of Alzheimer Disease: The Triangle of Death for Neurons associated with altered Glucose Metabolism, mTOR Signaling, and Protein Phosphorylation
   D. Allan Butterfield, PhD; UK Alumni Association Endowed Professor of Biological Chemistry, University of Kentucky
10:15 am  Break
10:30 am  A One Health approach to Neurological Disorders: Interface between Veterinary and Human Medicine
   Alan Young, PhD; Professor of Veterinary & Biomedical Sciences, SDSU
11:00 am  Effects of Environmental Factors, the Genetic Background and Gender on the Behavioral Phenotypes in Wild Type Mice and Mouse Models of Juvenile Batten Disease
   Attila Kovacs, PhD; Assistant Scientist, Children’s Health Research Center, SR
11:30 am  Poster Flash Talks (selected from poster abstracts; 10 minutes each)
   Imaging Sub-Diffraction Membrane Bending Dynamics during Clathrin-Mediated Endocytosis.
   Brandon Scott, PhD Postdoctoral Fellow; Hoppe Lab, Chemistry and Biochemistry, SDSU
   Identifying Human Islet miRNAs associated with β Cell Loss in a Humanized Mouse Model.
   Regan Roat, MD/PhD Candidate; Guo Lab, Children’s Health Research Center, SR
   Prebiotic Diet and Gut Microbiome: a Double Blind Controlled Crossover Intervention in Metabolic Syndrome Patients.
   Bijaya Upadhyaya, PhD Candidate; Dey Lab, Health and Nutritional Sciences, SDSU
   The Collecting Duct Principal Cell Fate Selection Mediated by Notch/RBPJ Signaling involves Hes1 mediated Activation of Elf5 Expression.
   Malini Mukherjee, PhD Postdoctoral Fellow; Surendran Lab, Children’s Health Research Center, SR
12:15 pm  Lunch in Coyote Room
1:30 pm   Poster Session in East Bay
3:00 pm ABC Transporters in Cancer  
*Surtaj Iram, PhD; Assistant Professor of Chemistry & Biochemistry, SDSU*

3:30 pm Combining Immune Checkpoint Inhibition with Chemoradiotherapy in Head and Neck Cancer  
*Steven Powell, MD; Hematology & Oncology, Sanford Health  
Associate Scientist, Cancer Biology Research Center, SR*

4:00 pm Cyclin A2 and Cdk2 as Novel Targets of Aspirin and Salicylic Acid: A Potential Role in Cancer Prevention  
*Jayarama Gunaje, PhD; Associate Professor of Pharmacy, SDSU*

4:30 pm Closing Remarks  
*Alexei Savinov, MD, PhD; Associate Scientist, Children’s Health Research Center, SR*

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**D. Allan Butterfield, PhD**

Dr. Butterfield is the University of Kentucky Alumni Association Endowed Professor of Biological Chemistry, Director of the Redox Metabolism Core of the NCI-designated Markey Cancer Center, and Faculty of the Sanders-Brown Center on Aging. After obtaining his PhD in Physical Chemistry at Duke University, he obtained a NIH Postdoctoral Fellowship in Neuroscience at the Duke University School of Medicine. Dr. Butterfield joined the Department of Chemistry at the University of Kentucky in 1975, and rose to Full Professor in 1983. His laboratory has had continual support from the NIH, NSF, and DoD and is well known in the field of oxidative stress and redox proteomics (a technique pioneered in his laboratory) applied to Alzheimer’s disease and its earlier stages. Dr. Butterfield has published over 600 refereed scientific papers and trained over 95 graduate students and postdoctoral scholars. Professor Butterfield serves as Senior Associate Editor of the *Journal of Alzheimer’s Disease*, and on the editorial boards of 14 journals, including *Neurobiology of Disease, Aging Research Reviews, Antioxidants and Redox Signaling*, and *Free Radical Biology & Medicine*. Beginning this semester, Dr. Butterfield has been appointed Associate Vice President for Research at UK.

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**Organizing Committee**

*Adam Hoppe, PhD; Associate Professor, Chemistry & Biochemistry, SDSU*
*Kevin Kephart, PhD; Vice President for Research & Economic Development/Professor, SDSU*
*Omathanu Perumal; Associate Professor, Pharmaceutical Sciences, SDSU*
*Alexei Savinov, MD, PhD; Associate Scientist, Children’s Health Research Center, SR*
*Marcia Smith; Director Assistant, Research Administration, SR*
*Deb Vigdal; Program Assistant, Division of Research and Economic Development, SDSU*
*Peter Vitiello, PhD; Associate Scientist, Children’s Health Research Center, SR*
*CY Wang, PhD; Associate Dean/Professor, Health & Nutritional Sciences, SDSU*
*Alan Young, PhD; Professor of Veterinary & Biomedical Sciences, SDSU*