

**Joint Symposium on Life Science, Computational Science, and Structural Engineering  
Between Kobe University and UC San Diego**

November 18, 2019

1:00 pm to 5:40 pm

Location: Conference Room, Center for Neural Circuits and Behavior, UC San Diego

**Agenda:**

1:00 – 1:10 Welcome from Organizers

1:10 – 1:30 Opening Remarks

Prof. Miroslav Krstic, Senior Assoc. Vice Chancellor for Research, UC San Diego

Prof. Matsuto Ogawa, Executive Vice President for Research and Industry-University Cooperation, Kobe University

Introduction of the participants

1:30 – 2:45 Collaborative Research in Life Science

***Importance of Diacylglycerol Kinase Alpha Activation via 67KDa Laminin Receptor in the Vitamin E Induced Improvement of Nephropathy***, Prof. Yasuhito Shirai, Pharmacology, Kobe University

***Protein Kinase C Signaling***, Prof. Alexandra Newton, Pharmacology, UC San Diego

***How Enzymes Act on Membranes Based on Lipidomics and Computational Approaches***, Prof. Edward Dennis, Chemistry, Biochemistry & Pharmacology, UC San Diego

2:45 – 3:35 Collaborative Research in Computational Science

***Extracting Neural Dynamics Based on Computational and Data-driven Approaches***, Prof. Toshiaki Omori, Electrical & Electronic Engineering, Kobe University

***Architecture of SDSC Supercomputers and Computational Science Simulations***, Prof. Amitava Majumdar, SDSC and Radiation Medicine & Applied Sciences, UC San Diego

3:35 – 3:50 Coffee/Tea Break

3:50 – 5:30 Collaborative Research in Structural Engineering

***Challenges of Kobe University for Resilience of Infrastructure by Collaborations with University of California, San Diego***, Prof. Hideo Fujitani, Architectural Engineering, Kobe University

***Advancing Design and Performance Assessment of Concrete Structures for Seismic Resiliency***, Prof. Benson Shing, Structural Engineering, UC San Diego

***Real-time Hybrid Test System of Seismic Response Control using AMD***, Prof. Yoichi Mukai, Architectural Engineering, Kobe University

***Response of Seismically Isolated Structures Subjected to Beyond Design Basis Shaking***, Prof. Gilberto Mosqueda, UC San Diego

5:30 – 5:40 Closing remarks (Kobe and UCSD representatives)