

**The 7th International Conference on Biomedical Engineering in Vietnam, June 27-29, 2018, Ho Chi Minh City, Vietnam
KeyLab Program**

Day 1: 27 Jun, 2018

8:00 – 8:30	REGISTRATION
PLENARY SESSION W1	
8:30 – 9:30	The Opening of the Conference
9:30 – 10:20	Keynote Lecture by Jeff Bulte - Clinically Applicable MR Tracking of Naked, Scaffolded and Encapsulated Cells
10:20 – 10:30	Group photo (A2 Building Entrance)
10:30 – 10:50	COFFEE BREAK - POSTER VIEWING
PLENARY SESSION W2	
10:50 – 11:40	Keynote Lecture by Ruth Nussinov - Oncogenic K–Ras signaling and drug discovery
11:40 – 11:50	<i>Award Ceremony: Keylab prize</i>
11:50 – 12:00	MOU signing between IU and National Chung Hsing University, Taiwan and between BME Dept. – IU, Vietnam & BMSE Dept. – GIST, South Korea
12:00 – 13:00	LUNCH - POSTER VIEWING
PARALLEL SESSION W3	W3F: Recent computational and experimental advances in molecular medicine – Room: A2.410
SESSION CHAIR	Paolo Carloni
13:10 – 13:55	Mai Suan Li – Pulling to probe ligand binding affinity and protein aggregation rate
13:55 – 14:40	Giuseppe Legname – Replacement of residue H95 with charged amino acids in the prion protein decreases prion conversion propensity
14:40 – 15:00	COFFEE BREAK - POSTER VIEWING
PARALLEL SESSION W4	W4F: Recent computational and experimental advances in molecular medicine – Room: A2.410
SESSION CHAIR	Paolo Carloni
15:00 – 15:45	Giulia Rossetti – Alternative targets for neurodegeneration: beyond aggregation of misfolded proteins
15:45 – 16:30	Giovanni Natile – Interaction of copper transporters with platinum drugs: a combined theoretical-experimental approach
18:00 – 20:00	BANQUET at Van Thanh Tourist Park

Day 2: 28 Jun, 2018

PLENARY SESSION T1	
8:00 – 8:30	Keynote Lecture by Wellington Pham - Molecular Imaging in The Era of Precision Medicine
8:30 – 9:20	Keynote Lecture Heragu Sunderesh - Deterministic And Stochastic Models For Health Care Systems
9:20 – 10:10	Keynote Lecture by Evan Snyder - Using Stem Cells To Model Neurological Disease & Advance Personalized Medicine
10:10 – 10:30	COFFEE BREAK - POSTER VIEWING
PLENARY SESSION T2	
10:30 – 11:20	Keynote Lecture by Alex Vitkin - Photon Mayhem: Using Light for Structural and Functional Assessment of Biological Tissues.
11:20 – 12:10	Keynote Lecture by Nigel Culkin - Entrepreneurial Universities in the Region: A Consensus for Change?
12:15 – 13:00	LUNCH - POSTER VIEWING

PARALLEL SESSION T3	T3F: Recent computational and experimental advances in molecular medicine – Room: A2.410
SESSION CHAIR	Nguyen The Toan
13:10 – 13:55	Gabriele Meloni – The metalloneurochemistry of metallothionein-3 in health and disease
13:55 – 14:40	Stefano Ciurli – Structure and dynamics of Helicobacter pylori HypA, a nickel-chaperone: an integrated approach using NMR spectroscopy and computational tools
14:40 – 15:00	COFFEE BREAK - POSTER VIEWING
PARALLEL SESSION T4	T4F: Recent computational and experimental advances in molecular medicine – Room: A2.410
SESSION CHAIR	Nguyen The Toan
15:00 – 15:45	Jitrayut Jitonnom – Application of Multiscale Modeling Approaches to the Investigation of the Enzyme-Catalyzed Reaction: Case Studies of Metalloenzymes and Glycosidases
15:45 – 16:30	Monti Pettitt – Surface Tension and Solubility vs. Hydrophobicity
Day 3: 29 Jun, 2018	
PARALLEL SESSION F1	F1F: Recent computational and experimental advances in molecular medicine – Room: A2.410
SESSION CHAIR	Ruth Nussinov
8:00 – 8:40	Le Thi Ly – Rational Designs of Hemagglutinin Based Universal Influenza Vaccine
8:40 – 9:20	Giorgio Colombo – Combining computational and bioorganic chemistry for the design of new chemical tools
9:20 – 10:05	Vania Calandrini – Multiscale (hybrid) modeling for pharmacological applications
10:05 – 10:20	COFFEE BREAK - POSTER VIEWING
PARALLEL SESSION F2	F2F: Recent computational and experimental advances in molecular medicine – Room: A2.410
SESSION CHAIR	Ruth Nussinov
10:20 – 11:10	Alejandro Giorgetti – Bioinformatics and Multi-scale simulations of membrane proteins: the case of bitter taste receptors
11:10 – 12:00	Mercedes Alfonso Prieto – How sugars can taste bitter: multiscale simulations of the human bitter taste receptor hTAS2R16
12:00 – 13:00	LUNCH - POSTER VIEWING
PARALLEL SESSION F3	F3F: Recent computational and experimental advances in molecular medicine – Room: A2.410
SESSION CHAIR	Paolo Carloni
13:10 – 13:45	Marc Baaden – Computer Simulations Provide Guidance for Molecular Medicine through Insights at the Atomic Scale
13:55 – 14:30	Rosa Buló – New developments in adaptive QM/MM: Modeling chemistry in water
14:30 – 14:50	Nguyen The Toan – Recent Computational Studies of Molecular Biomedical System at the Vnu Key Laboratory on Multiscale Simulation of Complex Systems
14:50 – 15:00	COFFEE BREAK - POSTER VIEWING
PARALLEL SESSION F4	F4F: Recent computational and experimental advances in molecular medicine – Room: A2.410
SESSION CHAIR	Paolo Carloni
15:00 – 15:45	Mark Tuckerman – Molecular dynamics based exploration and learning of free energy landscapes of molecular crystals and oligopeptides
15:45 – 16:30	Trinh Xuan Hoang – Bend and twist in DNA condensates