

THE 8th KRIBB ASIA-PACIFIC IDP SYMPOSIUM

“Multidisciplinary approaches for IDPs”

2017/10/19 (Thu)

09:20: Welcoming Remarks (Kyou(“Q”)-Hoon Han, KRIBB/Univ. Sci. Tech.)

09:30-11:00 (Session 1) Chair: Sun Choi (Ewha Womans Univ. Korea)

David Eliezer (USA)“Linking the structure and function of alpha-synuclein”

Jung Ho Lee (Korea)“Observation of the interaction between lipid and a-synuclein isoforms”

Tomohiro Mizobata (Japan) ..“Two ex. of persistent fibrillogenesis: functionally denatured mol. chaperones and a-syn”

11:00-12:30 (Session 2) Chair: Dong-Hoon Choi (KISTI, Korea)

Christian Griesinger (Germany)...“NMR to study dynamics with applications to immunology & neurodegeneration”

Robert Konrat (Austria).....“NMR reveals order in disordered proteins”

Kyou-Hoon Han (Korea)..... “NMR definition of the pre-structured motifs (PreSMOs) active sites in IDPs”

12:30-14:30: Lunch (KRIBB guesthouse cafeteria)

14:30-16:00 (Session 3) Chair: Jin-Hyun Ahn (SungKyunKwan Univ., Korea)

Jozsef Kardos (Hungary)“Investigation of the structure of IDPs by CD: method development and application”

Paramjit Arora (USA) “Protein domain mimics as modulators of protein–protein interactions”

Chul Geun Kim (Korea)“A novel platform for the intrinsic disorder-based drug discovery”

16:00-16:30 (coffee break & group photo)

16:30-18:30 (Session 4) Chair: Joon Kim (Korea Univ., Korea)

Sihyun Ham (Korea) “Computational approach for understanding protein-aggregation diseases”

Gonzalo de Prat Gay (Argentina)... “Hidden structural codes in protein intrinsic disorder”

Young-Ho Lee (Japan)“Amyloidogenesis of a-synuclein on vesicles mimicking mitochondrial membranes”

Peter Tompa (Hungary)“Structural disorder promotes phase separation of C9orf72 dipeptide repeats in ALS”

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2017/10/20 (Fri)

09:20: Announcements (Excursions, Check-outs, Airport shuttles, Documents, etc)

09:30-11:00 (Session 5) Chair: Jin-Hae Kim (Samsung Advanced Inst. Tech., Korea)

Hari Arthanari (USA).....“Capturing the multiple functional forms of IDPs through NMR”

Joon Kim (Korea)“Intr. disord. ribosomal proteins play multiple roles in translation, cancer & stress responses”

Norman Davey (Ireland)...“Understanding the functional role of the intrinsically disordered proteome”

11:00-12:30 (Session 6) Chair: Jeong-Sun Kim (Chonnam Nat. Univ., Korea)

Seong Soo An (Korea).....“Specific versus non-specific interactions of proteins in neurodegenerative diseases”

L. M. E-Fonseca (USA)....“Atomic-level charact. of the effects of phosphor. on the struct. dynamics of disordered proteins”

Shin-ichi Tate (Japan).....“Inter-domain communication through intrinsically disordered region (IDR)...”

12:30-14:30: Lunch (KRIBB guesthouse cafeteria)

14:30-16:30 (Session 7) Chair: Kyeong-Kyu Kim (SungKyunKwan Univ., Korea)

Christopher MacRaid (Australia)“Understanding the immune interactions of a disordered protein antigen: MSP2”

Myung-Shik Lee (Korea)“Islet amyloid, a cause of human-type diabetes and its clearance by autophagy enhancer”

Francois X. Theillet (France).....“Structural disorder of alpha-synuclein persists in mammalian cells”

Baik-Lin Seong (Korea)“TAR RNA as chaperone for the folding of the natively unfolded HIV tat protein”

16:30-17:00 (coffee break & group photo)

17:00-18:30 (Session 8) Chair: Yeon-Gyu Yu (Kookmin Univ., Korea)

Seung-Ryeoul Paik (Korea) “Assembly of gold nanoparticles via promiscuous adsorption and mol. engagement of a-syn”

Anthony Wright (Sweden).. “Intrinsic disorder and change-of-function mutations that adapt transcription factor function”

Steven J Metallo (USA).....“Small molecule binding to the IDP c-Myc: specificity and inhibition”

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2017/10/21 (Sat)

09:30-12:00 (Session 9) Panel: D. Eliezer, SS. An, F.-X. Theillet, P. Arora, JH Lee, A. Wright.

Round table discussion

12:00-14:00 (Lunch):

Free afternoon

18:00-20:00 (Fariwell Dinner): **Closing ceremony**