Wednesday, 27th November 2019		
17:30-20:00	Location : King Skyfront Tokyu REI Hotel, 1st floor	
17:30-20:00 18:00-20:00	Registration Reception Presentations from AHeDD representatives	
Thursday, 2	28th November 2019	
10:00-13:00	Location : LiSE, Conference room, 1st floor	
10:00-10:20	Opening addressYutaka AkiyamaProfessor, Department of Computer Science, Tokyo Institute of Technology, JapanShengyong YangProfessor, Department of Medicinal Chemistry, Sichuan University, ChinaKyoung Tai NoProfessor, Department of Biotechnology, Yonsei University, Korea	
10:20-12:00	Session 1: Chemoinformatics and ADMET prediction (Chairs: Liu Hong, and Kyong Tai No)	
10:20-10:45	In silico ADMET prediction and optimizationYun TangProfessor, School of Pharmacy, East China University of Science and Technology, China	
10:45-11:10	Syetems chemo-informatics and fragment based lead discovery Gyoonhee Han Professor, Department of Biotechnology, Yonsei University, Korea	
11:10-11:35	<i>Prediction of membrane permeability and plasma protein binding of cyclic peptides</i> Yutaka Akiyama Professor, Department of Computer Science, Tokyo Institute of Technology, Japan	
11:35-12:00	<i>A proteochemometric approach for beta-lactam antibiotic response prediction in Staphylococcus aureus</i> Jae Hong Shin Senior Scientist, Standigm Inc., Korea	
12:00-13:00	Lunch	
13:00-13:20	Move to PeptiDream (5 min. on foot)	
13:30-18:20	Location : PeptiDream, Auditorium, 1st floor	
13:30-14:30	Plenary Talk 1 (Chair: Yutaka Akiyama) Constrained peptides in drug discovery and development - various therapeutic applications offered by PeptiDream Keiichi Masuya Executive Vice President, PeptiDream Inc., Japan	
14:30-14:50	Coffee Break	
14:50-16:30	Session 2: Structures of Key Drug Targets (Chairs: Takatsugu Hirokawa, and Yun Tang)	
14:50-15:15	<i>CryoEM analysis of the GPCR neurotensin receptor 1-G protein complex for the future engineering of biased allosteric modulator</i> Hideaki E. Kato Associate Professor, Komaba Institute for Science, The University of Tokyo, Japan	
15:15-15:40	Discovery and development of novel CCR5 antagonists Hong Liu Professor, Shanghai Institute of Materia Medica, CAS, China	
15:40-16:05	Molecular modeling study for identification of binding site of AIMP2-DX2 inhibitor Yuno Lee Senior Scientist, Korea Research Institute of Chemical Technology (KRICT), Korea	

16:05-16:30	<i>Computer aided drug discovery with natural compounds</i> Kyoung Tai No Professor, Department of Biotechnology, Yonsei University / Director, BMDRC, Korea
16:30-16:40	Break
16:40-18:20	Session 3: Artificial Intelligence for Drug Discovery (Chairs: Weiliang Zhu, and Gyoonhee Han)
16:40-17:05	<i>Drug discovery with artificial intelligence: advances and challenges</i> Shengyong Yang Professor, Department of Medicinal Chemistry, Sichuan University, China
17:05-17:30	Multiple approaches to discover human DDX3 inhibitors for cancer therapeuticsKeun Woo LeeProfessor, Department of Biochemistry, Gyeongsang National University, Korea
17:30-17:55	Visualizations within chemogenomic active learning reveal how protein descriptors are used andunderlying truths about chemogenomic and single target QSAR model utilityJ. B. BrownJunior Associate Professor, Graduate School of Medicine, Kyoto University, Japan
17:55-18:20	Bioinformatics-Facilitated Therapeutic Target discoveryFeng ZhuProfessor, College of Pharmaceutical Sciences, Zhejiang University, China
18:20-18:35	Move to King Skyfront Tokyu REI Hotel (5 min. on foot)
18:45-20:30	Location : King Skyfront Tokyu REI Hotel, Restaurant, 5th floor
18:45-20:30	Banquet

Friday, 29th November 2019

8:30-17:45	Location : LiSE, Conference room, 1st floor
8:30- 9:00	Coffee and Donuts
9:00-10:30	Flash Talk Session: Presentations by Young Researchers in Asia-Pacific Regions (Chair: Masahito Ohue) (4 min + 1 min Q&A)
9:00-9:05	<i>Systematic construction of the cosolvents sets for cosolvent MD (CMD) with the large-scale simulation</i> Keisuke Yanagisawa JSPS Research Fellow, Department of Biotechnology, The University of Tokyo, Japan
9:06-9:11	Investigation of protein-protein interactions and hot spot region between PD-1 and PD-L1 by fragment molecular orbital method Hocheol Lim Researcher, Bioinformatics & Molecular Design Research Center, Korea
9:12-9:17	Metagenome analysis implies bacterial community and gene category composition disorder in periodontal disease sites Kazuki Izawa Researcher, Department of Computer Science, Tokyo Institute of Technology, Japan
9:18-9:23	In silico drug discovery targeting Hippo pathway and YAP-TEAD protein protein interactions for small molecules anti cancer agent Jongwan Kim Researcher, Bioinformatics & Molecular Design Research Center, Korea

Discovery of leucyl-tRNA synthetase (LRS) PPi inhibitor for modulating mTORC1 pathway via the chemical biology approach
Chulho Lee Research Associate, Department of Biotechnology, Yonsei University, Korea
Novel computational approach for natural product (NP) research: development of natural compound molecular fingerprint (NC-MFP) for exploring new NP-based drugs
Myungwon Seo Graduate Student, Department of Biotechnology, Yonsei University, Korea
Predicting membrane permeability for cyclic peptides Yasushi Yoshikawa Specially Appointed Assistant Professor, Department of Computer Science, Tokyo Institute of Technology, Japan
Development of prediction model for onset of disease and risk factor analysis Atsuyoshi Matsuda CEO, Logbii, Inc., Japan
GCMQA: a novel single-protein structure model quality assessment method using graph convolutionRin SatoGraduate Student, Department of Computer Science, Tokyo Institute of Technology, Japan
<i>Contest-based compound screening enables identification of chemically diverse inhibitors of target proteins</i> Shuntaro Chiba Researcher, MIH, RIKEN, Japan
Underestimated non-covalent interactions in protein data bank Zhijian Xu Associate Professor, Shanghai Institute of Materia Medica, CAS, China
<i>Evaluation of a self-balanced force field for biomolecule simulations</i> Sungbo Hwang Graduate Student, Department of Biotechnology, Yonsei University, Korea
Application of informatics approaches to compound library design for intractable target chemical spaces Kazuyoshi Ikeda Specially Appointed Associate Professor, Division of Physics for Life Functions, Keio University, Japan
Learning-to-rank for ligand-based virtual screening Masahito Ohue Assistant Professor, Department of Computer Science, Tokyo Institute of Technology, Japan
Multiple virtual screening strategies for the discovery of novel compounds active against dengue virus: a hit identification study Kowit Hengphasatporn, Researcher, University of Tsukuba / Chulalongkorn University
Coffee Break
Session 4: High-Performance Molecular Simulation (Chairs: Keun Woo Lee, and Shengyong Yang)
Development of the rapid QM/MM molecular dynamics techniques aimed at medium molecular drug discovery Hiroaki Nishizawa Assistant Professor, Center for Computational Sciences, University of Tsukuba, Japan
<i>New methods for highly efficient MD simulation</i> Weiliang Zhu Professor, Shanghai Institute of Materia Medica, CAS, China
<i>Next generation accelerated supercomputing: Cygnus system at University of Tsukuba</i> Taisuke Boku Director, Center for Computational Sciences, University of Tsukuba, Japan
<i>In silico Drug Discovery using Molecular Modeling and Simulation</i> Takatsugu Hirokawa Professor, University of Tsukuba / Team Leader, molprof, AIST, Japan

Friday, 29th November 2019		
9:00-17:45	Location : LiSE, Conference room, 1st floor	
13:30-17:30	AMED BINDS project special sessions	
13:30-14:15	Plenary Talk 2(Chair: Takatsugu Hirokawa)Perspectives of computational drug discovery: AMED-BINDS activities in JapanShigenori TanakaProfessor, Department of Computational Science, Kobe University / AMED BINDS Project Officer, Japan	
14:15-15:30	BINDS Achievements 1 (Chair: Takatsugu Hirokawa)	
14:15-14:40	<i>In silico drug discovery based on structural informatics and FMO method</i> Teruki Honma Group Leader, BDR, RIKEN, Japan	
14:40-15:05	Molecular simulation studies on protein functions and improvement of the efficiency of cryo-EM data collectionby machine learningTohru TeradaAssociate Professor, Interfaculty Initiative in Information Studies, The University of Tokyo, Japan	
15:05-15:30	Structural modeling of the entire EhV-ATPase in multiple states using cryo-EM data and homology modelingYu YamamoriResearch Scientist, AIRC, AIST, Japan	
15:30-15:50	Coffee Break	
15:50-17:30	BINDS Achievements 2 (Chair: Teruki Honma)	
15:50-16:15	Finding a drug candidate regulating protein function at an allosteric siteYuko ItoResearch Scientist, molprof, AIST, Japan	
16:15-16:40	<i>MD simulations and QM/MM analysis to gain insight into protein functions</i> Yoshitaka Moriwaki Assistant Professor, Department of Biotechnology, The University of Tokyo, Japan	
16:40-17:05	<i>Improving the virtual screening ability using machine learning</i> Masakazu Sekijima Unit Leader, ACDD / Associate Professor, IIR, Tokyo Institute of Technology, Japan	
17:05-17:30	Combination of molecular dynamics simulations and small-angle X-ray scattering experimentsMitsunori IkeguchiProfessor, Graduate School of Medical Life Science, Yokohama City University, Japan	
17:30-17:45	Closing Remarks	
Saturday, 30th November 2019		

9:00-10:30 Location : King Skyfront Tokyu REI Hotel, 1st floor

9:00-10:30 AHeDD Steering Committee Meeting