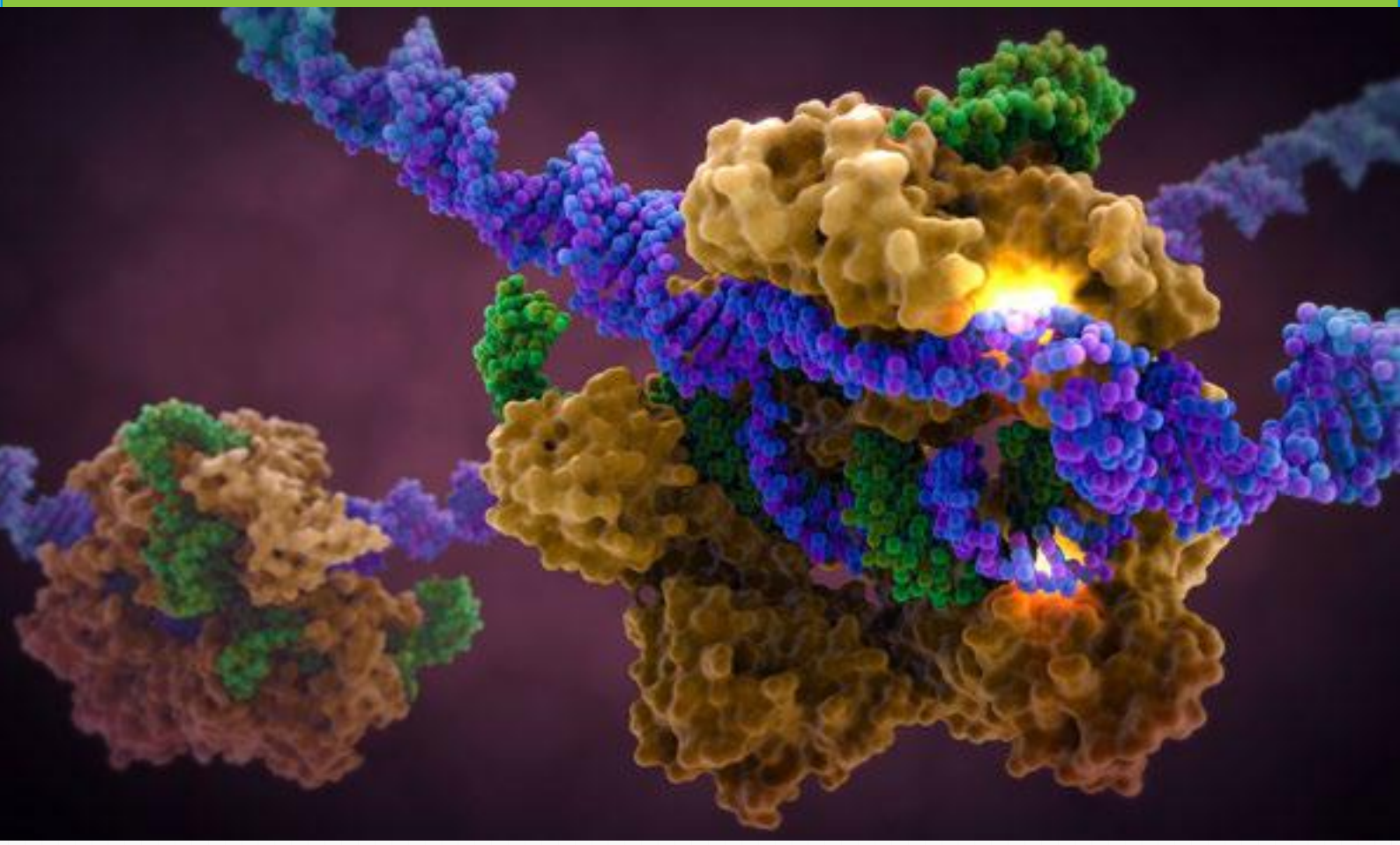
Tentative Program

9th International Conference on

Structural Biology

September 18-19, 2017 Zurich, Switzerland



Interactive Sessions

Keynote Lectures

Plenary Lectures

Workshops

Exhibitors

B2B Meetings

For available speaker slots

structuralbiology@biochemconferences.org

Conference Highlights

- 3D Structure Determination
- Computational Approaches in Structural Biology
- Hybrid Approaches for Structure Prediction
- Structural Biology and Single Molecules
- Sequencing
- Structural Biology Databases
- Cell Signalling
- Molecular Modelling and Simulation
- Drug Designing
- Structural Biology in Cancer Research
- Frontiers in Structural Biology
- Structural Biology Complexity Arenas
- Recent Advances in Structural Biology

Tentative Program

conferenceseries.com

9th International Conference on
Structural Biology

Structural Biology 2017

September 18-19, 2017 Zurich, Switzerland

Featured Speakers

Title: The centers of premeltons signal the beginning and ends of genes
Henry M. Sobell, University of Rochester, USA

Title: Membrane protein structure, dynamics & function: Oriented sample and magic angle sample spinning solid state NMR
Timothy A. Cross, Florida State University, USA

3 Keynote slots available

Title: Mechanical stability of talin rod controls traction force generation and cell migration
Vesa P. Hytönen, University of Tampere, Finland

Title: Structural insights into cholesterol regulation of inwardly-rectifying K+ channels
Irena Levitan, University of Illinois, USA

Title: Allosteric control of transcription regulation by nuclear receptors: an integrative structural biology approach
Dino Moras, IGBMC, France

Title: Transport protein superfamilies: Structure, function and evolution
Milton H. Saier, Jr., University of California at San Diego, USA

Title: Microrobotics enables non-contact, fully automated protein crystal harvesting
David F. Sargent, ETH Zurich, Switzerland

Title: Strategies to target protein-protein interactions
Marta Westwood, UCB Celltech, UK

Title: Cryo-Electron Microscopy Grid Preparation from Nanoliter-Sized Protein Samples and Single-Cell Extracts
Thomas Braun, University of Basel, Switzerland

Title: On two ways to predict the protein folding process over a chaotic model
Christophe Guyeux, Université de Bourgogne Franche-Comté, France

Title: Influence of water environment on protein structure
Irena Roterman, Jagiellonian University, Poland

Title: How Does Domain Motion Contribute to Transition-State Stabilization? Combinatorial Thermodynamic Cycle Analysis of Conformational Coupling During Tryptophan Activation
Charles W. Carter, University of North Carolina at Chapel Hill, USA

Title: Calcium, calmodulin and the plasma membrane calcium pump
Joachim Krebs, Max Planck Institute for Biophysical Chemistry, Germany

Title: An unbiased view of functional shifts and co-evolution across large protein families: Integrating computational and experimental approaches
Bryan Kolaczkowski, University of Florida, USA

Title: Achievements and challenges in computational protein design: from membrane protein parameterization to new functional proteins
Ilan Samish, Weizmann Institute of Science and Amai Proteins Ltd., Israel

Title: Structure of DdrB-DNA complex reveals mechanism for accurate DNA strand annealing
Murray Junop, Western University, Canada

Title: RNA structural biology: from global to detail
Yun-Xing Wang, National Institutes of Health, USA

5 speaker slots available

Title: Nanoscale structure and dynamics of centromere nucleosomes
Yuri L. Lyubchenko, University of Nebraska Medical Center, USA

Title: Monitoring protein structural changes on a proteome-wide scale
Paola Picotti, ETH Zurich, Switzerland

Title: Extract the thermodynamic and kinetic information from protein simulations using dimensionality reduction
Shuanghong Huo, Clark University, USA

Title: LD Motif Interacting networks in cell-matrix adhesion
Igor L. Barsukov, University of Liverpool, UK

Title: Solution NMR relaxation and µs Molecular Dynamics Simulations of Dynamic Protein-Protein and Protein-Membrane Complexes
Matthias Buck, Case Western Reserve University, USA

Title: Structural basis for PTPN3-p38gamma complex involved in colon cancer progression
Tzu-Ching Meng, Academia Sinica, Taiwan

Title: Structural Conformational changes report biased agonism: The case of Galanin receptors
Arfaxad Reyes Alcaraz, Korea University College of Medicine, South Korea

Title: Does the dynamics of their transmembrane domain qualify bitopic membrane proteins as substrates for intramembrane proteolysis?
Christina Scharnagl, Technical University of Munich, Germany

Title: Role of metavinculin in actin reorganization and force transmission
Sharon L. Campbell, University of North Carolina, USA

Title: Type I BIR domain inhibitors in cancer therapy: Designing drugs to modulate the NF-κB pathway
Federica Cossu, Institute of Biophysics at the National Research Council (IBF-CNR), Italy

Title: Structural biology of RAGE
Alex Shekhtman, State University of New York, USA

Title: Structural Plasticity allows for diversity in GTP hydrolysis mechanisms: Implications for GAP-dependent hydrolysis mechanisms for Rab proteins
Balaji Prakash, CSIR- Central Food Technological Research Institute, India

Title: Role of conformational equilibrium in molecular recognition and capsid assembly: The case of flavivirus capsid proteins
Fabio C. L. Almeida, Federal University of Rio de Janeiro, Brazil

Title: Investigation of allosteric coupling in human Beta2-adrenergic receptor (Beta2-AR) in the presence of intracellular loop 3
E. Demet Akten, Kadir Has University, Turkey

Title: The challenge of improve disease treatment with protein engineering. The contributions of X-ray crystallography
Stephanie Bath de Morais, FIOCRUZ, Brazil

Title: Genome variation and drug resistance: Effects of non-synonymous polymorphisms on Topoisomerase II α (Top2-α) drug interaction
Sadeq Vallian, University of Isfahan, Iran

6 speaker slots available

Last updated February 09, 2017

Glimpses of Structural Biology 2016





TOURIST DESTINATIONS IN ZURICH, SWITZERLAND



Baden



Bahnhofstrasse



Bellerive Museum



Paradeplatz



China Garden



Confiserie Sprüngli



Fraumünster



Ganymed



Giacometti Hall



Laufen Castle

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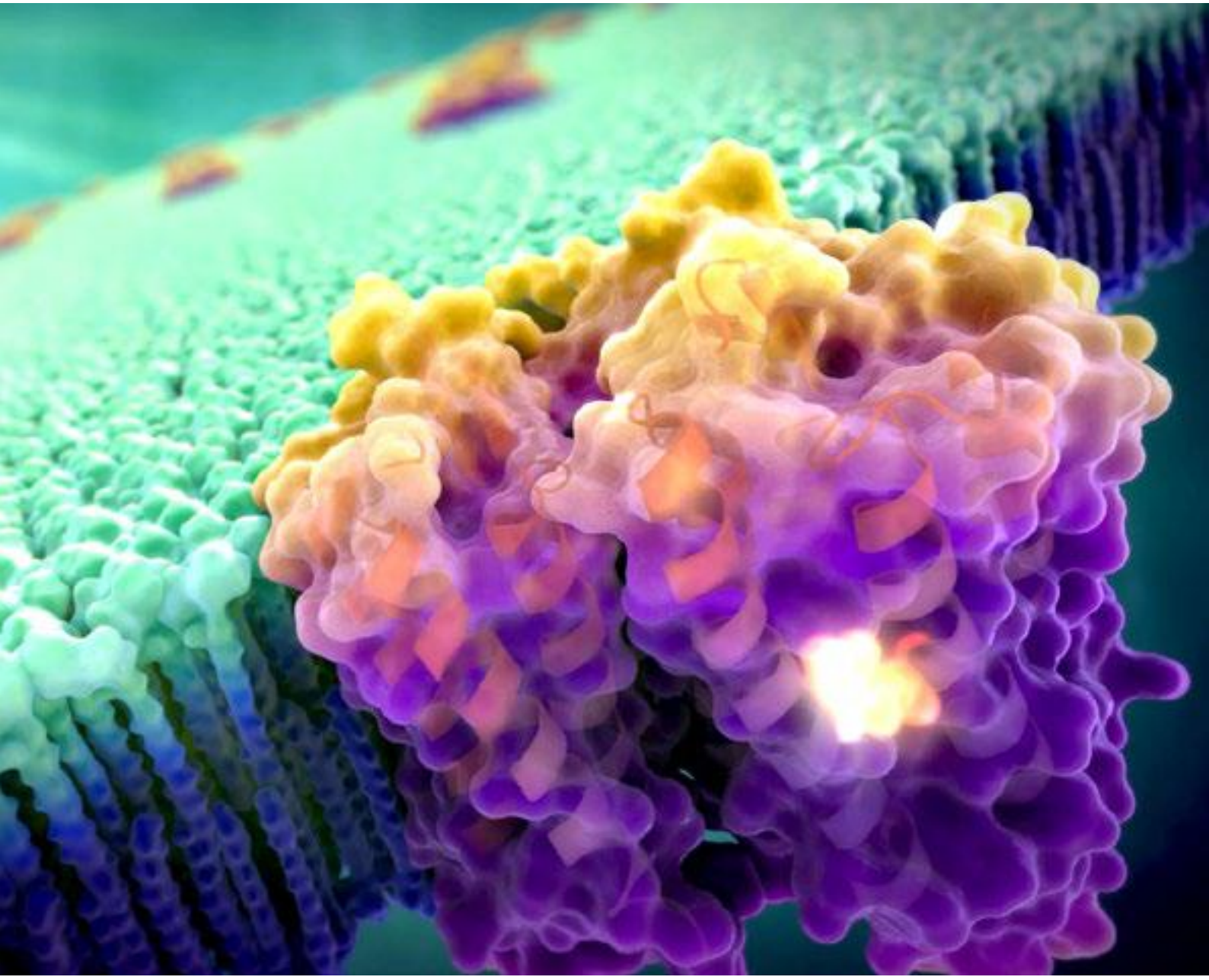
630th Conference

Scientific Program

6th International Conference on

STRUCTURAL BIOLOGY

August 22-23, 2016 New Orleans, USA



Hosting Organization: Conference Series LLC

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Scientific Program

Day 1 August 22, 2016

Registrations

Hall C

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Opening Ceremony

Keynote Forum

Introduction

Title: Comprehensive prediction of drug-protein interactions and side effects for the human proteome
Jeffrey Skolnick, Georgia Institute of Technology, USA

Symposium on "New technologies in structural studies by cryoEM"

Session Introduction

Session Chair: Qiu-Xing Jiang, University of Florida, USA
Session Co-Chair: Kenneth A Taylor, Florida State University, USA

Title: The structure of Zika virus
Michael G Rossmann, Purdue University, USA
Title: Random spherically constrained (RSC) single particle cryo-EM for structures of membrane proteins in a membrane environment
Liguo Wang, University of Washington, USA
Title: ChemiC: Chemically functionalized nanometer-thick carbon films for cryo-EM studies of biological complexes
Qiu-Xing Jiang, University of Florida, USA

Group Photo

Networking & Refreshments

Title: Deciphering intermolecular interactions in complex heterogeneous systems
Kenneth A Taylor, Florida State University, USA
Title: Breathing life into static images: Combining electron cryotomography and coarse-grained simulations to explore mechanisms of eukaryotic cell division machinery *in vivo*
Matthew T Swulius, California Institute of Technology, USA
Title: Advanced machine-learning algorithms for improving high-performance cryo-EM data analysis
Youdong Jack Mao, Harvard Medical School, USA

Lunch

Keynote Forum

Title: A personal history of structural virology
Michael G Rossmann, Purdue University, USA

Sessions: Structural Biology | 3 D Structure Prediction | Computational Approaches

Session Introduction

Session Chair: Fumio Hirata, Toyota Physical & Chemical Research Institute, Japan
Session Co-Chair: John H Miller, Victoria University of Wellington, New Zealand

Title: Tubulin structural interactions with small molecule microtubule-stabilizing agents
John H Miller, Victoria University of Wellington, New Zealand
Title: Molecular behavior of a higher-order complex of multiple transcription factors on enhancer site upon phosphorylation
Kazuhiro Ogata, Yokohama City University Graduate School of Medicine, Japan
Title: Structure, fluctuation, and function of biomolecules in solution explored by the 3D-RISM/RISM theory
Fumio Hirata, Toyota Physical & Chemical Research Institute, Japan
Title: Discovery of a GTP sensor using a structural reverse genetic approach
Toshiya Senda, High Energy Accelerator Research Organization (KEK), Japan
Title: Structural and synthetic biology of aminoacyl-tRNA synthesis and translation
Shigeyuki Yokoyama, RIKEN Structural Biology Laboratory, Japan

Networking & Refreshments

Sessions: Signalling Biology | Drug Designing | Sequencing

Session Introduction

Session Chair: Takeshi Kikuchi, Ritsumeikan University, Japan
Session Co-Chair: Elizabeth J Goldsmith, University of Texas Southwestern Medical Center at Dallas, USA

Title: Development of anti-HIV double variable domain antibodies that bind both gp120 and gp41 on the envelope protein
Seth Pincus, Children's Hospital and Louisiana State University School of Medicine, USA
Title: The excursion model for MAP kinase signaling in health and disease
Elizabeth J Goldsmith, University of Texas Southwestern Medical Center at Dallas, USA
Title: Sequence analysis on the information of folding nuclei in proteins with interesting 3D properties
Takeshi Kikuchi, Ritsumeikan University, Japan
Title: Ligand binding preferences of pathogenesis-related class 10 (pr-10) allergens
Barry K Hurlburt, United States Department of Agriculture, USA
Title: Genomes repetitive sequences in progressive evolution
Olga I Podgornaya, Far Eastern Federal University, Russia

Special Session on "Prediction of protein-protein interaction in the Twilight Zone"

Session Introduction

Session Chair: Thomas Scior, Benemérita Universidad Autónoma de Puebla, Mexico

Title: Prediction of protein-protein interaction in the twilight zone of low homology for the modulation of an ion channel: An analogy approach
Thomas Scior & Ángel Islas, Benemérita Universidad Autónoma de Puebla, Mexico

Panel Discussions

Day 2 August 23, 2016

Hall C

Keynote Forum

Title: The use of soft X-ray diffraction for native-SAD and for chromatic exploration of uncharted aspects of metals in macromolecules: A new pilot program at the APS
Bi-Cheng Wang, University of Georgia and Advanced Photon Source, USA
Title: How do voltage sensors in trans-membrane channels work?
Robert Stroud, University of California, San Francisco, USA

Special Session on "Modularity and metastability: Structural aspects of nanomedicine"

Session Chair: R Holland Cheng, University of California, Davis, USA
Session Co-Chair: Toshiya Senda, High Energy Accelerator Research Organization (KEK), Japan

Title: Modularity and metastability: Structural aspects of nanomedicine
R Holland Cheng, University of California, Davis, USA
Title: Structure and function of the C-terminal ID region of onco-protein CagA
Toshiya Senda, High Energy Accelerator Research Organization (KEK), Japan

Networking & Refreshments

Title: Talin - Insights into mechanosignalling and integrin activation
Vesa P Hytonen, University of Tampere, Finland
Title: Individual-Particle Electron Tomography (IPET): An approach to study flexible protein structure and dynamics
Gang Ren, Lawrence Berkeley National Laboratory, USA
Title: Integrated methods enable re-engineering of transcription factors allowing cell fate modification
Prasanna R Kolatkar, Hamad bin Khalifa University, Qatar
Title: A comprehensive strategy to obtain high quality crystals
Miki Senda, High Energy Accelerator Research Organization (KEK), Japan
Title: Symmetry ambiguity and its implications to the molecular functions of the MAVS prion-like filaments
Qiu-Xing Jiang, University of Florida, USA

Lunch

Title: Crystal structure of a human Fab in complex with a dominant antigen from Neisseria meningitidis
Jacinto López-Sagaseta, GlaxoSmithKline Vaccines S.r.l., Italy
Title: The atomic structures of Dragon grouper nervous necrosis virus from cryo-em in comparing with x-ray diffractions
Chan-Shing Lin, National Sun Yat-sen University, Taiwan

Sessions: Molecular Modelling | Complexity Arenas in Structural Biology | Structural Biology in Cancer

Session Introduction

Session Chair: Irena Roterman-Konieczna, Jagiellonian University, Poland
Session Co-Chair: Jyh-Yeuan Lee, University of Texas Southwestern Medical Center at Dallas, USA

Title: Impact of the water environment on protien folding
Irena Roterman-Konieczna, Jagiellonian University, Poland
Title: ABCG5/ABCG8: Structural role in ABC transporter-mediated sterol transport
Jyh-Yeuan Lee, University of Texas Southwestern Medical Center at Dallas, USA
Title: The molecular effects of processing on the peanut allergens
Soheila J Maleki, United States Department of Agriculture, USA

Title: Structural analysis of PTPN3-p38γ interactions by chemical cross-linking coupled with mass spectrometry
Tzu-Ching Meng, Academia Sinica, Taiwan

Networking & Refreshments

Title: Predicting the binding free energy of the inclusion process of Cyclodextrin derivatives and small molecules by means of MM/3D-RISM method
Masatake Sugita, Ritsumeikan University, Japan
Title: Is molecular docking the holy grail of computational modelling?
Ihosvany Camps, Federal University of Alfenas, Brazil
Title: Proton tunneling accelerates ATP hydrolysis in Eg5 kinesin
Sunyoung Kim, Louisiana State University School of Medicine & Health Sciences Center, USA
Title: Molecular docking of potent inhibitors of oncoproteins using Swiss dock and visualization by UCSF chimera
Mohammed Ahmed Mohammed Mansour, Tanta University, Egypt

Poster Presentations from

P01	**Title: In silico development of new acetylcholinesterase inhibitors** **Ihosvany Camps**, Federal University of Alfenas, Brazil
P02	**Title: Cation roles in the structure of a fish nodavirus observed in Electron Cryo-Microscopy and X-Ray diffraction** **Chan-Shing Lin**, National Sun Yat-sen University, Taiwan
P03	**Title: Estimation of binding free energy based on the MM/3D-RISM method for the Pim1-ligand system** **Takeshi Haesegawa**, Ritsumeikan University, Japan
P04	**Title: Motor domain β-sheet motifs contribute to diversification of kinesin-microtubule interactions** **Jessica Richard**, Louisiana State University School of Medicine & Health Sciences Center, USA
P05	**Title: SATB2 suppresses invadopodia formation in colorectal cancer cells via palladin inhibition** **Mohammed Ahmed Mohammed Mansour**, Tanta University faculty of Science, Egypt
P06	**Title: Folding region predictions by amino acid analysis of lysozyme superfamily proteins** **Takuto Nakashima**, Ritsumeikan University, Japan
P07	**Title: Small spatial motifs within a surface-exposed loop in kinesin motor proteins codes for mechanochemical coupling** **Rebecca Buckley**, Louisiana State University School of Medicine & Health Sciences Center, USA

Panel Discussion and Certificate Distribution