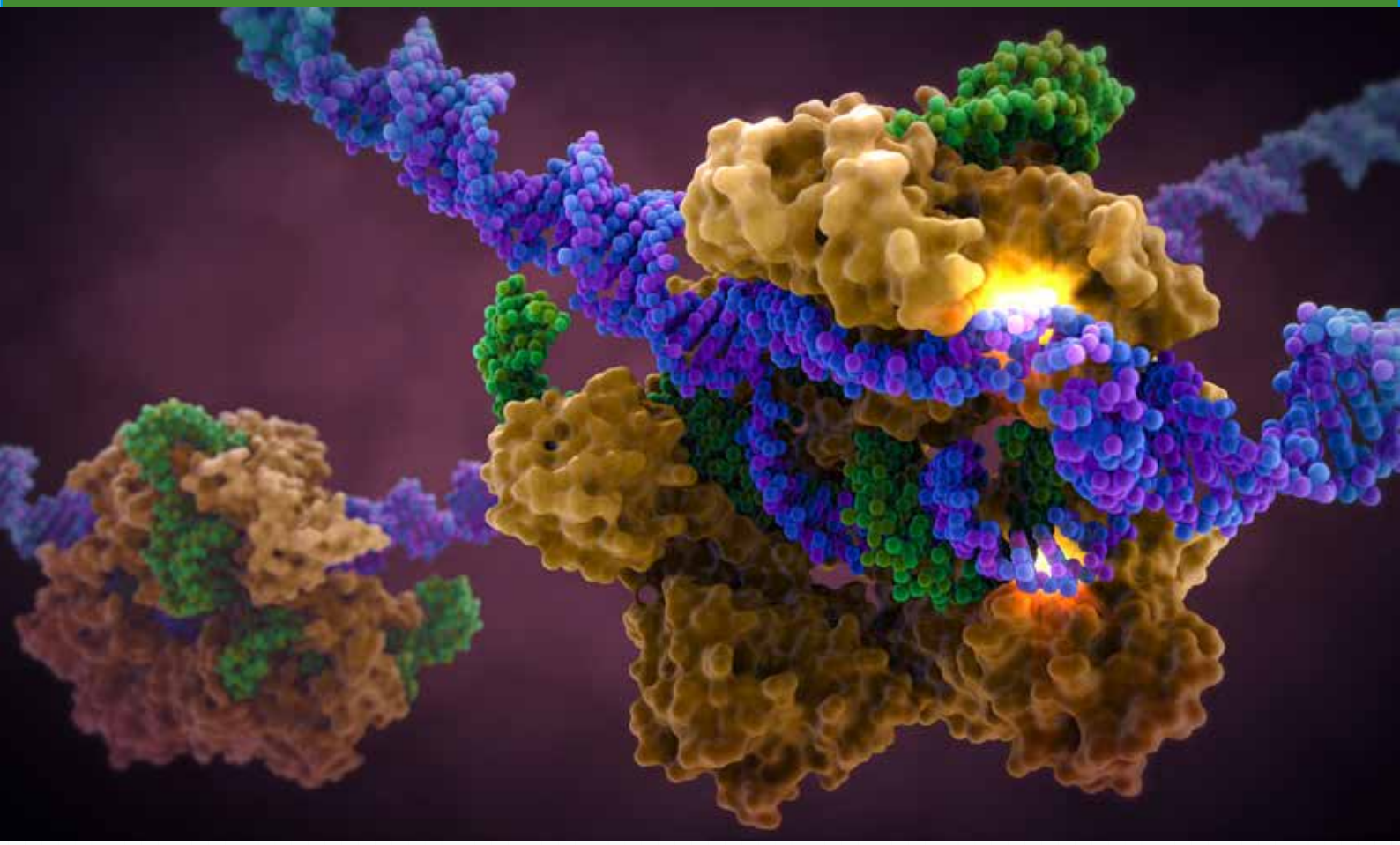
Tentative Program

9th International Conference on

Structural Biology

September 18-20, 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 18-20, 2017 Zurich, Switzerland

Venue: Hilton Zurich Airport

Featured Speakers

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

Title: Structures and functions of seven-transmembrane helix receptors
Shigeyuki Yokoyama, RIKEN Structural Biology Laboratory, Japan

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

Title: Structural biology of c-di-GMP mediated signaling
Tilman Schirmer, University of Basel, Switzerland

Title: Reproducibility in Biomedical Sciences - Big Data Perspective
Wladek Minor, University of Virginia, USA

Title: Protein-protein interaction and amyloid cascade hypothesis for Alzheimer's disease
Yuri L. Lyubchenko, University of Nebraska Medical Center, USA

Title: HIV-1 integrase assembles multiple discrete intasomes that are active for DNA integration in vitro
Robert Craigie, NIH, USA

Title: Dynamics of Biomolecules "In Action" Studied with X-ray Free Electron Lasers
Petra Fromme, Arizona State University, USA

Title: Structural insights from aptamers with base modifications
Nebojsa Janjic, SomaLogic, Inc., U.S.A.

Title: Designer Biologics: BMP Chimeras and their clinical potential
Senyon Teddy Choe, Mogam Institute, Korea and University of California San Diego, USA

Title: Atomic Force Microscopy of virus capsids uncover the interplay between mechanics, structure and function
Pedro J. de Pablo, Universidad Autonoma de Madrid, Spain

Title: Structure Based Drug Discovery on Membrane Protein Targets: New developments and advancements
Michael Hennig, leadXpro AG, Switzerland

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

between mechanics, structure and function
Pedro J. de Pablo, Universidad Autonoma de Madrid, Spain

Title: Investigation of functional dynamics through high-power relaxation dispersion NMR
Donghan Lee, University of Louisville, USA

Title: The dynamics of a protein during its insertion into a membrane
Andreas Kuhn, University of Hohenheim, Germany

Title: Deciphering and filming molecular recognition at the nano-scale with AFM
Peter Hinterdorfer, Johannes Kepler University Linz , Austria

Title: Streaming pipeline for high-resolution single-particle cryo-EM
Dominika Elmlund, Monash University, Australia

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

5 speaker slots available

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

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

ATPase
Karim Fahmy, Helmholtz-Zentrum Dresden-Rossendorf, Germany

Title: Functional protein conformation networks probed by NMR nanorulers
Beat Vögeli, University of Colorado at Denver, USA

Title: Calcium- binding protein modulates cytoskeletal dynamics via elevation of the monomeric myosin IIA
Marina Kriajevska, University of Leicester, Leicester, UK

Title: Structural and dynamic studies of DENV and ZIKV proteases and its insight into inhibitor design
CongBao Kang, Agency for Science, Technology and Research (A*STAR), Singapore

Title: Structural Biology of Arf and Rab GTPases' Effector Recruitment and specificity
Marina Kriajevska, University of Leicester, Leicester, UK

Title: Conformational dynamics revealed by ensemble cryo-EM
Andrei Korostelev, UMass Medical School, Worcester, MA, USA

Title: The structure of chromatin; single-molecule experiments on model fibers and real genes
John van Noort, Leiden University, The Netherlands

Title: Dynamics of knotted and entangled neurotoxic polypeptides
Marek Cieplak, Institute of Physics PAS, Poland

Title: Construction of Structural Mimetics of the Thyrotropin Receptor Intracellular Domain
Stanislav Engel, Ben-Gurion University, Israel

Title: Monitoring the antagonist-protein and protein-protein interactions with NMR and X-ray: Inhibitors of p53/Mdm2 and immune checkpoints PD-1/PD-L1
Tad A. Holak, Jagiellonian University, Poland

Title: An Atomistic View of Microtubule Stabilization by GTP
Liliane Mouawad, Institut Curie, France

3 speaker slots available

Title: Protein Machinery Regulating the Synaptic Vesicle Fusion
Maria Bykhovskaia, Wayne State University, USA

Title: Photoinduced electron transfer in cytochrome bc1: Kinetics of ubiquinone transfer from the Qo site to the Qi site, and evidence for communication between the monomers in the dimer
Francis Millett, University of Arkansas, USA

Title: Inter-domain communication through intrinsically disordered region (IDR) revealed through the ensemble structure analysis
Shin-ichi Tate, Hiroshima University, JAPAN

Title: Mapping energy transfer channels in fucoxanthin–chlorophyll protein complex
Leonas Valkunas, Vilnius university, Lithuania

Title: PIP2 modulation of KCNQ1 channels
Jianmin Cui, Washington University in St. Louis, USA

Title: Elastic propagating waves originating from the interaction between organ of Corti micro-structures and the active outer hair cells
Jong-Hoon Nam, University of Rochester, USA

Title: Microscopic calculation of conformational thermodynamics in bio-macromolecular complexes
J. Chakrabarti , S. N. Bose National Centre for Basic Sciences, India

Title: Molecular mechanism of SHP2 activation by CagA from Helicobacter pylori

Miki Senda, High Energy Accelerator Research Organization (KEK), Japan

Title: The native (Sulfur) SAD method in Photon Factory
Toshiya Senda, High Energy Accelerator Research Organization (KEK), Japan

Title: Exploring conformational equilibria of a heterodimeric ABC transporter by electron paramagnetic resonance
Enrica Bordignon, Ruhr-Universität Bochum, Germany

Title: Structural Basis of Sodium/Citrate Symporter as a Secondary Transporter
Mi Sun Jin, GIST, Republic of Korea

Title: Structural mechanisms of ligand-dependent activation in class C GPCRs
Qing R. Fan, Columbia University, USA

Title: A new protocol to investigate conformational population patterns in the enzymatic activity cycle of proteins using molecular dynamics and normal mode analysis
Luis Paulo. B. Scott, Universidade Federal do ABC , Brazil

Title: Quantitative Protein Kinetics From Single Molecule Time Traces
Sonja Schmid, University of Freiburg, Germany

Title: Probing protein self-assembly and misassembly in small volumes
Tuomas Knowles, University of Cambridge, UK

Title: Structural analysis of Vascular Endothelial Growth Factor receptors reveals drug-targetable allosteric sites regulating angiogenesis
Kurt Ballmer-Hofer, Paul Scherrer Institut, Switzerland

Title: Structure of Dimeric and Tetrameric Complexes of the BAR Domain Protein PICK1 Determined by Small-Angle X-Ray Scattering
Kenneth L. Madsen, University of Copenhagen, Denmark

Title: Generation of long acting therapies using glycosylated linkers
Abdulrahman Alshehri, University of Sheffield, UK

Title: The NMR Studies of the Interaction between Polysialic Acid (polySA) and the PSTD Peptide in ST8Sia IV Polysialytranseferase
Guo-Ping Zhou, Gordon Life Science Institute, USA

Title: What docking studies tell us about the role of disordered protein fragments in macromolecular assembly
Chantal Prévost, CNRS, France

Title: Oxidative stress, methionine oxidation, and calmodulin structure and function
Jeffrey L Urbauer, The University of Georgia, USA

Title: High-speed optical tweezers for the study of protein-DNA interaction
Marco Capitanio, University of Florence, Italy

Title: Structure of the human, Fic-domain containing protein HYPE and links to protein folding homeostasis
Matilda Katan, UCL, UK

Title: Complex Structure of Mammalian Cytochrome c–Cytochrome c Oxidase Reveals a Novel Protein-Protein Interaction Mode
Kyoko Shinzawa-Itoh, Hyogo University, Japan

Title: Structure and function of a Chloride Pump Rhodopsin from marine bacteria
Hyun-Soo Cho, Yonsei University, Korea

Title: A structure complex of a bacterial effort and an interacting protein: insights into the transfer of virulence effector by pathogenic bacteria
Jianyong Li, Virginia Tech, USA

Title: Understanding Differential Selectivity of Arrestins toward the Phosphorylation State of G-protein-coupled Receptors
Ozge Sensoy, Istanbul Medipol University, Turkey

Title: Zinc-metalloproteinase inhibitors: complex interplay between cooperative interactions and dynamics properties imposed by the zinc-binding group
Vincent Dive, CEA, France

Title: Nanobody-enabled investigation of GPCR transmembrane signalling: from structure to function to drugs
Jan Steyaert, VIB-VUB Center for Structural Biology, Belgium

Title: New insights into pRN1 priming: structural changes support specific DNA recognition and catalysis
Julien Boudet, ETH-Hönggerberg, Switzerland

Title: Structural basis for gating, activation and regulation of RyR1 using cryo-electron microscopy
Amedee des Georges, CUNY ASRC, USA

Title: Structure-Based Drug Design of the Eg5 Inhibitor NVP-BQS481
Dirksen E. Bussiere, Novartis Institutes for BioMedical Research, USA

Title: Structural characterisation of a new class of hybrid secretion system employed in Pseudomonas amyloid biogenesis
Stephen Matthews, Imperial College London, UK

Title: How Conformational Dynamics Descriptors may help in remodeling of allosteric Regulation in Proteins
Luba Tchertanov, CMLA ENS Cachan, France

Title: Characterization of the bacterial winged-helix domain of RecQ helicase. A novel antibacterial target
Tököli A., University of Szeged, Hungary

Title: Structural mechanism of partial agonists and antagonists of PPARgamma for use as antidiabetics
John B. Bruning, The University of Adelaide, Australia

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 and molecular dynamics analysis of the super secondary motifs from TIM barrel proteins: Implications for folding and engineering of foldable building blocks for the assembly of TIMs
Ramakrishna Vadrevu, Birla Institute of Technology and Science, 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

Young Research Forum
Poster Presentations
Award Ceremony

Last updated 19-06-2017

Glimpses of Structural Biology 2016





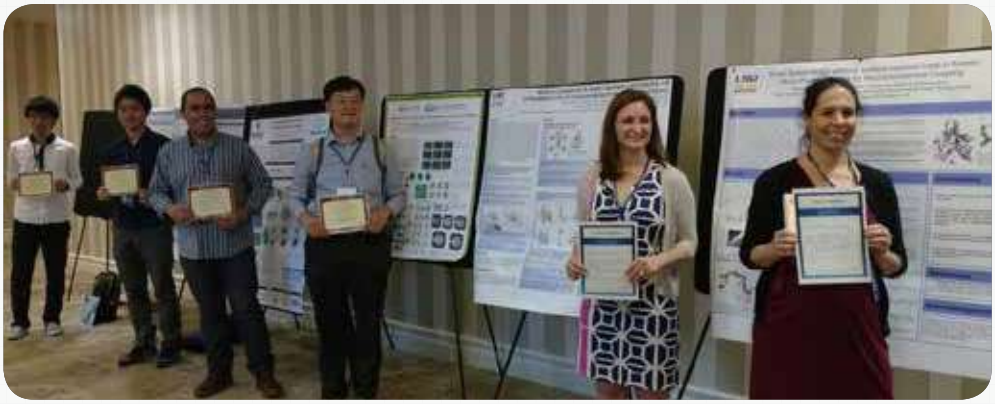


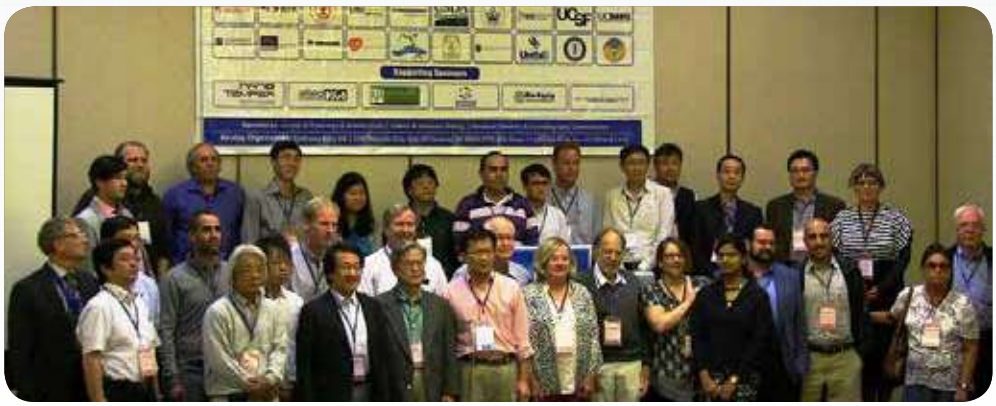














TOURIST DESTINATIONS IN ZURICH, SWITZERLAND



Historical-Bridge, Zurich



Lake view



Lucerne-Zurich



Opera House, Zurich



Rhine Falls, Zurich



Swiss Alpssm, Zurich



The Zurich Trolley



Mount Titlis

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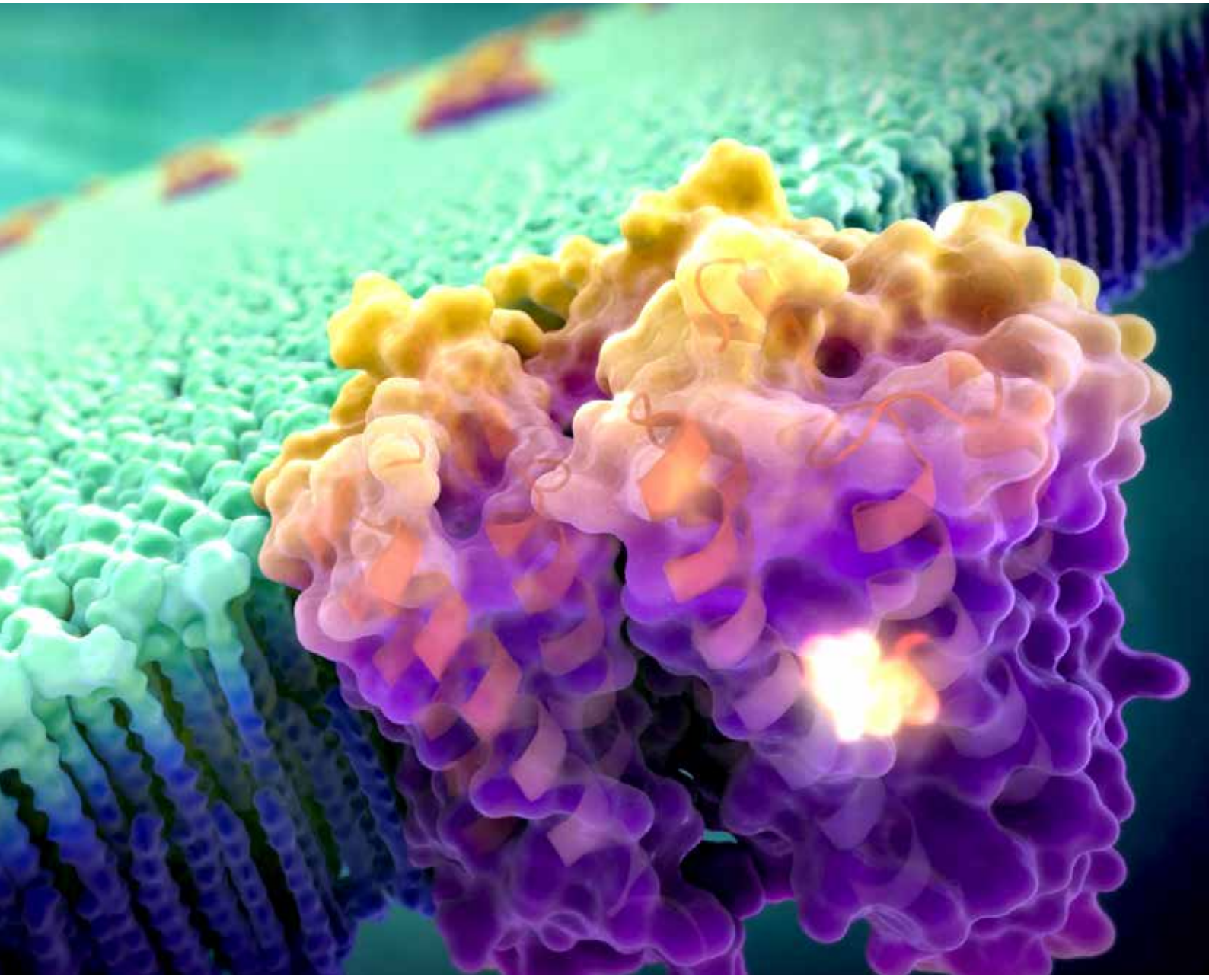
630th Conference

Scientific Program

6th International Conference on

STRUCTURAL BIOLOGY

August 22-23, 2016 New Orleans, USA



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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