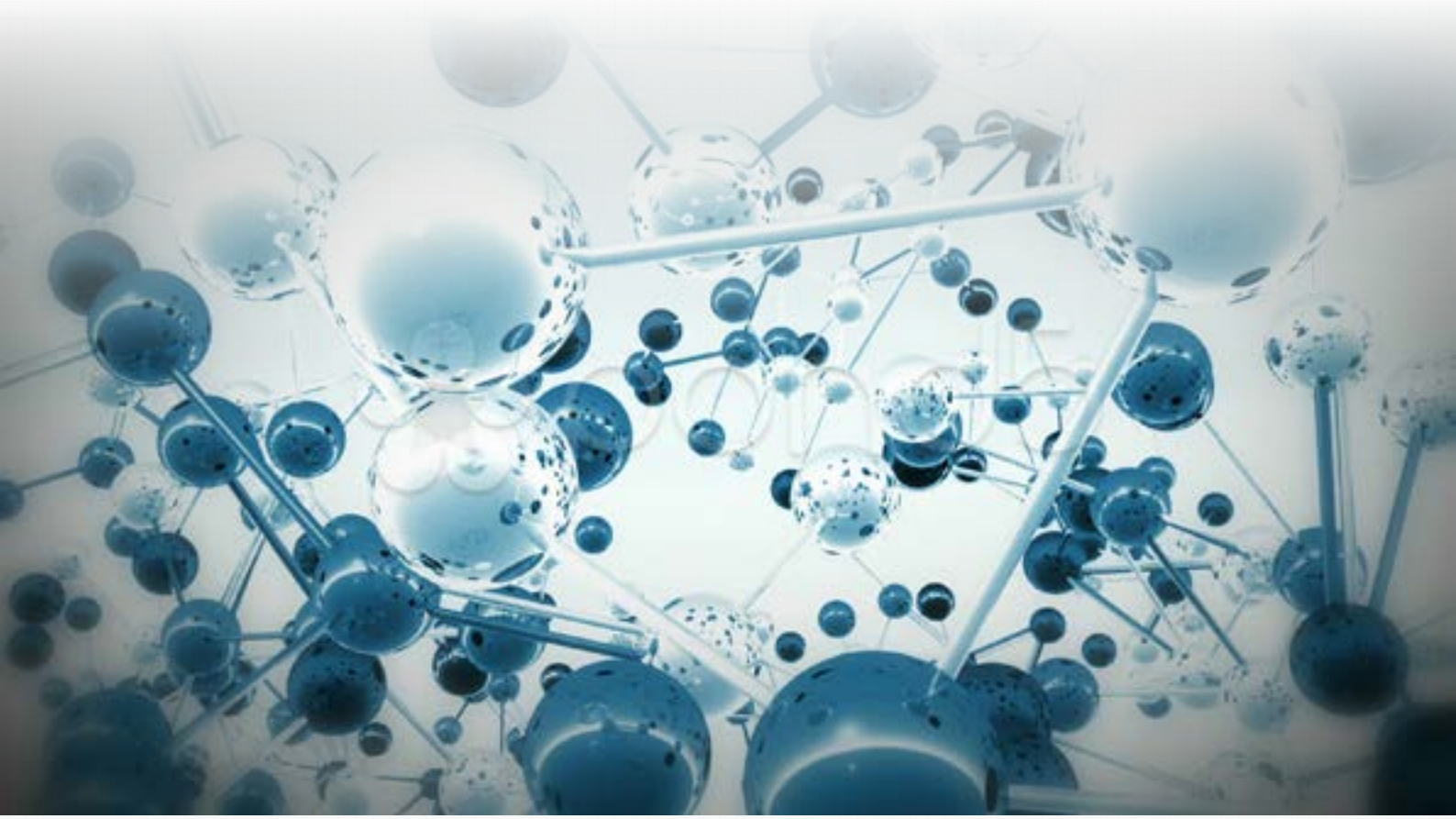
Tentative Program

14th International Conference on
Structural Biology

September 24-26, 2018 Berlin, Germany



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300+ Participation

12+ Interactive Sessions	15+ Keynote Lectures	75+ Plenary Lectures	5+ Workshops

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Tentative Program

14th International Conference on

Structural Biology

September 24-26, 2018 Berlin, Germany

Program at A Glance

Day 1

	Reception/Registration	08.00-09.00	
Morning Sessions	Least of 3 Keynote/Plenary	Time	General Session
		09.00-09.15	Inaugural Address
		09.15-09.45	Keynote/Plenary Talk 1
		09.45-10.15	Keynote/Plenary Talk 2
		10.15-10.45	Keynote/Plenary Talk 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
		11.00-12.40	Oral Presentations
	Lunch Break 12.40-13.30		
Evening Sessions		13.30-15.30	Oral Presentations
	Coffee/Tea Break 15.30-15.45 (Networking)		
		15.45-17.25	Workshop

Day 2

Morning Sessions	Least of 3 Keynote/Plenary	Time	General Session
		09.00-09.15	Inaugural Address
		09.15-09.45	Keynote/Plenary Talk 1
		09.45-10.15	Keynote/Plenary Talk 2
		10.15-10.45	Keynote/Plenary Talk 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
		11.00-12.40	Oral Presentations
	Lunch Break 12.40-13.30		
Evening Sessions		13.30-15.30	Oral Presentations
	Coffee/Tea Break 15.30-15.45 (Networking)		
		15.45-17.25	Workshop

Day 3

Morning Sessions	Time	Session 1	Session 2
	09.00-10.40	Oral Presentations	
	Coffee/Tea Break 10.40-10.55 (Networking)		
	10.55-12.35	Oral Presentations	
	Lunch Break 12.35-13.25		
Evening Sessions	13.25-15.05	Oral Presentations	
	Coffee/Tea Break 15.05-15.20 (Networking)		
	15.20-17.00	Oral Presentations	

NOTE: Program Schedule is subject to change with final allotment of the speaker slots

Major Scientific Sessions

- Structural Biology
- Determination of 3D structures
- Computational Approaches in Structural Biology
- Structure Prediction by Hybrid Approach
- Sequence Analysis
- Structural Enzymology
- Structural Biology Databases
- Structural Biology in Cell Signalling
- Molecular Modelling
- Molecular Dynamics
- Structural Biology in Drug Design
- Frontiers in Structural Biology
- Structural Biology in Cancer Research
- Structural Biology Complexity Arenas
- Recent Advancements in Structural Biology

Best Poster Award

- You will be given about 5-7 minutes to present your poster including questions and answers. Judges may pose questions during the evaluation of the poster
- Judges will even evaluate the student's enthusiasm towards their study, interest and knowledge in the area of their research
- The winners will be announced at the closing ceremony of the conference. The decision of the winner will be withdrawn if the winner/winners is/are not present at the time of announcement
- Apart from the judging time you may also be present at the poster to share your research with interested delegates

Young Researchers Forum

- Present your research through oral presentations
- Learn about career development and the latest research tools and technologies in your field
- This forum will give pertinent and timely information to those who conduct research and those who use and benefit from research
- Develop a foundation for collaboration among young researchers
- The forum will provide an opportunity for collegial interaction with other young investigators and established senior investigators across the globe
- Interact and share ideas with both peers and mentors

General Queries
structuralbiology@biochemconferences.org

Conference Venue

Berlin, Germany

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Glimpses Of Structural Biology Conference

Plan your trip to Berlin

Brandenburg gate

Berlin Victory Column

Bode Museum

Alte-Nationalgalerie

Charlottenburg Palace

Fernsehturm

Kaiser Wilhelm Memorial Church

Reichstag building

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1188th Conference

Scientific Program

9th International Conference on

STRUCTURAL BIOLOGY

September 18-20, 2017 Zurich, Switzerland

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47 Churchfield Road, London, W3 6AY
Toll Free: +0-800-014-8923

Registrations

Hall: London A+B

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Opening Ceremony

Keynote Forum

Introduction

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: Structural biology of c-di-GMP mediated signaling

Tilman Schirmer, University of Basel, Switzerland

Networking and Refreshments Break

Group Photo

Special Session on Structural Biology and Single Molecules

Session Chair: Yuri L Lyubchenko, University of Nebraska Medical Center, USA

Session Introduction

Title: Nanoscale structure and dynamics of centromere nucleosomes

Yuri L Lyubchenko, University of Nebraska Medical Center, USA

Title: The structure of chromatin; single-molecule experiments on model fibers and real genes

John van Noort, Leiden University, The Netherlands

Title: Deciphering and filming molecular recognition at the nano-scale with AFM

Peter Hinterdorfer, Johannes Kepler University Linz , Austria

Title: High-speed optical tweezers for the study of protein-DNA interaction

Marco Capitanio, University of Florence, Italy

Title: Sliding sleeves of XRCC4–XLF bridge DNA and connect fragments of broken DNA

Gijs Wuite, Vrije Universiteit Amsterdam, The Netherlands

Title: New applications of boxed molecular dynamics. Atomistic simulations of atomic force microscopy experiments and peptide cyclization

Dmitrii V Shalashilin, University of Leeds, UK

Lunch Break

Hall: London A+B

Sessions: Recent Advances in Structural Biology

Session Chair: Robert Craigie, NIH, USA

Session Co-chair: Toshiya Senda, High Energy Accelerator Research Organization (KEK), Japan

Session Introduction

Title: Structural insights from aptamers with base modifications

Nebojsa Janjic, SomaLogic, Inc., USA

Title: HIV-1 integrase assembles multiple discrete intasomes that are active for DNA integration *in vitro*

Robert Craigie, National Institutes of Health, USA

Title: Allosteric control of transcription regulation by nuclear receptors: An integrative structural biology approach

Dino Moras, IGBMC, France

Title: Complexes of malaria parasite and human proteins drive formation of cytoadherent assemblies at the surface of infected red blood cells

John Vakonakis, University of Oxford, United Kingdom

Title: Microrobotics enables non-contact, fully automated protein crystal harvesting

David Sargent, ETH Zurich, Switzerland

Title: The native (Sulfur) SAD method in Photon Factory
Toshiya Senda, High Energy Accelerator Research Organization (KEK), Japan
Title: Structural mechanisms of nucleosome recognition as revealed by methyl-TROSY
Yawen Bai, National Institutes of Health, USA
Title: New insights into pRN1 priming: Structural changes support specific DNA recognition and catalysis
Julien Boudet, ETH-Hönggerberg, Switzerland
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: Cryo-electron microscopy grid preparation from nanoliter-sized protein samples and single-cell extracts
Thomas Braun, University of Basel, Switzerland

Networking and Refreshments Break

Sessions: Molecular Modelling and Drug Designing
Session Chair: Christina Scharnagl, Technical University of Munich, Germany
Session Co-chair: Shuanghong Huo, Clark University, USA

Session Introduction

Title: Structure based drug discovery on membrane protein targets: New developments and advancements
Michael Hennig, leadXpro AG, Switzerland
Title: Structure-based drug design of the Eg5 inhibitor NVP-BQS481
Dirksen E. Bussiere, Novartis Institutes for BioMedical Research, USA
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: The dynamics of a protein during its insertion into a membrane
Andreas Kuhn, University of Hohenheim, Germany
Title: Extract the thermodynamic and kinetic information from protein simulations using dimensionality reduction
Shuanghong Huo, Clark University, USA
Title: Dynamics of knotted and entangled neurotoxic polypeptides
Marek Cieplak, Institute of Physics PAS, Poland
Title: What docking studies tell us about the role of disordered protein fragments in macromolecular assembly
Chantal Prévost, CNRS, France

Hall: Athens

Sessions: 3 Dimensional Structure Determination | Computational Approaches | Structural Molecular Biology
Session Chair: Kurt Ballmer-Hofer, Paul Scherrer Institut, Switzerland
Session Co-chair: Jianyong Li, Virginia Tech, USA

Session Introduction

Title: Structural analysis of vascular endothelial growth factor receptors reveals drug-targetable allosteric sites regulating angiogenesis
Kurt Ballmer-Hofer, Paul Scherrer Institut, Switzerland
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: Complex structure of mammalian cytochrome c–cytochrome c oxidase reveals a novel protein-protein interaction mode
Kyoko Shinzawa-Itoh, Hyogo University, Japan
Title: Oxidative stress, methionine oxidation, and calmodulin structure and function
Jeffrey L Urbauer, The University of Georgia, USA

Title: Molecular mechanism of SHP2 activation by CagA from *Helicobacter pylori*
Miki Senda, High Energy Accelerator Research Organization (KEK), Japan
Title: Integrative approaches to study the structure and motions of DNA sliding clamps
Alfredo De Biasio, Elettra-Sincrotrone Trieste, Italy
Title: An atomistic view of microtubule stabilization by GTP
Liliane Mouawad, Institut Curie, France
Title: Structure and function of a chloride pump rhodopsin from marine bacteria
Hyun-Soo Cho, Yonsei University, South Korea
Title: Construction of structural mimetics of the thyrotropin receptor intracellular domain
Stanislav Engel, Ben-Gurion University, Israel
Title: Structural basis of sodium/citrate symporter as a secondary transporter
Mi Sun Jin, Gwangju Institute of Science and Technology, South Korea

Networking and Refreshments Break

Sessions: Frontiers in Structural Biology

Session Chair: Petra Fromme, Arizona State University, USA
Session Co-chair: Maria Bykhovskaia, Wayne State University, USA

Session Introduction

Title: Dynamics of biomolecules "In Action" studied with X-ray free electron lasers
Petra Fromme, Arizona State University, USA
Title: Protein machinery regulating the synaptic vesicle fusion
Maria Bykhovskaia, Wayne State University, USA
Title: Designer Biologics: BMP Chimeras and their clinical potential
Senyon Teddy Choe, Mogam Institute, Korea and University of California San Diego, USA
Title: Structural mechanism of partial agonists and antagonists of PPARgamma for use as antidiabetics
John B Bruning, The University of Adelaide, Australia
Title: How conformational dynamics descriptors may help in remodeling of allosteric regulation in proteins
Luba Tchertanov, CMLA ENS, France
Title: Study on the conformational transition between the alternative and collapsed form of prethrombin-2: Targeted molecular dynamics and free energy sampling
Sangwook Wu, Pukyong National University, South Korea
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

Panel Discussion

Day 2 September 19, 2017

Hall: London A+B

Keynote Forum

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

Networking and Refreshments Break

Special Session on Structural Biology of Biomembranes

Session Chair: Qiu-Xing Jiang, University of Florida, USA

Session Introduction

Title: Mechanisms underlying lipid-sensing by the nicotinic acetylcholine receptor in both normal and diseased states
John E. Baenziger, University of Ottawa, Canada
Title: When structure leads to function: Protein complexes at the membrane in endocytosis
Carsten Mim, KTH Royal Institute of Technology, Sweden
Title: Role of the nucleotidyl cyclase helical domain in catalytically active dimer formation
Volodymyr M Korkhov, Paul Scherrer Institute, Switzerland
Title: Structural basis for the lipid-dependent gating of a Kv channel
Qiu-Xing Jiang, University of Florida, USA

Lunch Break

Hall: London A+B

Sessions: Structural Biology in Complexity Arenas
Session Chair: Charles W. Carter, Jr, University of North Carolina at Chapel Hill, USA
Session Co-Chair: Ulf Skoglund, Okinawa Institute of Science and Technology, Japan

Session Introduction

Title: How does domain motion contribute to transition-state stabilization? Combinatorial thermodynamic cycle analysis of conformational coupling during tryptophan activation
Charles W. Carter, Jr, University of North Carolina at Chapel Hill, USA
Title: Structure of Human IgM in complex with the Malaria protein PfEMP1
Ulf Skoglund, Okinawa Institute of Science and Technology, Japan
Title: Is nucleoid complexity hence cell diameter limited by the eclipse?
Arieh Zaritsky, Ben-Gurion University of the Negev, Israel
Title: Inter-domain communication through intrinsically disordered region (IDR) revealed through the ensemble structure analysis
Shin-ichi Tate, Hiroshima University, Japan
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: Functional protein conformation networks probed by NMR nanorulers
Beat Vögeli, University of Colorado at Denver, USA
Title: On two ways to predict the protein folding process over a chaotic model
Christophe Guyeux, Université de Bourgogne Franche-Comté, France
Title: Antibodies as research tools to find new chemical matter
Marta Westwood, UCB Celltech, UK
Title: Structural genomics of integral membrane proteins - Past successes and future directions
Brian Kloss, New York Structural Biology Center, USA

Networking and Refreshments Break

Title: Geometrical principles of homeric β-barrels and β-helices: Applications to modelling amyloid protofilaments
Steven Hayward, University of East Anglia, UK
Title: Exploring conformational equilibria of a heterodimeric ABC transporter by electron paramagnetic resonance
Enrica Bordignon, Ruhr-Universität Bochum, Germany
Title: Microscopic calculation of conformational thermodynamics in bio-macromolecular complexes
J Chakrabarti, S. N. Bose National Centre for Basic Sciences, India

Hall: Athens

Sessions: Signalling Biology
Session Chair: Joachim Krebs, Max Planck Institute for Biophysical Chemistry, Germany
Session Co-Chair: Vesa P Hytönen, University of Tampere, Finland

Session Introduction

Title: Calcium, calmodulin and the plasma membrane calcium pump
Joachim Krebs, Max Planck Institute for Biophysical Chemistry, Germany
Title: Structural insights into cholesterol regulation of inwardly-rectifying K+ channels
Irena Levitan, University of Illinois, USA
Title: Structural aspects of cell signaling
Carol A Heckman, Bowling Green State University, USA
Title: Mechanical stability of Talin Rod controls traction force generation and cell migration
Vesa P. Hytönen, University of Tampere, Finland
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: 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: LD motif interacting networks in cell-matrix adhesion
Igor L. Barsukov, University of Liverpool, UK
Title: Structural conformational changes report biased agonism: The case of Galanin receptors
Arfaxad Reyes Alcaraz, Korea University, South Korea

Networking and Refreshments Break

Title: A biophysical and structural approach to investigate calcium sensor properties of plant calmodulin-like proteins
Alessandra Astegno, University of Verona, Italy
Title: Structural insights into the mechanism of how polyphenols suppresses amyloid fibrillation
He Jianwei, Liaoning University, China
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

Poster Presentations

Workshop on Solutions for studying protein complexes in structural biology and drug development by Tobias Pfluger, NanoTemper Technologies, Germany
@ Hall: London A+B @

Day 3 September 20, 2017

Hall: London A+B

Sessions: Structural Biology in Cancer Research | Current Trends

Session Chair: Guo-Ping Zhou, Gordon Life Science Institute, Boston, USA
Session Co-Chair: Tzu-Ching Meng, Academia Sinica, Taiwan

Session Introduction

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, Boston, USA
Title: Understanding differential selectivity of arrestins toward the phosphorylation state of G-protein-coupled receptors
Ozge Sensoy, Istanbul Medipol University, Turkey
Title: Structural basis for the cooperative allosteric activation of the free fatty acid receptor GPR40
Stephen M Soisson, Merck Research Laboratories, USA
Title: Conformational dynamics revealed by ensemble cryo-EM
Andrei Korostelev, UMass Medical School, USA

Networking and Refreshments Break

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

Title: Holliday junction resolvase GEN1 functions as a versatile DNA sensor and processor
Christian Biertümpfel, Max Planck Institute of Biochemistry, Germany
Title: Monitoring protein structural changes on a proteome-wide scale
Paola Picotti, ETH Zurich, Switzerland
Title: Slow domain reconfiguration causes power law kinetics in a two-state enzyme
Hagen Hofmann, Weizmann Institute of Science, Israel
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: Assembly mechanism of foreign dsDNA-sensing inflammasomes
Jungsan Sohn, Johns Hopkins University, USA

Lunch Break

Hall: London A+B

Title: Functional divergence in protein families: A co-variation analysis
Marie Chabbert, University of Angers, France
Title: RNA-binding domain disorder modulates the RNA destabilizing activity in the TTP family of proteins
Francesca Massi, University of Massachusetts Medical School, USA
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: Integrative approaches for variant interpretation in coding regions
Sushant Kumar, Yale University, USA
Title: Generation of long acting therapies using glycosylated linkers
Abdulrahman Alshehri, University of Sheffield, UK
Title: Hydrogen bond interaction with trypanosomal adenosine kinase; ornithine decarboxylase and triose phosphate isomerase could not be involved in the antitrypanosomal activity of stigmasterol: An *in silico* study
Aminu Mohammed, Ahmadu Bello University, Nigeria

Hall: Athens

Young Researchers Forum

Title: XFEL structures of the M2 proton channel of influenza A reveal pH-dependent water networks under room temperature conditions
Jessica L Thomaston, UCSF, USA
Title: Crystal structure of DNA-Binding Domain-CbnR with its promoter reveals the basis of the LysR-Type Transcriptional Regulator recognition
Maharani Pertiwi Koentjoro, Gifu University, Japan
Title: Delivery methods for Free Electron Lasers: direct protein crystallization on solid supports economizes sample consumption in serial femtosecond crystallography
Nadia L Opara, Paul Scherrer Institute, Switzerland
Title: The challenge of improve disease treatment with protein engineering. The contributions of X-ray crystallography
Stephanie Bath de Morais, FIOCRUZ, Brazil

Award Ceremony @ Hall: London A+B

Networking and Refreshments Break

Bookmark your dates

14th International Conference on

Structural Biology

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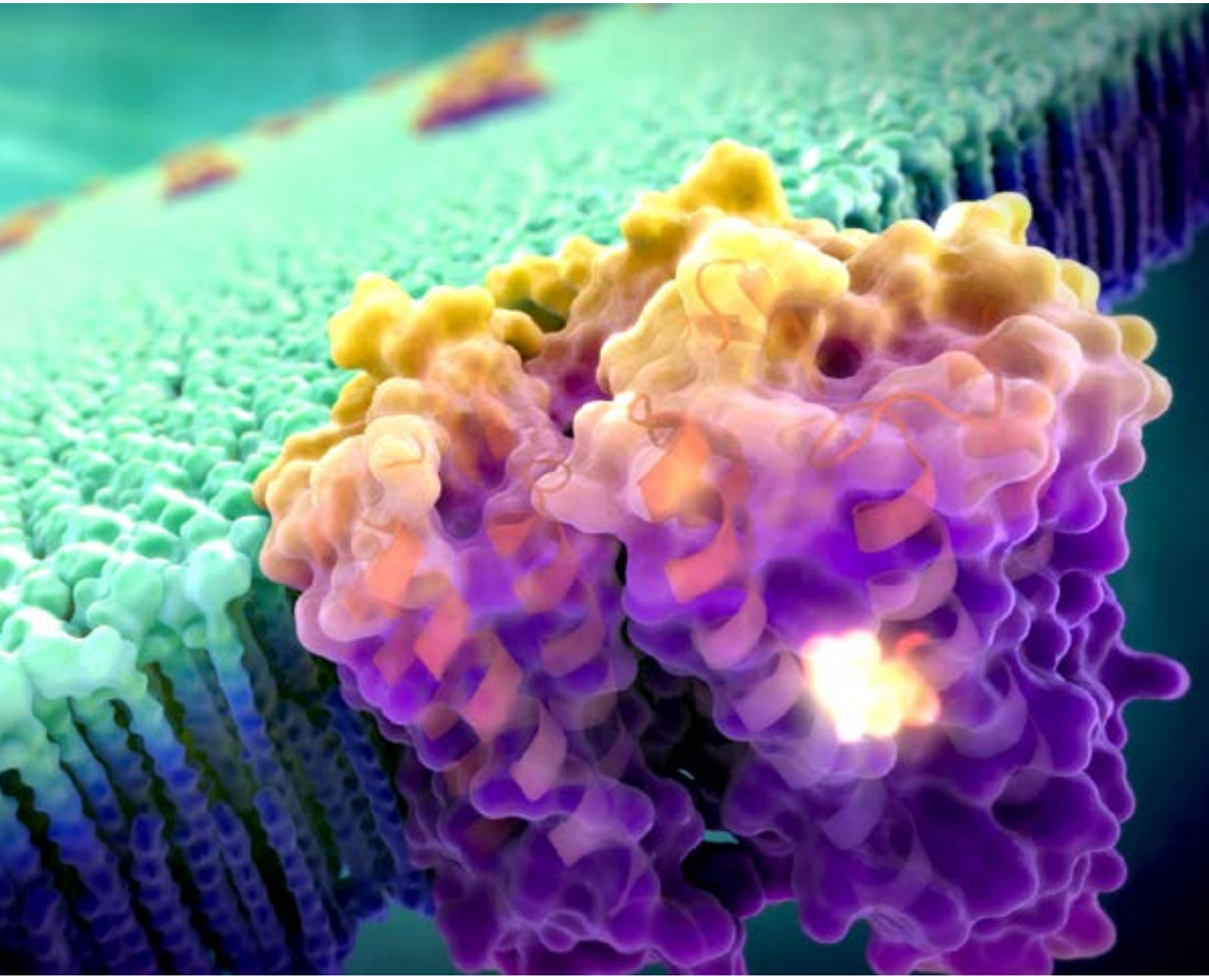
630th Conference

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