



# The 13<sup>th</sup> Conference of the Asian Crystallographic Association

05<sup>th</sup> - 08<sup>th</sup> Dec 2015 | Science City, Kolkata, India

## Conference Program



Asian Crystallographic Association



International Union of Crystallography



Indian Crystallographic Association



Indian National Science Academy

[www.asca2015.org](http://www.asca2015.org)

## Plenary Speakers

Day-1, December 5	<b>Petra Fromme</b> , Arizona State University, USA <i>"Serial femtosecond crystallography: The dawn of a new era in structural Biology" #PL-1</i>
Day-2, December 6	<b>Mohamed Eddaoudi</b> , King Abdullah University of Science and Technology, Saudi Arabia <i>"Metal-organic frameworks from design strategies to applications" #PL-2</i>
Day-3, December 7	<b>Kenneth Harris</b> , Cardiff University, UK <i>"New experimental techniques for exploring crystallization pathways and structural properties of solids" #PL-3</i>
Day-4, December 8	<b>Mamannamana Vijayan</b> , Indian Institute of Science, Bangalore, India <i>"Structural diversity and ligand specificity in lectins. From plants to Mycobacteria" #PL-4</i>

## Keynote Speakers

Day-2, December 6	<b>Michelle Dunstone</b> , Monash University, Australia <i>"Packing a giant punch: The MACPF/CDC pore forming protein superfamily" #KN-1</i>
Day-2, December 6	<b>Sue-Lein Wang</b> , National Tsing Hua University, Taiwan <i>"Recent developments and prospects in porous inorganic framework materials" #KN-2</i>
Day-2, December 6	<b>Michi Suga</b> , Okayama University, Japan <i>"Mechanism of photosynthetic water-splitting based on the atomic structure of photosystem II" #KN-3</i>
Day-4, December 8	<b>Haitao Li</b> , Tsinghua University, China <i>"Mark the "readership" for transcription control" #KN-4</i>
Day-4, December 8	<b>Parimal Bharadwaj</b> , Indian Institute of Technology Kharagpur, India <i>"Studies on metal organic frameworks through chemical crystallography" #KN-5</i>

## Lunch Time Meetings

Day-2, December 6	AsCA Council Meeting (only for Council Members)
Day-3, December 7	<b>Mitchell Guss:</b> New initiatives of IUCr Commission on Biological Macromolecules (for macromolecular crystallography participants)
Day-4, December 8	Meeting of the International Program Committee for AsCA 2016

## Evening Programs

Day-1, December 5	Welcome Mixer & Cultural Program
Day-2, December 6	Roger Durst (Bruker) Dr. Ashwani Kumar (BARC, India)
Day-2, December 6	Dinner (Sponsored by Bruker)

## DAY-1: SATURDAY, DECEMBER 5, 2015

### Registration

09:00 – 18:00 Pre-Function Area, Main Hall

### Crystallographic Software Session I

10:00 – 12:00 Main Hall

Chair: **K. Suguna**, Indian Institute of Science, Bangalore, India

30 minutes **Pavel Afonine**, Lawrence Berkeley National Lab, USA  
*"Structure refinement and validation tools in Phenix"* #CS-1

30 minutes **Sanotsh Panjekar**, Australian Synchrotron, Australia  
*"Automated crystal structure determination using multiple data sets"* #CS-2

30 minutes **Jon Agirre**, CCP4, York University, UK  
*"CCP4i2: a new graphical interface for the CCP4 suite"* #CS-3

30 minutes **Thomas Terwilliger**, Los Alamos National Laboratory, USA  
*"X-ray structure determination using weak anomalous data"* #CS-4

### Crystallographic Software Session II

10:00 – 12:00 Hall-1

Chair: **Brendan Kennedy**, University of Sydney, Australia

30 minutes **Dylan Jayatilaka**, University of Western Australia, Australia  
*"CrystalExplorer and the Tonto library for quantum crystallography"* #CS-5

30 minutes	<b>Benoit Guillot</b> , Universite de Lorraine, France <i>"The MoPro software package for electron density analysis of small compounds and biological macromolecules"</i> #CS-6
30 minutes	<b>Horst Pushmann</b> , Durham University, UK <i>"The many faces of Olex2"</i> #CS-7
30 minutes	<b>Max Avdeev</b> , Australian Nuclear Science and Technology Organisation, Australia <i>"Recent trends in neutron powder diffraction data analysis software"</i> #CS-8
<b>Lunch</b>	
12:00 – 14:00	Food Court
<b>Opening Ceremony</b>	
14:00 – 14:30	Main Hall
<b>Plenary Session - I</b>	
14:30 – 15:30	Main Hall
Chair:	<b>Gautam Desiraju</b> , Indian Institute of Science, Bangalore, India
Speaker:	<b>Petra Fromme</b> , Arizona State University, USA <i>"Serial femtosecond crystallography: The dawn of a new era in structural biology"</i> #PL-1
<b>Afternoon Tea</b>	
15:30 – 16:00	Pre Function Area, Main Hall

## General Interest Session - Pharmaceuticals

16:00 – 18:00	Main Hall
Co-Chairs:	<b>Ashwini Nangia</b> , University of Hyderabad, India <b>Srinivasulu Aitipamula</b> , Institute of Chemical and Engineering Sciences A*STAR, Singapore
30 minutes	<b>Tong-Bu Lu</b> , Sun Yat-Sen University, China <i>"The improvement of unfavorable physicochemical properties of APIs via pharmaceutical cocrystals"</i> #GIS-1
30 minutes	<b>Parthasarathi Dastidar</b> , Indian Association for the Cultivation of Science, Kolkata, India <i>"Pharmaceutical gels: A crystal engineering approach towards developing drug delivery systems"</i> #GIS-2
30 minutes	<b>Peter Czabotar</b> , Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia <i>"Targeting cell death pathway proteins with small molecule therapeutics"</i> #GIS-3
30 minutes	<b>Colin Groom</b> , Cambridge Crystallographic Data Centre, UK <i>"Structural chemistry in drug design: Affinity, properties and solubility"</i> #GIS-4
<b>Welcome Mixer &amp; Cultural Program (by Tanusree Shankar)</b>	
18:00 – 20:00	Mini Hall

## DAY-2: SUNDAY, DECEMBER 6, 2015

### Plenary Session II

09:00 – 10:00	Mini Hall
Chair:	<b>Yuji Ohashi</b> , Tokyo Institute of Technology, Japan
Speaker:	<b>Mohamed Eddaoudi</b> , King Abdullah University of Science and Technology, Saudi Arabia <i>"Metal-organic frameworks from design strategies to applications"</i> #PL-2

### Morning Coffee

10:00 – 10:30	Pre Function Area, Mini Hall
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### Microsymposium 1 – Membrane Proteins

10:30 – 12:30	Mini Hall
Co-Chairs:	<b>Jacqui Gulbis</b> , Walter and Eliza Hall Institute of Medical Research, Australia <b>Rajesh Ghai</b> , University of New South Wales, Australia
30 minutes	<b>Arun Shukla</b> , Indian Institute of Technology, Kanpur, India <i>"Structural insights in to GPCR-arrestin interaction"</i> #MS1-1
30 minutes	<b>Janesh Kumar</b> , National Centre For Cell Science, Pune, India <i>"The twists and turns of glutamate receptor activation and desensitization"</i> #MS1-2
20 minutes	<b>Alice Vrielink</b> , University of Western Australia, Australia <i>"Combating multidrug resistance in Neisseria: Structure of an endotoxin modifying enzyme"</i> #MS1-3
20 minutes	<b>Adeline Robin</b> , Walter and Eliza Hall Institute of Medical Research, Australia <i>"Direct activation and structural insights into the pro-apoptotic protein Bax"</i> #MS1-4

20 minutes	<b>Chacko Jobichen</b> , National University of Singapore, Singapore <i>"Structure of AcrH-AopB chaperone-translocator complex reveals a role for membrane-hairpins in type III secretion system translocon assembly"</i> #MS1-5
<b>Microsymposium 2 – Engineering of Crystalline and Non-Crystalline Solids</b>	
10:30 – 12:30	Hall-1
Co-Chairs:	<b>Kumar Biradha</b> , Indian Institute of Technology, Kharagpur, India <b>Peng Cheng</b> , State Key Lab, Nankai U. China
30 minutes	<b>Kazuki Sada</b> , Hokkaido University, Japan <i>"Crystal crosslinking of metal-organic frameworks as the third kind of crystalline polymerization"</i> #MS2-1
30 minutes	<b>J. Narasimha Moorthi</b> , Indian Institute of Technology, India <i>"De novo approaches to the development of crystalline porous materials (MOFs) and amorphous organic light emitting diodes (OLEDs)"</i> #MS2-2
20 minutes	<b>Suryanarayan Cherukuvada</b> , Indian Institute of Science, India <i>"On the headaches of resolving a low melting combination as a definite eutectic or an elusive cocrystal"</i> , #MS2-3
20 minutes	<b>Partha Jana</b> , Indian Institute of Technology, India <i>"Structure determination of <math>\gamma</math>-brass related composite structures by a (3+1)-dimensional space description"</i> #MS2-4
20 minutes	<b>Ian Williams</b> , Hong Kong University of Science and Technology, Hong Kong <i>"Resolution of SPINOL, an Important Chiral Auxilliary, by a Neutral Molecular Co-crystal"</i> #MS2-5



### Microsymposium 3 – Diffraction Imaging and XFELS

10:30 – 12:30	Hall-2
Co-Chairs:	<b>Yoshinori Nishino</b> , Hokkaido University, Japan <b>Changyong Song</b> , Pohang University of Science and Technology, Korea
30 minutes	<b>Kensuke Tono</b> , Japan Synchrotron Radiation Research Institute, Japan <i>"Imaging and crystallography platforms at SACLA" #MS3-1</i>
30 minutes	<b>Kyung Hwan Kim</b> , Korea Advanced Institute of Science and Technology, Korea <i>"Capturing the formation of chemical bond with femtosecond X-ray solution scattering" #MS3-2</i>
20 minutes	<b>Shin-ichi Adachi</b> , High Energy Accelerator Research Organization (KEK), Japan <i>"Visualizing bond formation in solution with femtosecond X-ray scattering" #MS3-3</i>
20 minutes	<b>Daewoong Nam</b> , Pohang University of Science and Technology, Korea <i>"Fixed target single-shot imaging of nanostructures using thin solid membranes at SACLA" #MS3-4</i>
20 minutes	<b>Yoshinori Nishino</b> , Hokkaido University, Japan <i>"Live cell nano-imaging free from radiation damage by using X-ray free-electron laser", #MS3-5</i>
<b>Lunch</b>	
12:30 - 13:30	Food Court
<b>Lunch Time Meeting - AsCA Council Meeting (only for Council Members)</b>	
12:30 - 13:30	Board Room

### Microsymposium 4 – Macromolecular Complexes and Assemblies

13:30 - 15:30	Mini Hall
Co-Chairs:	<b>Jayaraman Sivaraman</b> , National University of Singapore, Singapore <b>Satoshi Murakami</b> , Tokyo Institute of Technology, Japan
30 minutes	<b>Yonggui Gao</b> , Nanyang Technological University, Singapore <i>"Structural insight into translational GTPase in protein synthesis and its regulation"</i> #MS4-1
30 minutes	<b>Udo Heinemann</b> , Max Delbrück Center for Molecular Medicine, Berlin, Germany <i>"Structural and biochemical studies of adaptor protein binding to AAA ATPases: p97 and CDC48"</i> #MS4-2
20 minutes	<b>Michi Suga</b> , Photosynthesis Research Center, Okayama University, Japan <i>"Structural basis for energy transfer pathways in the plant PSI-LHCI supercomplex"</i> #MS4-3
20 minutes	<b>Kakoli Bose</b> , ACTREC, Tata Memorial Centre, Kharghar, India <i>"Molecular basis of DISC assembly and procaspase-8 activation in a novel adaptor-independent cell death pathway"</i> #MS4-4
20 minutes	<b>Veendra Kumar</b> , Institute of Molecular and Cell Biology, Singapore <i>"Structure of ribosome bound to BipA"</i> #MS4-5

### Microsymposium 5 – Structure and Properties of Functional Materials

13:30 - 15:30	Hall-1
Co-Chairs:	<b>Rahul Banerjee</b> , CSIR-National Chemical Laboratory, India <b>David Turner</b> , Monash University, Australia
30 minutes	<b>C. Malla Reddy</b> , Indian Institute of Science Education and Research, India <i>"Understanding mechanically reconfigurable organic single crystals"</i> #MS5-1

30 minutes	<b>Chris Sumby</b> , University of Adelaide, Australia <i>"Matrix isolation in MOFs: towards catalysis by understanding reactivity"</i> #MS5-2
20 minutes	<b>Neeraj Sharma</b> , University of New South Wales, Australia <i>"Using in situ synchrotron X-ray diffraction to understand the Na insertion/extraction reactions in the <math>\text{Na}_3\text{V}_2\text{O}_7 \cdot x(\text{PO}_4)_2\text{F}_{3-2x}</math> family"</i> #MS5-3
20 minutes	<b>Prasado Rao</b> , National University of Singapore, Singapore <i>"Ion migration pathway studies in lithium based compounds for rechargeable batteries"</i> #MS5-4
20 minutes	<b>Debrati Das</b> , Indian Institute of Technology, Kharagpur, India <i>"Structural Adaptation of <math>\text{Ni}_4\text{O}_4</math> units to form cubane, open Dicubane, dimeric cubane, and one-dimensional polymeric cubanes: Magnetostructural Correlation of <math>\text{Ni}_4</math> Clusters"</i> #MS5-5
<b>Microsymposium 6 – Synchrotron and Neutron Sources, Instrumentation and Application</b>	
13:30 - 15:30	Hall-2
Co-Chairs:	<b>Richard Garrett</b> , Australian Synchrotron, Australia <b>Je-Geun Park</b> , Seoul National University, Korea
30 minutes	<b>Di-Jing Huang</b> , National Synchrotron Radiation Research Centre, Taiwan <i>"Scientific opportunities of a low-emittance synchrotron light source"</i> #MS6-1
30 minutes	<b>Takashi Kamiyama</b> , J-PARC Center & Neutron Science Laboratory (KEK), Japan <i>"Current and future of crystallography with high intensity neutron beams"</i> #MS6-2
20 minutes	<b>Eiji Nishibori</b> , University of Tsukuba, Japan <i>"Structural studies using multiple powder diffraction dataset"</i> #MS6-3

20 minutes	<b>Suman Mandal</b> , Shiv Nadar University, India <i>"Scanning the resolution limit in neutron protein crystallography"</i> #MS6-4
20 minutes	<b>Stefan Brandstetter &amp; Clemens Schulze-Briese</b> , Dectris Ltd, Switzerland <i>"Novel Hybrid Photon Counting detectors for advanced X-ray studies"</i> #MS6-5
<b>Afternoon Tea</b>	
15:30 - 16:00	Pre Function Area, Mini Hall
<b>Poster Session - I</b>	
16:00 - 17:15	Poster Hall-1
MS1	<b>Manish Keshewani</b> , University of Madras, India <i>"Identification of novel natural inhibitor for NorM - A multidrug and toxic compound extrusion transporter-An in silico molecular modeling and simulation studies"</i> #MS1-PS1
MS1	<b>Jebastin T</b> , Bharathiar University, India <i>"Invitro and insilico studies on integral membrane protein complexes involved in virulence and survival of enteric Gram negative bacterium"</i> #MS1-PS2
MS1	<b>Arul Amal Dass</b> , Madurai Kamaraj University, India <i>"Modelling and structural characterization of outer membrane adhesion protein t2544 from s. typhi"</i> #MS1-PS3
MS1	<b>Prabu Manoharan</b> , Madurai Kamaraj University, India <i>"Computational profiling of channel forming outer membrane proteins (OMPs)"</i> #MS1-PS4

MS1	<b>Rajabrata Bhuyan</b> , University of Kalyani, India <i>"Conformational dynamics of Shaker-Type Kv1.1 ion channel in open, closed, and two mutated states"</i> #MS1-PS5
MS2	<b>Takashi Akitsu</b> , Tokyo University of Science, Japan <i>"Linearly polarized light-induced anisotropic orientation of binuclear Ni(II), Cu(II) and Zn(II) schiff base complexes and methyl orange in PVA"</i> #MS2-PS1
MS2	<b>Suresh Kuthuru</b> , University of Hyderabad, India <i>"Pharmaceutical cocrystals of nitazoxanide: solubility, stability and bioavailability studies"</i> #MS2-PS2
MS2	<b>Avishek Dey</b> , Indian Institute of Technology, Kharagpur, India <i>"Cocrystals and salts of pyridine-3,5-bis(1-methyl-benzimidazole-2-yl) with pyromellitic acid: aromatic guest inclusion and separation via benzimidazole-carboxylic acid heterosynthon"</i> #MS2-PS3
MS2	<b>Mousumi Garai</b> , Indian Institute of Technology, Kharagpur, India <i>"Exploration and exploitation of homologues series of bis-(acrylamido)alkanes containing pyridyl and phenyl groups: <math>\beta</math>-Sheet vs 2d-layers in solid state photo chemical [2+2] reactions"</i> #MS2-PS4
MS2	<b>Abhijit Garai</b> , Indian Institute of Technology, Kharagpur, India <i>"Solid state photochemical [2+2] cycloaddition reactions and luminescence properties in coordination polymers"</i> #MS2-PS5
MS2	<b>Susanta Nayak</b> , Visvesvaraya National Institute of Technology, Nagpur, India <i>"In situ cryocrystallography of low melting halogen-bonded complexes"</i> #MS2-PS6
MS2	<b>Kafeel Siddiqui</b> , National Institute of Technology, Raipur, India <i>"Metal-oroato complexes: supramolecular synthon induced structural diversity"</i> #MS2-PS7

MS2	<b>Subhankar Saha</b> , Indian Institute of Science, Bangalore, India <i>"Graded Ir-filters for supramolecular synthons: distinguishing different geometries of same interaction"</i> #MS2-PS8
MS2	<b>Jian Gong Ma</b> , Nankai University, China <i>"Solvent-free conversion of CO<sub>2</sub> with a Cu cluster under ambient conditions"</i> #MS2-PS9
MS2	<b>Jarugu Narasimha Moorthy</b> , Indian Institute of Technology, Kanpur, India <i>"De novo approaches to the development of crystalline porous materials (MOFs) and amorphous organic light emitting diodes (OLEDs)"</i> #MS2-PS10
MS3	<b>Akifumi Higashiura</b> , Institute for Protein Research, Osaka University, Japan <i>"Approaches for coherent X-ray diffraction imaging of Paramecium bursaria chlorella virus-1"</i> #MS3-PS1
MS4	<b>Dileep Vasudevan</b> , Institute of Life Sciences, Bhubaneswar, India <i>"Structural characterization of caseinolytic protease-associated chaperone proteins"</i> #MS4-PS1
MS4	<b>Carman Tse</b> , Osaka University, Japan <i>"Structural analysis of a newly identified polyamine synthase BpsA from Thermococcus kodakarensis"</i> #MS4-PS2
MS4	<b>Junso Fujita</b> , Osaka University, Japan <i>"Structural-change mechanism of bacterial cell division protein FtsZ from Staphylococcus aureus"</i> #MS4-PS3
MS4	<b>Abdul Ajees Abdul Salam</b> , Manipal University, India <i>"Structural and modelling studies of human As(III) S-adenosylmethionine methyltransferases"</i> #MS4-PS4

MS4	<b>Shanti Swaroop Srivastava</b> , Centre for Cellular and Molecular Biology, Hyderabad, India <i>"Structure-function insights into the novel cell adhesion molecules"</i> #MS4-PS5
MS4	<b>Ashish Kumar</b> , Institute of life Science, India <i>"Host nucleosomes forming a docking station for dengue virus capsid protein C - a structural analysis"</i> #MS4-PS6
MS4	<b>Amy McGrath</b> , University of Wollongong, Australia <i>"DNA sliding clamps: an emerging target for antibacterials"</i> #MS4-PS7
MS4	<b>Shobhana Krishnaswamy</b> , Indian Institute of Technology Madras, India <i>"Solvatomorphism in a [2]catenane constructed from eight components using transition metal driven self-assembly"</i> #MS4-PS8
MS4	<b>Hanna S. Yuan</b> , Academia Sinica, Taiwan <i>"Structural insights into the dimeric DEAD-box helicase CshA in RNA binding and unwinding"</i> #MS4-PS9
MS4	<b>Suman Nandy</b> , University of Kalyani, India <i>"Structural dynamics investigation of human family 1 &amp; 2 cystatin-cathepsin L1 interaction: comparison of binding modes"</i> #MS4-PS10
MS4	<b>Nikhata Saba</b> , University of Kalyani, India <i>"Differential interactions of cytochrome P450 3A5 and 3A4 with chemotherapeutic agent- vincristine: A comparative molecular dynamics study"</i> #MS4-PS11
MS4	<b>Tapashi Ghosh Roy</b> , University of Chittagong, India <i>"A new alkyl and aryl substituted macrocyclic ligand and its cobalt(III) complexes: synthesis, characterization, crystal structure and biological activities"</i> #MS4-PS12

MS4	<b>Ajit Kumar Singh</b> , Institute of Life Sciences Bhubaneswar, India <i>"Structural and functional characterization of Arabidopsis thaliana FKBP53 - a multi-domain histone chaperone"</i> #MS4-PS13
MS4	<b>Saroj Hazari</b> , BGC Trust University Bangladesh, India <i>"Synthesis, characterization and biomedical activities of a new macrocyclic ligand and its copper(II) complexes. Crystal and molecular structure of [CuLal(CIO<sub>4</sub>)<sub>2</sub>]"</i> #MS4-PS14
MS4	<b>Sushil Kumar</b> , Institute of Life Sciences, India <i>"Interaction studies of influenza a virus matrix protein M1, with host nucleosomal elements"</i> #MS4-PS15
MS4	<b>Sayani Sarkar</b> , Bose Institute, India <i>"Monomeric RING E3 RNF13 activates E2 - ubiquitin independent of interaction with additional moieties"</i> #MS4-PS16
MS4	<b>Pritam Naskar</b> , Bose Institute, India <i>"Structural insights into symbiosis receptor kinase and its gatekeeper substituents"</i> #MS4-PS17
MS4	<b>Ruchi Anand</b> , Indian Institute of Technology Bombay, India <i>"Search for molecular tunnels"</i> #MS4-PS18
MS4	<b>Vengadesan Krishnan</b> , Regional Centre for Biotechnology, India <i>"Successful structure solution for shaft pilin SpaA from Lactobacillus rhamnosus GG using fragmented approach and distant homolog "structural insights into SpaCBA pilus assembly"</i> #MS4-PS19
MS4	<b>Adaitya Behera</b> , Bose Institute, India <i>"Structural analysis of RING E3 ligase ZNRF1 in complex with the ubiquitin conjugating enzyme, UBE2N"</i> #MS4-PS20



MS4	<b>Mahesh Chand</b> , Indian Institute of Science Education and Research, India <i>"Structural and functional characterization of Type ISP restriction-modification enzymes" #MS4-PS21</i>
MS4	<b>Jyoti Baranwal</b> , Indian Institute of Science Education and Research, Pune, India <i>"Structural studies on MglA, a small GTPase in spatial positioning of Myxococcus xanthus motility complexes" #MS4-PS22</i>
MS5	<b>Nur Ahamad</b> , Shahjalal University of Science and Technology, Bangladesh <i>"Fabrication of nanocomposite consists of Fe<sub>3</sub>O<sub>4</sub> and silver nanoparticles to engineer efficient photocatalyst and platform for photovoltaic device" #MS5-PS1</i>
MS5	<b>Yong-il Kim</b> , Research Institute of Standards and Science, Korea <i>"Joint structural refinement of X-ray and neutron powder diffraction data on lead magnesium niobate-lead titanate" #MS5-PS2</i>
MS5	<b>Wang hay Kan</b> , University of Texas at Austin, USA <i>"First Fe-based Na<sup>+</sup>-ion-cathode with two distinct types of polyanions: Fe<sub>3</sub>P<sub>5</sub>SiO<sub>19</sub>" #MS5-PS3</i>
MS5	<b>Moon-Gun Choi</b> , Yonsei University, Korea <i>"Mechanochemically induced structural transformation from [Ag(dmtz)(CF<sub>3</sub>SO<sub>3</sub>)<sub>2</sub>]n to {[Ag(dmtz)](ClO<sub>4</sub>)} involving anion-? interactions" #MS5-PS4</i>
MS5	<b>Chatphorn Theppitak</b> , Naresuan University, Thailand <i>"New family of cadmium(II) and zinc(II) compounds with N-(2'-pyridylmethylene)aniline derivatives: stoichiometry and solvent-controlled syntheses, structures and luminescent properties" #MS5-PS5</i>
MS5	<b>Sajal Chandra Mazumdar</b> , Bangladesh University of Engineering and Technology, Bangladesh <i>"Structural, magnetic and dielectric properties of BLFO-NCZFO multiferroic composites" #MS5-PS6</i>

MSS	<b>Bablu Das</b> , Bangladesh University of Engineering and Technology, Bangladesh <i>"Structural and magnetic properties of Gd substituted Ni-Cu-Zn ferrites" #MS5-PS7</i>
MSS	<b>Yadagiri Karampuri</b> , Indira Gandhi Centre for Atomic Research, India <i>"Physical properties of DyMnO<sub>3</sub> with isovalent ion (Bi<sup>3+</sup>) substitution at Dy site" #MS5-PS8</i>
MSS	<b>Yun-Liang Soo</b> , National Tsing Hua University, Taiwan <i>"Effects-of thermal-annealing-on Co local structures in (Y, Co)-codoped nanoceria probed by XAFS" #MS5-PS9</i>
MSS	<b>Takamitsu Yamanaka</b> , Osaka University, Japan <i>"Different electron-phonon interaction inducing structure transition of SrTiO<sub>3</sub> at low temperature and high pressure" #MS5-PS10</i>
MSS	<b>Rajashri Urkude</b> , Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, India <i>"X-ray diffraction study of Bi<sub>2-x</sub>Mn<sub>x</sub>Se<sub>3</sub> topological insulators" #MS5-PS11</i>
MSS	<b>Karabi Nath</b> , Indian Institute of Technology, Kharagpur, India <i>"Metal organic frameworks and coordination polymers in separation science" #MS5-PS12</i>
MSS	<b>Mohammed Kamrul Haque Bhuiyan</b> , Bangladesh <i>"Characterization of Ba<sub>1-x</sub>Sr<sub>x</sub>(Fe<sub>0.5</sub>Ta<sub>0.5</sub>)O<sub>3</sub> perovskites as Pb free ferroelectric materials" #MS5-PS13</i>
MSS	<b>Kartik Maity</b> , Indian Institute of Technology, Kharagpur, India <i>"One-dimensional water cages with repeat unit of (H<sub>2</sub>O)<sub>24</sub> resembling pagodane in 3D-coordination polymer: proton conducting and tunable luminescence emission by adsorption of anionic dyes" #MS5-PS14</i>

MSS	<b>Manish Kumar Mishra</b> , Indian Institute of Science, India <i>"Designing mechanical properties of molecular crystals" #MSS-PS15</i>
MSS	<b>Yosuke Nishikawa</b> , Osaka University, Japan <i>"Updated structure of the dynein stalk region from the Mus musculus cytoplasmic dynein." #MSS-PS16</i>
MSS	<b>M V Reddy</b> , National University of Singapore, Singapore <i>"Application of X-ray powder diffraction technique in the area of advanced energy storage functional materials" #MSS-PS17</i>
MSS	<b>Uma Shankar</b> , Indian Institute of Technology, BHU Varanasi, India <i>"Suppression of charge ordering transition in nanocrystalline <math>La_{0.5}Ca_{0.5}MnO_3</math> -ceramics" #MSS-PS18</i>
MSS	<b>Guofeng Cheng</b> , Shanghai Institute of Ceramics, Chinese Academy of Sciences, China <i>"Effect of lattice parameters variation on magnetization in <math>BiFeO_3</math> with Pr, Ba co-doping" #MSS-PS19</i>
MSS	<b>Nagarajan Veeraputhiran</b> , Indian Institute of Science, India <i>"Oxalic acid cross-linked poly(4-vinylpyridine) microgel for selective dye adsorption" #MSS-PS20</i>
MSS	<b>Linia Tashmim</b> , University of Dhaka, Bangladesh <i>"Synthesis and characterization of cobalt doped mullite type bismuth aluminate" #MSS-PS21</i>
MSS	<b>Pradeep Shanbogh</b> , Poornaprajna Institute of Scientific Research, India <i>"Local and average structure of <math>BiREWO_6</math> (<math>RE = Eu</math> and <math>Tb</math>) nano photocatalyst" #MSS-PS22</i>
MSS	<b>Prem Prakash</b> , Indian Institute of Technology Bombay, India <i>"High resolution structures of <i>Aspergillus niger</i> glutamate dehydrogenase, an enzyme with unique features" #MSS-PS23</i>

MS5	<b>Mohammad Julhash Miah</b> , Bangladesh University of Engineering & Technology, Bangladesh <i>"Structural, microstructural and magnetoelectric effect studies of multiferroic xBST-(1-x)BFDO solid solution" #MS5-PS24</i>
MS5	<b>Champika Hettiarachchi</b> , University of Peradeniya, Sri Lanka <i>"Crystalline state thermo and photochromic reactivity of a benzospiropyran in a self-assembled 3D honeycomb network of 1,3,5-benzenetricarboxylic acid" #MS5-PS25</i>
MS5	<b>Tapas Debnath Debnath</b> , University of Dhaka, Bangladesh <i>"New series of vanadium doped rubidium hexagonal tungsten bronze, RbxW1-yVyo<sub>3</sub>" #MS5-PS26</i>
MS5	<b>Takuma Sakata</b> , Yokohama National University, Japan <i>"Solid-state optical properties of 2,5-diamino-3,6-dicyanopyrazine dyes with small alkyl substituents on the amino groups" #MS5-PS27</i>
MS5	<b>Akhilesh Kumar Singh</b> , School of Materials Science and Technology, Indian Institute of Technology (Banaras Hindu University), India <i>"Investigation of structure-property correlations in multifunctional ceramics and multiferroic composites" #MS5-PS28</i>
MS5	<b>Duong Huyen</b> , Hanoi University of Science and Technology, Vietnam <i>"Effect of TiO<sub>2</sub> size and polymorph on properties of PPy/TiO<sub>2</sub> nanocomposites" #MS5-PS29</i>
MS6	<b>Emil Espes</b> , Excillum, Sweden <i>"Current status of the liquid-metal-jet X-ray source technology" #MS6-PS1</i>
MS6	<b>Ravindra Singh Solanki</b> , Department of Physics, Tamkang University, Taiwan <i>"Study of the correlations and dynamics of spins in an XY-like spin-glass system (Ni<sub>0.40</sub>Mn<sub>0.60</sub>)TiO<sub>3</sub>" #MS6-PS2</i>

MS6	<b>Ono Shoki</b> , Nagoya Institute of Technology, Japan <i>"Evaluation of crystallite size from synchrotron powder diffraction data collected with a flat two-dimensional X-ray detector" #MS6-PS3</i>
MS6	<b>Shih-Lin Chang</b> , National Synchrotron Radiation Research Center, Taiwan <i>"Single-mode hard X-ray monochromator using crystal cavity resonance" #MS6-PS4</i>
MS6	<b>Dae-Woong Kim</b> , Pohang University of Science and Technology, Korea <i>"Introduction of the supramolecular crystallography beamline (BL2D-SMC) at the Pohang Light Source II, Korea" #MS6-PS5</i>
MS6	<b>Takashi Ida</b> , Nagoya Institute of Technology, Japan <i>"Multiple two-dimensional X-ray detecting system on a powder diffraction beamline BL5S2 at AichiSR" #MS6-PS6</i>
MS6	<b>Ashwani Kumar</b> , Bhabha Atomic Research Centre, India <i>"Protein crystallography beamline of indus-2: current status &amp; future plan" #MS6-PS7</i>
MS6	<b>Biplab Ghosh</b> , Bhabha Atomic Research Center, India <i>"Recent development at the PX-BL21 (Indus-2) beamline to facilitate anomalous diffraction experiment" #MS6-PS8</i>
MS6	<b>Maurizio Polentarutti</b> , Elettra-Sincrotrone Trieste, Italy <i>"Xpress and XRD2: Indo-Italian scientific partnership for a dedicated high pressure diffraction and macromolecular crystallography beamlines at Elettra Trieste" #MS6-PS9</i>
MS6	<b>Andreas Kleine &amp; Carsten Michaelsen</b> , Incoatec GmbH, Germany <i>"High-brightness-microfocus sources for chemical crystallography" #MS6-PS10</i>

MS6	<b>Naohiro Matsugaki</b> , KEK, Japan <i>"Native SAD experiments at the photon factory BL-1A" #MS6-PS11</i>
MS13	<b>Tsutomu Nakamura</b> , National Institute of Advanced Industrial Science and Technology, Japan <i>"Crystal structure and multiple crystal forms of archaeal N,Ndiacetylchitobiose deacetylase" #MS13-PS1</i>
MS13	<b>Yasuo Hata</b> , Institute for Chemical Research, Kyoto University, Japan <i>"Structural studies on resorcinol-catabolic enzymes" #MS13-PS2</i>
MS13	<b>Subhash Chandra Bihani</b> , Bhabha Atomic Research Centre, India <i>"FmE is a novel disulfide oxidoreductase system in prokaryotes" #MS13-PS3</i>
MS13	<b>Amit Das</b> , Bhabha Atomic Research Centre, India <i>"Protein kinase A catalytic subunit primed for action through time lapse X-ray crystallography of Michaelis complex formation." #MS13-PS4</i>
MS13	<b>Md. Mahfuzur Rahman</b> , University of Hyogo, Japan <i>"Structural analysis of a periplasmic heme-binding protein in bacterial heme importer system." #MS13-PS5</i>
MS13	<b>Shamayeeta Ray</b> , Indian Institute of Technology Bombay, India <i>"Crystal structure of the phenol binding domain of MopR: a selective aromatic pollutant sensor" #MS13-PS6</i>
MS13	<b>Srinivasan Sundararaj</b> , Monash University, Australia <i>"Structural recognition of CD1d-restricted microbial lipid antigen by type II natural killer T cells" #MS13-PS7</i>

MS13	<b>Manjula R</b> , National Institute of Mental Health and Neurosciences, India <i>"Discovery of novel human SIRT1 inhibitors by in silico screening" #MS13-PS8</i>
MS13	<b>Se Won Suh</b> , Seoul National University, Korea, <i>"The cell-shape determining Csd6 from Helicobacter pylori constitutes a new family of L,D-carboxypeptidase" #MS13-PS9</i>
MS13	<b>Vandana Gaded</b> , Indian Institute of Technology Bombay, India <i>"Structure and function determination of an uncharacterized enzyme from Mycobacterium smegmatis of the cytidine deaminase superfamily" #MS13-PS10</i>
MS13	<b>Ruchika Bhujbalrao</b> , Indian Institute of Technology Bombay, India <i>"Structural and biochemical studies of ksga methyltransferase from Bacillus subtilis involved in ribosome biogenesis" #MS13-PS11</i>
MS13	<b>Anitha J</b> , Manipal Centre for Virus Research, India <i>"Structural analysis of Influenza A(H1N1)pdm virus with N295T mutation in the catalytic site" #MS13-PS12</i>
MS13	<b>Vitul Jain</b> , International Centre for Genetic Engineering and Biotechnology, India <i>"Structure of prolyl-tRNA synthetase-halofuginone complex provides basis for development of novel drugs against malaria and toxoplasmosis" #MS13-PS13</i>
MS13	<b>Pavithra G C</b> , Poornaprajna Institute of Scientific Research, India <i>"Functional insights from the structures of purine phosphoribosyltransferases of pathogenic bacteria." #MS13-PS14</i>
MS13	<b>Christopher Squire</b> , University of Auckland, New Zealand <i>"Ripping into racemic crystals; the structure of potato snakin-1" #MS13-PS15</i>

MS13	<b>Hisato Hirano</b> , The University of Tokyo, Japan <i>"Structure-guided engineering of CRISPR-Cas9 PAM specificity" #MS13-PS16</i>
MS13	<b>Manish Thakur</b> , University of Mysore/Jubilant Biosys Ltd., India <i>"First crystal structure of a novel protein tyrosine kinase6, PTK6 at 2.3Å resolution" #MS13-PS17</i>
MS13	<b>Jesmita Dhar</b> , Bose Institute, India <i>"Identification of a novel secondary structure, topi" #MS13-PS18</i>
MS13	<b>Yusuke Nakamichi</b> , Laboratory of Supramolecular Crystallography Institute for Protein Research, Osaka University, Japan <i>"The high-resolution X-ray crystal structure of the capping enzyme from rice dwarf virus" #MS13-PS19</i>
MS13	<b>Faizah AlMalki</b> , Saudi Arabia <i>"Structural studies on Trypanosoma brucei flap endonuclease wilde type (TbFEN-WT)" #MS13-PS20</i>
MS13	<b>Ishan Rathore</b> , Indian Institute of Technology Bombay, India <i>"Structural and functional studies on activation of histo-aspartic protease (HAP)" #MS13-PS21</i>
MS13	<b>Vandana Mishra</b> , Indian Institute of Technology Bombay, India <i>"Understanding the activation mechanism of plasmepsins from Plasmodium falciparum" #MS13-PS22</i>
MS13	<b>Shwu-Huey Liaw</b> , National Yang-Ming University, Taiwan <i>"Structural basis of poly(3-hydroxybutyrate) hydrolysis by PhaZ depolymerase from Bacillus thuringiensis" #MS13-PS23</i>



MS14	<b>Shalini Suresh</b> , Chemistry Research Centre, (Affiliated to Kuvempu University) SSMRV Degree College, India <i>"Crystal packing forces steering the assembly of N-salicylidineaniline derivatives into hydrogen bonded supramolecular laces: crystal structures and Hirshfeld surface analysis"</i> #MS14-PS1
MS14	<b>Suzanna Ward</b> , Cambridge Crystallographic Data Centre, UK <i>"50 Years of sharing crystal structures"</i> #MS14-PS2
MS14	<b>Harjeet Kaur</b> , M. D. University Rohtak, India <i>"Points to ponder in the study of polytypism in MX<sub>2</sub> layered compound"</i> #MS14-PS3
MS14	<b>Somnath Dey</b> , University of Bayreuth, Germany <i>"Modulation, twinning and crystal structures of <math>\Lambda</math>-Co(sepulchrates) trinitrate at low temperatures"</i> #MS14-PS4
MS14	<b>Ugin Inbaraj N</b> , National Institute of Technology, Trichy, India <i>"Intermolecular interactions in the solid state of secondary acetaminophen mannich bases"</i> #MS14-PS5
MS14	<b>Moshiur Rahman</b> , Jahangirnagar University, Bangladesh <i>"Metal sulfur nitrogen bonded complexes of iron and ruthenium and their X-ray crystal structures"</i> #MS14-PS6
MS14	<b>Kunal Jha</b> , Shiv Nadar University, India <i>"Five solvatomorphs of a stilbene derivative: a systematic study of solvent interactions"</i> #MS14-PS7
MS14	<b>Hare Ram Yadav</b> , Indian Institute of Science Education and Research Mohali, India <i>"Can weak C-H...F hydrogen bond(s) alter the packing features in the presence of strong hydrogen bond: An experimental and computational study on fluorinated amides"</i> #MS14-PS8

MS14	<b>Debika Datta</b> , Indian Institute of Technology Guwahati, India <i>"Nucleated growth of bush-like peptide superstructures" #MS14-PS9</i>
MS14	<b>Sanjay Tailor</b> , Sardar Patel University, India <i>"Synthesis, Hirshfeld analysis and crystal structure of silver and copper complexes of sulfamethazine" #MS14-PS10</i>
MS14	<b>Sounak Sarkar</b> , Indian Institute of Science, India <i>"Overcrowded naphthalene: an analysis of the competition between intramolecular Cl...Cl peri interactions and intermolecular Cl...Cl and Cl...<math>\pi</math> interactions" #MS14-PS11</i>
MS14	<b>Rajni Kant</b> , University of Jammu, India <i>"An insight into the crystallography of Ni - xanthate complexes" #MS14-PS12</i>
MS14	<b>Vaishali Sawant</b> , Shivaji University, India <i>"Synthesis, structure, and photoluminescence of copper(I) complexes of N-(2-[(2E)-2-(4-nitrobenzylidene) hydrazinyl]carbonyl} phenyl)benzamide and triphenylphosphine" #MS14-PS13</i>
MS14	<b>Martin Adam</b> , Bruker AXS GmbH, Germany <i>"New X-ray sources and X-ray detectors for fast and efficient in-house experiments" #MS14-PS14</i>
MS14	<b>Rahul Dubey</b> , Sardar Patel University, India <i>"Novel Silver complexes of 4-amino-N-pyridinylbenzenesulfonamide (sulfapyridine) and 4-Amino-N-(2,6-dimethoxypyrimidin-4-yl) benzenesulfonamide (sulfadimethoxine)" #MS14-PS15</i>
MS14	<b>Urmila H. Patel</b> , Sardar Patel University, India <i>"Synthesis, spectroscopic characterization and crystal structure of cadmium complexes of 1,10 - Phenanthroline" #MS14-PS16</i>

MS14	<b>Alexandra Griffin</b> , Rigaku Oxford Diffraction, UK <i>"Ultra-fast structure determination and structure solution tools in CrysAlisPro v38" #MS14-PS17</i>
MS14	<b>Noor Shahina Begum</b> , Bangalore University, India <i>"Synthesis and crystallographic analysis of fluoro substituted arylidene derivatives of thiazolopyrimidines" #MS14-PS18</i>
MS14	<b>Raj Gautam</b> , Indian Institute of Science, Bangalore, India <i>"Do carboximide-carboxylic acid combinations form co-crystals: role of hydroxyl substitution on the formation of co-crystals and eutectics" #MS14-PS18</i>
MS14	<b>Sowmya A</b> , MS Ramaiah Institute of Technology, Bangalore, India <i>"Crystal and molecular structure of biologically active substituted imidazo[2,1-b][1,3,4]thiadiazoles" #MS14-PS19</i>
MS14	<b>Lavanya Rajarajeswari G</b> , India <i>"Intermolecular interactions in substituted benzene-1,2-dicarboxyl-ates" #MS14-PS20</i>
MS14	<b>Lawrence Wong</b> , Hong Kong University of Science and Technology, Hong Kong <i>"Aryltartramides - a family of chiral diols for resolution" #MS14-PS21</i>
MS15	<b>Roksana Parvin</b> , Bangladesh University of Engineering and Technology, Bangladesh <i>"Structural and magnetic properties of nanocrystalline <math>\text{Li}_{x}\text{Cu}_{0.1}\text{Co}_{0.1}\text{Zn}_{0.8-2x}\text{Fe}_{2+x}\text{O}_4</math> prepared by auto combustion technique" #MS15-PS1</i>
MS15	<b>Alok Kumar Mukherjee</b> , Jadavpur University, India <i>"Compositional and architectural variation in human kidney stones from nucleus to periphery: an integrated powder X-ray diffraction (PXRD) and scanning electron microscopy (SEM) approach" #MS15-PS2</i>

MS15	<b>Martin Schreyer</b> , Institute of Chemical and Engineering Sciences, Singapore <i>"Structure solution from a single multiphase powder" #MS15-PS3</i>
MS15	<b>Ganggang Wang</b> , Chengdu Institute of Biology, Chinese Academy of Sciences, China <i>"Structural insight into the reaction mechanism of CotA laccase from Bacillus subtilis" #MS15-PS4</i>
MS15	<b>Shamila Sarwar</b> , Bose Institute, India <i>"Optimization of crystal growth using ZnO nanoparticles" #MS15-PS5</i>
GIS	<b>Hidehiro Uekusa</b> , Tokyo Institute of Technology, Japan <i>"Hydration / dehydration mechanism of pharmaceutical crystals by ab initio structure determination from powder diffraction data" #GIS-PS1</i>
GIS	<b>Sudhir Mittapalli</b> , University of Hyderabad, India <i>"Can we exchange water in a hydrate structure: a case study of etoricoxib" #GIS-PS2</i>
GIS	<b>Swapna Battini</b> , University of Hyderabad, India <i>"Polymorphism of aldose reductase inhibitor epalrestat" #GIS-PS3</i>
GIS	<b>Tanaya Chatterjee</b> , Bose Institute, India <i>"Interaction of protein L-isoaspartyl methyltransferase (PIMT) with antiepileptic drugs" #GIS-PS4</i>
GIS	<b>Dewei Joel Toh</b> , Institute of Molecular and Cell Biology, Singapore <i>"The development of subfamily selective and cell-active FTO inhibitor as anti-obesity drug" #GIS-PS5</i>
GIS	<b>Deepak Kumar</b> , National Institute of Immunology, New Delhi, India <i>"Mycobacterium tuberculosis HisB: A potential molecular target for the design of new anti-TB agents" #GIS-PS6</i>

### Keynote - I

17:15 - 18:00 Mini Hall

Chair: **Chacko Jobichen**, National University of Singapore, Singapore

Speaker: **Michelle Dunstone**, Monash University, Australia  
*"Packing a giant punch: The MACPF/CDC pore forming protein superfamily"* #KN-1

### Keynote - II

17:15 - 18:00 Hall-1

Chair: **Alison Edwards**, Australian National Science and Technology Organization, Australia

Speaker: **Sue-Lein Wang**, National Tsing Hua University, Taiwan  
*"Recent developments and prospects in porous inorganic framework materials"* #KN-2

### Keynote - III

17:15 - 18:00 Hall-2

Chair: **Liang Tong**, Columbia University, USA

Speaker: **Michi Suga**, Okayama University, Japan  
*"Mechanism of photosynthetic water-splitting based on the atomic structure of photosystem II"* #KN-3

### Evening Program - Talks by-Roger Durst (Bruker) & Biplab Ghosh (BARC, India)

18:15 - 19:15 Mini Hall

### Conference Dinner - Sponsored by Bruker

19:15 - 20:30 Food Court

## DAY-3: MONDAY, DECEMBER 7, 2015

### Plenary Session - III

09:00 - 10:00 Mini Hall

Chair: **Se Won Suh**, Seoul National University, Korea

Speaker: **Kenneth Harris**, Cardiff University, UK  
*"New experimental techniques for exploring crystallization pathways and structural properties of solids" #PL-3*

### Morning Coffee

10:00 - 10:30 Pre Function Area, Mini Hall

### Microsymposium 7 – New Tools and Methods in Structural Biology

10:30 - 12:30 Mini Hall

Co-Chairs: **Eunice EunKyeong Kim**, Korea Institute of Science and Technology, Korea  
**Kam Zhang**, RIKEN, Japan

30 minutes **Min YAO**, Hokkaido University, Japan  
*"Solution free crystal-mounting method for collecting high quality data using low energy X-ray" #MS7-1*

30 minutes **Yuihui Dong**, Institute of High Energy Physics, China  
*"Phase retrieval in protein crystallography" #MS7-2*

20 minutes **Krithika Gokulnath**, University of Madras, India  
*"Conversion of amino acid sequence in proteins to Indian classical (Carnatic) music: auditory and raga patterns suggest insights about secondary structure" #MS7-3*

20 minutes	<b>Prashantha Karunakar</b> , PES University, India <i>"Towards automated determination of the number of molecules in the asymmetric unit of a protein crystal" #MS7-4</i>
20 minutes	<b>Yogavel Manickam</b> , International Centre for Genetic Engineering and Biotechnology, India <i>"Concurrent incorporation of two or more metals into protein crystals for SAD phasing using in-house copper X-ray source" #MS7-5</i>
<b>Microsymposium 8 – Metal-Organic Frameworks and Organic: Inorganic Hybrid Materials</b>	
10:30 - 12:30	Hall-1
Co-Chairs:	<b>Tong-bu Lu</b> , Sun Yat-Sen University, China <b>Christopher Sumbly</b> , University of Adelaide, Australia
30 minutes	<b>Rahul Banerjee</b> , CSIR-National Chemical Laboratory, India <i>"Metamorphosis of metallohydrogels to crystalline metal-organic frameworks" #MS8-1</i>
30 minutes	<b>Peng Cheng</b> , Nankai University, China <i>"Lanthanide metal-organic frameworks" #MS8-2</i>
20 minutes	<b>Sumi Ganguly</b> , Indian Association for the Cultivation of Science, India <i>"Stimuli responsive breathing behavior in Co(II) MOFs accompanied by single-crystal to single-crystal transformation and magnetic property changes : Experimental and theoretical study" #MS8-3</i>
20 minutes	<b>David Turner</b> , Monash University, Australia <i>"Chiral coordination polymers: interpenetration and enantioselective separations" #MS8-4</i>

20 minutes	<b>Mithun Paul</b> , Indian Association for the Cultivation of Science, India <i>"Coordination Polymers Derived from Non-steroidal-anti-inflammatory drugs for Cell Imaging and Drug Delivery"</i> #MS8-5
<b>Microsymposium 9 – Electron Microscopy and Diffraction</b>	
10:30 - 12:30	Hall-2
Co-Chairs:	<b>Masaki Takata</b> , Spring-8, University of Tokyo, Japan <b>Dominike Elmlund</b> , Monash University, Australia
30 minutes	<b>Xiuzhen Yu</b> , RIKEN Advanced Science Institute Japan <i>"Application of Lorentz TEM to crystallographic investigation of magnetic skyrmion"</i> #MS9-1
30 minutes	<b>Michael Landsberg</b> , University of Queensland, Australia <i>"The structure of a novel bacterial toxin machinery revealed at near atomic resolution by single particle cryo-EM"</i> #MS9-2
20 minutes	<b>Bostjan Kobe</b> , University of Queensland, Australia <i>"Structural basis of higher-order assembly signaling by TIR domains in Toll-like receptor pathways"</i> #MS9-3
20 minutes	<b>Pavel Afonine</b> , Lawrence Berkeley National Laboratory, USA <i>"Phenix tools for validated refinement of atomic models in cryo-EM maps"</i> #MS9-4
20 minutes	<b>Kiran Kulkarni</b> , National Chemical Laboratory, India <i>"A hybrid approach to generate pseudo-atomic model from single-particle electron microscopy and protein crystallography"</i> #MS9-5



## Lunch

12:30 – 13:30 | Food Court

### Lunch Time Meeting - Mitchell Guss:

New initiatives of IUCr Commission on Biological Macromolecules (for macromolecular crystallography participants)

12:30 – 13:30 | Hall-1

### Microsymposium 10 – Structural Plasticity of Proteins

13:30 - 15:30 | Mini Hall

Co-Chairs: **Catherine Day**, University of Otago, NZ  
**Bostjan Kobe**, University of Queensland, Australia

30 minutes | **Rajan Sankaranarayanan**, Centre for Cellular and Molecular Biology, Hyderabad, India  
*"Mechanistic plasticity in a chiral proofreading fold and its implications"* #MS10-1

30 minutes | **Brett Collins**, University of Queensland, Australia  
*"Molecular insights into the assembly of caveola membrane domains by cavin proteins"* #MS10-2

20 minutes | **Ansuman Biswas**, Indian Institute of Science, India  
*"Structural studies of different steps in the reaction pathway of Aquifex aeolicus thymidylate kinase"*  
#MS10-3

20 minutes | **Jason M Brouwer**, Walter and Eliza Hall Institute of Medical Research, Australia  
*"Structural insights into Bak activation and oligomerisation"* #MS10-4

20 minutes	<b>Praveena Thirunavukkarasu</b> , Monash University, Australia <i>"The structural and molecular insights into natural killer T cell receptor (NKT) and CD1d-glycolipid recognition"</i> #MS10-5
<b>Microsymposium 11 – Reactions and Dynamics in the Solid State</b>	
13:30 - 15:30	Hall-1
Co-Chairs:	<b>Hidehiro Uekusa</b> , Tokyo Institute of Technology, Japan <b>Pance Naumov</b> , New York University, Abu Dhabi, United Arab Emirates
30 minutes	<b>Andrew Goodwin</b> , Oxford University, UK <i>"Function from flexibility"</i> #MS11-1
30 minutes	<b>Masako KATO</b> , Department of Chemistry, Hokkaido University, Japan <i>"Luminescent copper (I) complexes exhibiting chromic phenomena"</i> #MS11-2
20 minutes	<b>Manas Panda</b> , New York University Abu Dhabi, United Arab Emirates <i>"Dynamic crystalline materials as smart molecular machinery: Insight into the mechanism of actuation"</i> #MS11-3
20 minutes	<b>Randika Lakmali</b> , University of Peradeniya, Sri Lanka <i>"Structure-photochromic reactivity correlation of unsubstituted and halo substituted spiropyran in BaSO<sub>4</sub> matrix"</i> #MS11-4
20 minutes	<b>R. Prasada Rao</b> , National University of Singapore, Singapore <i>"Ion transport studies in sodium electrodes for high energy density rechargeable batteries"</i> #MS11-5

## Microsymposium 12 – Recent Developments in Crystal Growth

13:30 - 15:30	Hall-2
Co-Chairs:	<b>Barnali Chaudhuri</b> , Institute of Microbial Technology, Chandigarh, India <b>Chris Squire</b> , University of Auckland, New Zealand
30 minutes	<b>Naomi Chayen</b> , Imperial College, UK <i>"Enhancing the success of crystallization by design of unconventional methodologies"</i> #MS12-1
30 minutes	<b>Fasseli Coulibaly</b> , Monash University, Australia <i>"Microcrystallography of in vivo crystals"</i> #MS12-2
20 minutes	<b>Kwang-Hwa Lii</b> , National Central University, Taiwan <i>"High-temperature, high-pressure hydrothermal crystal growth"</i> MS12-3
20 minutes	<b>Patrick Shaw Stewart</b> , Douglas Instruments, UK <i>"Understanding random crystal screening with microseeding- "how new strategies can improve productivity"</i> #MS12-4
20 minutes	<b>Shilpa T</b> , Manipal Institute of Technology, India <i>"Laser induced crystallization of glycine using multi-walled-carbon-nanotubes"</i> #MS12-5
<b>Afternoon Tea</b>	
15:30 – 16:00	Pre Function Area, Mini Hall

## Poster Session II

16:00 – 17:15	Poster Hall-2
MS7	<b>Sreetama Das</b> , Indian Institute of Science, India <i>"Incorporating dynamics information to improve cis-peptide based function annotation of proteins"</i> #MS7-PS1
MS7	<b>William Duax</b> , Hauptman Woodward MRI, USA <i>"Archaea, a recent branch on the tree of life"</i> #MS7-PS2
MS7	<b>HyJin Yoon</b> , Seoul National University, Korea <i>"Binding modes of cholesterol bind proteins NPC1L1 and NPC1 with cholesterol: A docking study"</i> #MS7-PS3
MS7	<b>Akira Kinjo</b> , Osaka University, Japan <i>"Unified statistical model of protein multiple-sequence alignment integrating long-range correlation and insertions"</i> #MS7-PS4
MS7	<b>Benazir Alam</b> , Saha Institute of Nuclear Physics, India <i>"SCCA1-mediated regulation of proteolytic activity of lysosomal cysteine proteases"</i> #MS7-PS5
MS7	<b>Satya Brata Routh</b> , Centre for Cellular and Molecular Biology, India <i>"Chiral proofreading during translation of the genetic code: mechanistic insights and functional implications"</i> #MS7-PS6
MS7	<b>Md. Abu Zubair</b> , Mawlana Bhashani Science and Technology University, Tangail, Bangladesh <i>"Purification of Nymphaea nouchali tuber lectin by alternative way and inhibition of tumor growth in vivo in mice by G0/G1 cell cycle arrest"</i> #MS7-PS7

MS7	<b>Md. Nurujjaman</b> , Rajshahi University, Bangladesh <i>"Isolation and characterization of a lectin from the pulp of pomegranate (Punica granatum)" #MS7-PS8</i>
MS7	<b>Jimin Park</b> , Korea <i>"A search for antibiotics against Burkholderia pseudomallei using one step sequential assay method" #MS7-PS9</i>
MS7	<b>Yoonhwa Jo</b> , Korea <i>"Oxidative inhibition of GmhB from Burkholderia thailandensis" #MS7-PS10</i>
MS7	<b>Monika Antil</b> , Jaypee Institute of Information Technology, India <i>"Cloning, expression and characterization of isocitrate lyases of Mycobacterium tuberculosis" #MS7-PS11</i>
MS7	<b>Syed Rashed Kabir</b> , Bangladesh <i>"Moringa oleifera seed lectin inhibited tumor growth by inducing apoptosis and S cell cycle arrest in Ehrlich ascites carcinoma cells in vivo in mice" #MS7-PS12</i>
MS8	<b>Koushik Sarkar</b> , Indian Association For The Cultivation of Science, India <i>"A structure-property correlation study on rationally designed Mn(II) based coordination polymers in context of observed meta-magnetism and heterogeneous catalysis" #MS8-PS1</i>
MS8	<b>Bhavinkumar Chavda</b> , Sardar Patel University, India <i>"Synthesis, crystal structure analysis and Hirshfeld study of cobalt and nickel complexes of sulfamerazine" #MS8-PS2</i>
MS8	<b>Partha Pratim Bag</b> , Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, China <i>"Outstanding drug loading capacity by water stable microporous 2D MOF: A potential drug carrier" #MS8-PS3</i>

MS8	<b>Rujuta Doshi</b> , Indian Institute of Science, India <i>"Measurement of specific heat and magnetocaloric effect in a dense metal organic framework, Tb(HCOO)<sub>3</sub>"</i> #MS8-PS4
MS8	<b>Abin Sebastian</b> , University of Hyderabad, India <i>"Caffeic acid derived iron nanoparticles: Synthesis, characterization, and implication for rice plant growth in calcareous soils"</i> #MS8-PS5
MS8	<b>Prakash Kanoo</b> , Indian Institute of Science, Bangalore, India <i>"Porous functions in the nanospaces of flexible and not so flexible, metal-organic frameworks"</i> #MS8-PS6
MS8	<b>Savitha Govardhan</b> , Indian Institute of Technology Kanpur, India <i>"Rational design and synthesis of sterically-rigidified novel organic building blocks: Diverse metal-organic materials"</i> #MS8-PS7
MS8	<b>Pujari Chandrasekhar</b> , Indian Institute of Technology Kanpur, India <i>"Functional metal-organic frameworks (MOFs) based on rationally designed organic linkers"</i> #MS8-PS8
MS8	<b>Arindam Mukhopadhyay</b> , Indian Institute of Technology Kanpur, India <i>"Towards photoresponsive porous metal-organic materials based on photochromism of 2,2-diarylbzenopyrans (chromenes)"</i> #MS8-PS9
MS8	<b>G M Golzar Hossain</b> , University of Dhaka, Bangladesh <i>"Metal complexes of sulfamethazine"</i> #MS8-PS10
MS9	<b>Samiran Pramanik</b> , Jadavpur University, India <i>"Composition and morphological characterization of human gallstones using IR spectroscopy, SEM and X-ray Rietveld analysis"</i> #MS9-PS1

MS9	<b>Kimi Azad</b> , Indian Institute of Technology Delhi, India <i>"Dissecting non-enveloped capsid disassembly using flock house virus as a model system" #MS9-PS2</i>
MS9	<b>Saumya Bajaj</b> , Indian Institute of Technology Delhi, India <i>"Structural determinants of the membrane penetrating ability of the Flock House Virus gamma peptide through cryoelectron microscopy and single particle reconstruction" #MS9-PS3</i>
MS10	<b>Mahalakshmi Ramachandran</b> , Advanced Centre for Treatment Research and Education in Cancer, India <i>"Fine-specificity of domain-motif interaction and the role of structure: a case study with proteasomal chaperones" #MS10-PS1</i>
MS10	<b>Henry Tang</b> , Lawrence Berkeley National Laboratory, USA <i>"Pushing the limits in enzyme engineering with the model enzyme phosphoenolpyruvate carboxykinase" #MS10-PS2</i>
MS10	<b>Prasenjit Bhaumik</b> , Indian Institute of Technology Bombay, India <i>"Structural studies on Aspergillus niger glutamate dehydrogenase, an enzyme with unique functional properties" #MS10-PS3</i>
MS10	<b>Suman Pandey</b> , Indian Institute of Technology Bombay, India <i>"High resolution structures of periplasmic glucose binding protein of Pseudomonas putida CSV86 reveals structural insights into its substrate specificity" #MS10-PS4</i>
MS11	<b>Akira Yoshiasa</b> , Graduate School of Science and Technology, Japan <i>"Crystal structure and isosymmetric phase transition of high temperature C2/c clinoenstatite." #MS11-PS1</i>
MS11	<b>Ryosuke Kusu</b> , Kumamoto University, Japan <i>"Raman spectroscopy of metastable MgSiO3 high temperature C2/c clinoenstatite." #MS11-PS2</i>

MS11	<b>Poria Kishorkumar. C.</b> , Veer Narmad South Gujarat University, India <i>"Dissolution kinetics and reactivity at dislocation studies on naturally grown and surgically removed kidney stones." #MS11-PS3</i>
MS11	<b>Takashi Ohhara</b> , J-PARC Center, Japan Atomic Energy Agency, Japan <i>"Single crystal neutron diffraction study of a crystalline-state photoisomerization by using a new TOF-Laue neutron diffractometer SENJU at J-PARC" #MS11-PS4</i>
MS11	<b>Naba Kamal Nath</b> , National Institute of Technology, Meghalaya, India <i>"Photomechanical bending of organic molecular crystals" #MS11-PS5</i>
MS12	<b>Sunil Chaudhary</b> , Maharshi Dayanand University, India <i>"Effect of phase transitions in lead iodide crystals as radiation detectors" #MS12-PS1</i>
MS12	<b>Ramesh Ganduri</b> , Indian Institute of Science, India <i>"Multi-component adducts of pyridoxine: an evaluation of the formation of eutectics and molecular salts" #MS12-PS2</i>
MS12	<b>Deepali Verma</b> , Jaypee Institute of Information Technology, India <i>"Recombinant production, biochemical characterization and crystallization of cyse from Klebsiella pneumoniae" #MS12-PS3</i>
MS12	<b>Richa Bhardwaj</b> , Panjab University, Chandigarh, India <i>"Structural properties investigation in zno nano-flower synthesized via hydrothermal route" #MS12-PS4</i>
MS12	<b>Venkataramanan Mahalingam</b> , IISER Kolkata, India <i>"Lanthanide-doped nanocrystals: Growth, luminescent properties and applications" #MS12-PS5</i>



MS16	<b>Mintu Chandra</b> , Indian Institute of Science Education and Research, Bhopal, India <i>"Insights into molecular switch: crystal structure analysis of wild-type and fast hydrolyzing mutant of EhRabX3, a tandem ras superfamily GTPase from Entamoeba histolytica"</i> #MS16-PS1
MS16	<b>Debashish Chattopadhyay</b> , University of Alabama at Birmingham, USA <i>"High resolution crystal structures of protein phosphatase5- inhibitor complex provide insight for selectivity"</i> #MS16-PS2
MS16	<b>Shabnam Tarahi Tabrizi</b> , Macquarie University, Australia <i>"Crystal structure of GUN4 protein and its function in singlet oxygen production and chloroplast to nucleus signalling"</i> #MS16-PS3
MS16	<b>Ashok Varma</b> , Advanced Centre for Treatment Research and Education in Cancer, India <i>"Structural characterization of extended N-terminal of BRCA1 BRCTs"</i> #MS16-PS4
MS17	<b>Ramakrishna Gowda</b> , Govt College for Women Kolar, India <i>"Crystal structure of 4-[5-Chloro-3-(4-chloro-phenyl) benzofuran -2-yl]-6 methyl-chromen -2-one"</i> #MS17-PS1
MS17	<b>Udaya Bhaskara Rao Khandavilli</b> , University College Cork, Ireland, <i>"Crystal engineering, a solution to solid problems of chemistry"</i> #MS16-PS2
MS17	<b>Mohan Bhadbhade</b> , University of New South Wales, Australia <i>"Synchrotron studies on inclusion behaviour of herbicides: simazine, atrazine and terbuthylazine"</i> #MS16-PS3
MS18	<b>Md. Amran Hossain</b> , Kyoto Institute of Technology, Japan <i>"Melt-isothermal crystallization behavior and melt viscosity of poly(3-hydroxybutyrate-co-3hydroxyhexanoate) thin films"</i> #MS18-PS1

MS18	<b>Andreas Kleine</b> , Incoatec GmbH, Germany <i>"Upgrading SAXS setups with Incoateca 's microfocus source and/or scatterless pinholes SCATEX"</i> #MS18-PS2
<b>Conference Dinner - Sponsored by Rigaku</b>	
19:00 – 22:00	Swabhumi, Kolkata
<b>DAY-4: TUESDAY, DECEMBER 8, 2015</b>	
<b>Keynote Session - IV</b>	
09:15 - 10:00	Mini Hall
Chair:	<b>Peter Czabotar</b> , Walter and Eliza Hall Institute of Medical Research, Australia
Speakers:	<b>Haitao Li</b> , Tsinghua University, China <i>"Mark the "readership" for transcription control" #KN-4</i>
<b>Keynote Session - V</b>	
09:15 - 10:00	Hall-1
Chair:	<b>Masaki Kawano</b> , Tokyo Institute of Technology, Japan
Speakers:	<b>Parimal Bharadwaj</b> , Indian Institute of Technology Kharagpur, India <i>"Studies on metal organic frameworks through chemical crystallography" #KN-5</i>
<b>Morning Coffee</b>	

10:00 – 10:30	Pre Function Area, Mini Hall
<b>Microsymposium 13 – Hot Structures in Biology</b>	
10:30 – 12:30	Mini Hall
Co-Chairs:	<b>Rajan Sankaranarayanan</b> , Centre for Cellular and Molecular Biology, Hyderabad, India <b>Ruchi Anand</b> , Indian Institute of Technology, Mumbai, India
30 minutes	<b>Yanli Wang</b> , Institute of Biophysics, China <i>"Crystal structure of the RNA-guided immune surveillance cascade complex" #MS13-1</i>
30 minutes	<b>Ryuichiro Ishitani</b> , The University of Tokyo, Japan <i>"Molecular mechanisms of membrane transporter" #MS13-2</i>
20 minutes	<b>Saikrishnan Kayarat</b> , Indian Institute of Science Education and Research, Pune, India <i>"Structure based mechanism of translocation coupled nucleolytic cleavage by Type ISP restriction-modification enzymes" #MS13-3</i>
20 minutes	<b>Julian Vivian</b> , Monash University, Australia <i>"Immune surveillance: Viral escape and drug hypersensitivity" #MS13-4</i>
20 minutes	<b>Jayaraman Sivaraman</b> , National University of Singapore, Singapore <i>"Neutralization mechanism of hepatitis E virus by monoclonal antibodies" #MS13-5</i>
<b>Microsymposium 14 – Chemical Crystallography: Hot Structures</b>	
10:30 – 12:30	Hall-1
Co-Chairs:	<b>Jan Wikaira</b> , University of Canterbury, NZ <b>Mohan Bhadbhade</b> , University of New South Wales, Australia

30 minutes	<b>Manabu Hoshino</b> , The University of Tokyo, Japan <i>"Chemical crystallography using the crystalline sponge method"</i> #MS14-1
20 minutes	<b>Mingwen Shi</b> , University of Western Australia, Australia <i>"How does the electrostatic nature of 18-crown-6 affect guest molecules upon complexation in the solid state?"</i> #MS14-3
20 minutes	<b>Gwilherm Nenert</b> , PANalytical, The Netherlands <i>"Crystal structure of hydrated fluorides <math>MF_2 \cdot 4H_2O</math> (<math>M = Zn, Ni, Co</math>): a combined approach"</i> #MS14-4
20 minutes	<b>Tanusri Dey</b> , Jadavpur University, India <i>"Three nimesulide derivatives: ab-initio structure determination from X-ray powder diffraction and molecular electrostatic potential analysis"</i> #MS14-5
<b>Microsymposium 15 – Nanocrystallography and Powder Diffraction</b>	
10:30 – 12:30	Hall-2
Co-Chairs:	<b>Arunachalm Ramanan</b> , Indian Institute of Technology, Delhi, India <b>Parthasarathi Dastidar</b> , Indian Association for the Cultivation of Science, Kolkata, India
30 minutes	<b>Masaki Kawano</b> , Pohang University of Science and Technology, Korea <i>"X-ray snapshots of labile species in interactive pores"</i> #MS15-1
30 minutes	<b>Venkataramanan Mahalingam</b> , Indian Institute of Science Education and Research, India <i>"Lanthanide-doped nanocrystals: Growth, luminescent properties and applications"</i> #MS15-2
20 minutes	<b>Bob He</b> , Bruker AXS, USA <i>"Recent advances in two-dimensional powder XRD"</i> #MS15-3

20 minutes	<b>Martin Schreyer</b> , Institute of Chemical and Engineering Sciences, Singapore <i>"Structure solution from a single multiphase powder" #MS15-4</i>
20 minutes	<b>Brendan Kennedy</b> , University of Sydney, Australia <i>"Understanding the interplay between the magnetic and crystal structure in <math>Sr_2YRuO_6</math>" #MS15-5</i>
<b>Lunch</b>	
12:30 – 13:30	Food Court
<b>Lunch Time Meeting - Meeting of the International Program Committee for AsCA 2016</b>	
12:30 – 13:30	Board Room
<b>Microsymposium 16 – Structural Biology of Signalling Pathways</b>	
13:30 – 15:30	Mini Hall
Co-Chairs:	<b>Shwu-Huey Liaw</b> , National Yang-Ming University, Taiwan <b>Hanna Yuan</b> , Academia Sinica, Taiwan
30 minutes	<b>Liang Tong</b> , Columbia University, USA <i>"Structure and function of cyclic-di-AMP signaling" #MS16-1</i>
30 minutes	<b>Shin-ichi Terawaki</b> , Gunma University, Japan <i>"Structural basis for regulation of cell differentiation signaling" #MS16-2</i>

20 minutes	<b>Mohammad Obayed Ullah</b> , North South University, Bangladesh <i>"The TLR signaling adaptor TRIF/TICAM-1 has an N-terminal helical domain with structural similarity to IFIT proteins"</i> #MS16-3
20 minutes	<b>Catherine Day</b> , University of Otago, New Zealand <i>"A new twist in the regulation of ubiquitin transfer by RING E3 ligases"</i> #MS16-4
20 minutes	<b>Angus Cowan</b> , Walter and Eliza Hall Institute of Medical Research, Australia <i>"Structural investigation of Bax oligomerisation"</i> #MS16-5
<b>Microsymposium 17 – Chemical Crystallography: General Interest</b>	
13:30 – 15:30	Hall-1
Co-Chairs:	<b>Ian Williams</b> , Hong Kong University of Science and Technology, Hong Kong <b>Srinivasan Natarajan</b> , SSCU, Indian Institute of Science, Bangalore, India
30 minutes	<b>Ashwini Nangia</b> , University of Hyderabad, India <i>"Chemical crystallography and human medicine"</i> #MS17-1
30 minutes	<b>Alison Edwards</b> , Australian Nuclear Science and Technology Organisation, Australia <i>"Crystal structure determination - beyond least-squares refinement"</i> #MS17-2
20 minutes	<b>Fraser White</b> , Rigaku Corporation, UK <i>"Getting more from data processing with CrysAlisPro"</i> #MS17-3
20 minutes	<b>Swastik Mondal</b> , Max-Planck-Institut für Kohlenforschung, Germany <i>"Unravelling the mysteries of boron carbide"</i> #MS17-4

20 minutes	<b>Srinivasulu Aitipamula</b> , Institute of Chemical and Engineering Sciences, Singapore <i>"Insights into cocrystal-excipient compatibility: griseofulvin-acesulfame cocrystal hydrate as a model system" #MS17-5</i>
<b>Microsymposium 18 – Small Angle Scattering</b>	
13:30 – 15:30	Hall-2
Co-Chairs:	<b>Sono Sasaki</b> , Kyoto Institute of Technology, Japan <b>Yoshiyuki Amemiya</b> , University of Tokyo, Japan
30 minutes	<b>Yuya Shinohara</b> , Department of Advanced Materials Science, The University of Tokyo <i>"Anomalous small-angle X-ray scattering of rubber at sulfur K-edge" #MS18-1</i>
30 minutes	<b>Chun-Jen Su</b> , National Synchrotron Radiation Research Centre, Taiwan <i>"Competition between entropy and enthalpy in the binding of melittin with ULV vesicles of different phosphate lipid chain lengths" #MS18-2</i>
20 minutes	<b>Angela Criswell</b> , Rigaku Oxford Diffraction, USA <i>"Biological solution scattering studies using a HyPix-3000 hybrid pixel array detector" #MS18-3</i>
20 minutes	<b>Jitendra Mata</b> , Australian Nuclear Science and Technology Organisation, Australia <i>"Quokka - The 40 M pinhole SANS instrument at the opal reactor", #MS18-4</i>
20 minutes	<b>Bhoje Gowd</b> , CSIR-National Institute for Interdisciplinary Science and Technology, India <i>"Pathways of cylindrical orientations in PS-b-P4VP diblock copolymer thin films upon solvent vapor annealing" #MS18-5</i>
<b>Afternoon Tea</b>	
15:30 – 16:00	Pre Function Area, Mini Hall

## Rising Star Session

16:00 – 17:30	Mini Hall
Chair:	<b>Jenny Martin</b> , University of Queensland, Australia
15 minutes	<b>Sajesh Thomas</b> , University of Western Australia, Australia <i>"Insights into mechanical properties of molecular crystals from energy frameworks and quantum crystallography"</i> #RS-1
15 minutes	<b>Rajesh Ghai</b> , University of New South Wales, Australia <i>"Molecular mechanism of ER-plasma membrane junction maintenance by integral ER membrane proteins, ORP5/ORP8"</i> #RS-2
15 minutes	<b>Vidya Mangala Prasad</b> , Purdue University, USA <i>"Structural studies on the rubella virus capsid protein and its implications on the virion structure"</i> , #RS-3
15 minutes	<b>Michelle Christie</b> , University of Queensland, Australia <i>"Opening up to vesicle fusion: The effect of Munc18c and membrane anchoring on Syntaxin-4 function"</i> #RS-4
15 minutes	<b>Rahul Shukla</b> , Indian Institute of Science Education and Research, India <i>"Crystallographic and computational investigation of intermolecular interactions involving organic fluorine with relevance to the hybridization of the carbon atom"</i> #RS-5
15 minutes	<b>Suman Bhattacharya</b> , Indian Association for the Cultivation of Science, India <i>"Thermal expansion and hydrogen bonds: a case study on polymorphic systems with different hydrogen bond dimensionalities"</i> #RS-6

## Plenary Session - IV



17:30 – 18:30	Mini Hall
Chair:	<b>Mitchell Guss</b> , University of Sydney, Australia
Speaker:	<b>Mamannamana Vijayan</b> , Indian Institute of Science, Bangalore, India <i>"Structural diversity and ligand specificity in lectins. From plants to Mycobacteria" #PL-4</i>
<b>Closing Ceremony</b>	
18:30 – 18:45	Mini Hall



### Conference Organiser

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