	IITB - Kyoto Meet
	Organized by Chemistry Department IIT Bombay
Time	Sustainability & Catalysis Session I Venue: Room no. 12
11:45 - 12:45	Lunch at VMCC First Floor Foyer
12:45 - 13:00	Inauguration
	Chairperson: Prof. G. Rajaraman & Prof. Chidambar Kulkarni
13:00 – 13:30	Computation and Data Science for Molecular Self-assembly and MOF Sensors Prof. Daniel Packwood, iCeMS, Kyoto University, Japan
13:30 – 14:00	Photostable Mn-catalysts for CO <sub>2</sub> Conversion <b>Prof. Arnab Dutta</b> , <i>IIT Bombay, India</i>
14:00 – 14:15	Peripheral nucleic bases boost H <sub>2</sub> production by synthetic molecular catalysts in acidic water <b>Chandan Das, <i>IIT Bombay, India</i></b>
14:15 – 14:30	MOF-based Biomimetic Porous Liquids for Direct Air CO <sub>2</sub> capture and conversion <b>Rishabh Dubey, <i>IIT Bombay, India</i></b>
14:30 – 14 <mark>:</mark> 45	MOF-Driven Stabilization and Magnetic Property Optimization in Dyprosocenium and Gd-Fullerene Systems <b>Garima, IIT Bombay, India</b>
14:45 – 15:00	Pyr <mark>imidi</mark> ne Synthesis by Dehydrogenative coupling of Alcohols and Amidines Catalysed by Ruthenium Dipyrrinato complexes <b>Hemant Laxman Rawool, <i>IIT Bombay, India</i></b>
15:00 – 15:30	Iron Cluster Complexes Supported by Hydrides and Phosphines Prof. Yasuhiro Ohki ICR, Kyoto University, Japan
15:30 - 16:00	Tea Break
	Chairperson: Prof. Prasenjit Ghosh & Prof. Sanjog S. Nagarkar
16:00 – 16:30	Metal Phosphate Molecules and Materials Prof. R. Murugavel IIT Bombay, India
16:30 – 17:00	Precursor approach for the Development of Functional Organic Materials Prof. Hiroko Yamada ICR, Kyoto University, Japan
17:00 – 17:15	Modulating Magnetic Anisotropy in Six-Coordinated Cobalt(II) Complexes Dipanti Borah, IIT Bombay, India
17:15 - 17:30	and Catalytic Efficiency Astam Mandal, IIT Bombay, India
17:30 - 17:45	Modulating the melting and glassy behavior of Coordination Polymers Himani, IIT Bombay, India
17:45 - 18:00	Design and synthesis of oligopyrrolic ligands and their coordination chemistry Pinky Chauhan, IIT Bombay, India

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## IITB - Kyoto Meet

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	Materials & Spectroscopy
Time	Session II
	Venue: Room no. 13
11:45 -12:45	Lunch at VMCC First Floor Foyer
12:45 -13:00	Inauguration
	Chairperson: Prof. Anil Kumar & Prof. Srinivasan Ramakrishnan
13:00 –13:30	Phonon engineered nanocarbons for photothermal conversion: from fundamentals to applications <b>Prof. C. Subramaniam,</b> <i>IIT Bombay, India</i>
13:30 –14:00	Intracellular delivery by integrating plasmonic nanowire and photoresponsive materials <b>Prof. Tomoko Inose,</b> iCeMS, Kyoto University, Japan
14:00 -14:15	Osmolyte-induced Conformational Stabilization of a Hydrophobic Polymer Pooja Nanavare, IIT Bombay, India
14:15 –14:30	Structural Fine-tuning to Achieve Highly Fluorescent Organic and Water- soluble Thiazolo[5,4-d]thiazole Chromophores Akshay Suresh Thorat, IIT Bombay, India
14:30 -14:45	Electroluminescence Blinking in Hybrid Halide Perovskite Crystals Shruti Singh, IIT Bombay, India
14:45 –15:00	Interplay of polarity and aggregation-induced processes in the fluorescence of a donor-acceptor-donor fluorophore with terephthalate core Arkaprava Chowdhury, IIT Bombay, India
15:00 -15:30	Liquid Crystals for Protein Sensing Prof. Kamendra P. Sharma, IIT Bombay, India
15:30 -16:00	Tea Break
	Chairperson: Prof. Aníndya Datta & Prof. Rajarshi Chakrabartí
16:00 –16:30	Introduction to 'Advanced Research Center for Beam Science' and 'Laboratory for Laser-Matter Interaction Science' <b>Prof. Shigeki Tokita</b> , ICR, Kyoto University, Japan
16:30 -17:00	Recent research topics in Nanospintronics Lab of ICR Prof. Teruo Ono, ICR, Kyoto University, Japan
17:00 –17:15	Development of a Compact Ansatz via Operator Commutativity Screening for the Determination of Molecular Energetics in the Quantum Computing Framework Dibyendu Mondal, IIT Bombay, India
17:15 -17:30	Light-Matter Interaction in the Relativistic Domain Sudipta Chakraborty, IIT Bombay, India
17:30 -17:45	Corrections to the independent electron surface hopping algorithm Chinmay Pradhan, IIT Bombay, India
17:45 -18:00	When does a proton move? Bijaya Pathak, IIT Bombay, India

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	Chemical Biology
Time	Session III
	Venue: Room no. 14
11:45 - 12:45	Lunch at VMCC First Floor Foyer
12:45 - 13:00	Inauguration
	Chairperson: Prof. Santosh J. Gharpure & Prof. Chandra M. R. Volla
	Nucleic acid based small molecules for therapeutic gene modulation
13:00 - 13:30	Prof. Ganesh Pandian Namasivayam,
	Enigenetic Degulation of Neurological Disorders: Delo of Lysing
	Acetyltransferases p300/CBP
13:30 - 14:00	Prof. Tapas Kumar Kundu,
	JNCASR, Bangalore, India
	A Synthetic Antibiotic Class Targets Bacteria with a Two-Pronged Approach
14:00 - 14:15	Akash Dutta, IIT Bombay, India
	From drug delivery to self-assembly: Understanding prevention and exploring
14:15 - 14:30	the application of protein fibrils
	Anu Jain, IIT Bombay, India
14:30 - 14:45	Combating Antibiotic Resistance using DNA Aptamers
14.00 - 14.40	Leena Badgujar, <i>IIT Bombay, India</i>
14:45 - 15:00	Unravelling the effect of hypoxia-mediated cell cycle dynamics of breast
	cancer cell lines
	Shreyasi Modak, III Bombay, India
15:00 - 15:30	Deactivation of a growth-promoting plant hormone in rice
	ICR, Kyoto University, Japan
15:30 - 16:00	Tea Break
	Chairperson: Prof. Kríshna P. Kalíappan & Prof. Pradeepkumar P. I.
	Development of peptide-macrolide conjugates as new age antibiotics: efforts
16:00 - 16:30	towards curbing antibiotic resistance
10.00	Prof. Ruchi Anand
	III Bombay, India
16:30 - 17:00	Covalent and Non-Covalent Small Molecules That Potentiate Antitumor
	Prof. Motongri Uesugi
	iCeMS, Kyoto University, Japan
	Cystine based palindromic peptide as potential anion transporters and selective
17:00 -17:15	therapeutic agent against TNBCs
17:15 –17:30	Monitoring the slow folding (unfolding of a protoin PfaH by <sup>19</sup> E NMP line shape
	analysis and stopped-flow kinetics
	R. Aishwarya Bhuvaneshwari , IIT Bombay, India
17:30 -17:45	Decoding the role of mycobacterial lipid remodelling and membrane dynamics
	in antibiotic tolerance
17:45 -18:00	Anjana P Menon, IIT Bombay, India
	All Rare Sugar Containing Trisaccharide Unit of Pseudomonas stutzeri OX1
	Amar Kumar Mishra, IIT Bombay, India