



2<sup>nd</sup> International RMBPD Colloquium  
**Deciphering Bioregulatory Mechanism in  
Health and Disease using 'Omics' Approach**

Sponsored by UGC-Special Assistance Program  
February 24-25, 2022  
Commemorating 100 years of University of Delhi



**Commemorating 100 years of University of Delhi  
and 75 years of Department of Zoology**

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**Scientific Program**  
**February 24-25, 2022**

[Note: All times indicated in the program refers to Indian Standard Time (+5.30hr GMT)]

**Department of Zoology, University of Delhi**





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Day 1, February 24, 2022, Thursday		
Time	Program Details	Mode of Presentation
8:00 AM	<b>Registration and Confirmation of Online Attendees</b>	
9:00 AM	<b>Session 1: Cancer Causation and Biomarkers</b> <b>Chairpersons: Prof. Daman Saluja &amp; Dr. Manoj Kashyap</b>	
9:05 - 9:35 AM	<b>IL1: Unraveling the Mechanistic Connections Between Microbiome and Breast Cancer: An Ever-Evolving Story</b> <b>Prof. Dipali Sharma</b> <i>Professor of Oncology, Women's Malignancies Disease Group, Department of Oncology, Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, UNITED STATES OF AMERICA.</i>	Online
9:40 – 10:10 AM	<b>IL2: Multi-omics Analysis: From Therapeutic Targets and Biomarkers in Cancer to Predicting COVID Severity</b> <b>Prof. Akhilesh Pandey</b> <i>Professor, Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota, UNITED STATES OF AMERICA.</i>	Online
10:15-10:45 AM	<b>IL3: Mitochondrial Journey of Human Cancer</b> <b>Dr. Santanu Dasgupta</b> <i>Assistant Professor of Pathology, Head- Mitochondria Research Laboratory, Mitchell Cancer Institute, Alabama, UNITED STATES OF AMERICA.</i>	Online
10:45 – 11:00 AM	<b>Coffee/tea Break</b>	
11:00 AM	<b>Inaugural Function</b>	
12:15 PM	<b>Session 2: Prof. M.L. Bhatia Memorial Lecture - 2022</b> <b>Chairpersons: Prof. Yogendra Singh &amp; Prof. Neeta Sehgal</b>	
	<b>ML1: Covid Pandemic: The Inside Story</b> <b>Dr. Anurag Agrawal</b> <i>Director, CSIR-Institute of Genomics and Integrative Biology, New Delhi, INDIA.</i>	Offline
1:00 PM	<b>Lunch and concurrent Poster Presentations/Painting display (online/offline)</b>	
2:00 PM	<b>Session 3: SARS-CoV and Omics</b> <b>Chairpersons: Prof. M.M. Chaturvedi &amp; Prof. L.R. Singh</b>	

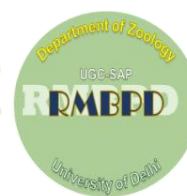






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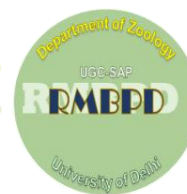
2:05- 2:35 PM	<b>IL4: OMICS and Omicron: Co-infections as Modulators of Disease Severity and Clinical Outcome</b> <b>Dr. Rajesh Pandey</b> <i>Principal Scientist, CSIR-Institute of Genomics and Integrative Biology, New Delhi, INDIA.</i>	Offline
2:40- 3:00 PM	<b>IL5: Multi-omics Analysis of Respiratory Specimen Characterizes Baseline Molecular Determinants Associated with SARS-CoV-2 Outcome</b> <b>Dr. Jaswinder Singh Maras</b> <i>Assistant Professor, Department of Molecular and Cellular Medicine, Institute of Liver and Biliary Diseases, New Delhi, INDIA.</i>	Offline
3:10 PM	<b>Session 4: Host Pathogen Interaction - I</b> <b>Chairpersons: Prof. Rup Lal &amp; Prof. K. Natarajan</b>	
3:15- 3:45 PM	<b>IL6: Role of Protein Kinases and Phosphatases in Virulence and Survival of Pathogenic Bacteria</b> <b>Prof. Yogendra Singh</b> <i>Professor, Department of Zoology, University of Delhi, New Delhi, INDIA.</i>	Offline
3:50- 4:20 PM	<b>IL7: Identification of Novel Drug Targets by Interaction Network Analysis</b> <b>Dr. Dinesh Gupta</b> <i>Group Leader, Translational Bioinformatics Group, International Centre for Genetic Engineering and Biotechnology, New Delhi, INDIA.</i>	Offline
4:25- 4:45 PM	<b>IL8: Fish Gut Microbiome: Implications for Human Health</b> <b>Prof. Ram K. Negi</b> <i>Professor, Department of Zoology, University of Delhi, New Delhi, INDIA.</i>	Offline
4:45 - 5:00 PM	<b>Coffee/tea Break</b>	
5:00 PM	<b>Session 5: Host Pathogen Interaction - II</b> <b>Chairpersons: Prof. Shibnath Mazumder &amp; Prof. Anju Katyal</b>	
5:05 - 5:35 PM	<b>IL9: Salt triggers Anti-tumor Immunity through Modulation of Gut Microbiota</b> <b>Prof. Amit Awasthi</b> <i>Professor, Translational Health Science and Technology Institute, New Delhi, INDIA.</i>	Offline
5:40 -6:10 PM	<b>IL10: Molecular Flexibility of <i>Mycobacterium marinum</i> Type III Polyketide Synthases and Modifying Enzymes</b> <b>Dr. Priti Saxena</b> <i>Senior Assistant Professor, Faculty of Life Sciences and Biotechnology, South Asian University, New Delhi, INDIA.</i>	Online
6:15 - 6:45PM	<b>IL11: Ticks Caught Red-handed- Tick Immunity Through mRNA Vaccines</b> <b>Dr. Andaleeb Sajid</b>	Online





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	National Institutes of Health, UNITED STATES OF AMERICA.	
6:45 PM	<b>End of Day 1 Academic Session</b>	
	<b>Cultural Program and Dinner (Department of Zoology – Central Lawn – 'Amrit Vatika)</b>	

Day 2, February 25, 2022, Friday		
Time	Program Details	Mode of Presentation
7:45 AM	<b>Registration and Confirmation of Online Attendees</b>	
8:00 - 9:00 AM	<b>Session 6: Oral Presentations - I</b> <b>Chairpersons: Prof. Namita Agrawal &amp; Dr. Soma M. Ghorai</b>	
8:00 - 8:10 AM	<b>OP1: Molecular Changes Associated with Spring Migratory Departure in Obligate Migratory Songbirds</b> <b>Dr. Aakansha Sharma</b> <i>Department of Zoology, University of Delhi, New Delhi, INDIA.</i>	Offline
8:12 - 8:22 AM	<b>OP2: Explored Anti-inflammatory Potential of Interleukin-1 Receptor-Associated Kinases (IRAKs) Inhibitor in <i>C. acnes</i> Stimulated Keratinocytes</b> <b>Dr. Vijay Singh</b> <i>CSIR-IGIB, New Delhi, INDIA.</i>	Online
8:24 - 8:34 AM	<b>OP3: Hyperglycemia Instigated Male Reproductive Transmutations and Melioration by Malabar Plum (<i>Syzygium cumuni</i>) Seed Powder on Sperm Profile</b> <b>Dr. Kumari Rekha</b> <i>Department of Zoology, TMBU, Bhagalpur, Bihar, INDIA.</i>	Online
8:36 - 8:44AM	<b>OP4: Prevention of Inorganic Arsenic Induced Squamous Cell Carcinoma of The Skin In Swiss Albino Mice By Black Tea Through Posttranslational Epigenetic Modulations</b> <b>Mr. Archismaan Ghosh</b> <i>Chhittaranjan National Cancer Institute, Kolkata, INDIA.</i>	Online
8:44 - 8:52 AM	<b>OP5: A Bioinformatics Approach to Reveal Core Genes and Molecular Pathways Shared by Cutaneous and Uveal Melanoma</b> <b>Ms. Khushneet Kaur</b> <i>Amity University, Noida, INDIA.</i>	Online
9:00 AM	<b>Session 7: Behaviour and Chronobiology</b> <b>Chairpersons: Prof. Vinod Kumar &amp; Prof. A.K. Singh</b>	

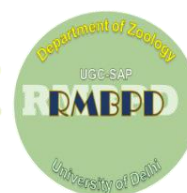






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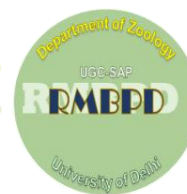
9:05 - 09:35 AM	<b>IL12: Understanding Infradian Rhythms by Multi-omics Approach</b> <b>Prof. Takashi Yoshimura</b> <i>Professor, Institute of Transformative Bio-Molecules, nWPI-ITbM, Nagoya University, JAPAN.</i>	Online
09:40 - 10:10 AM	<b>IL13: The Role of Circadian System in Health and Evolutionary Fitness</b> <b>Dr. Bala S. C. Koritala</b> <i>Research Associate, Cincinnati Children's Hospital Medical Center, Ohio, UNITED STATES OF AMERICA.</i>	Online
10:15 - 10:30 AM	<b>Coffee/tea Break</b>	
10:30 AM	<b>Session 8: Cancer Heterogeneity and Management</b> <b>Chairpersons: Prof. V.K. Bhasin, Prof. Madhu Chopra, Dr. Manisha Sanger</b>	
10:35 - 11:05 AM	<b>IL14: Genome Based Solutions for Managing Cancer Treatment</b> <b>Prof. Gajendra P.S. Raghava</b> <i>Professor &amp; Head, Department of Computational Biology, Indraprastha Institute of Information Technology (IIIT), New Delhi, INDIA.</i>	Online
11:10 - 11:40 AM	<b>IL15: Genetic Alterations and Microbial Dysbiosis Underlie Lymph Nodal Metastasis in Tongue Cancer</b> <b>Dr. Amit Dutt</b> <i>Principal Investigator and Scientist G, Tata Memorial Centre, ACTREC, Navi Mumbai, INDIA.</i>	Online
11:45 AM - 12:15 PM	<b>IL16: Omics Data in Health and Disease: How They Speak to You Using Bioinformatics</b> <b>Prof. Thomas Dandekar</b> <i>Chair, Department of Bioinformatics, Biocenter, Am Hubland, University of Würzburg, Würzburg, GERMANY.</i>	Online
12:15 PM	<b>Session 9: Prof. C.P. Alexander Memorial Lecture -2022</b> <b>Chairpersons: Prof. Rakesh K. Seth &amp; Prof. Dileep K. Singh</b>	
	<b>PL2: Challenges and New Strategies to Manage Invasive Rice Pests in the Changing Climate: The Philippine Experience</b> <b>Dr. Ravindra Chandra Joshi</b> <i>Senior Consultant, Philippine Rice Research Institute, PHILIPPINES.</i>	Online
1:00 PM	<b>Lunch and concurrent Poster Presentations/Painting display (online/offline)</b>	
2:00- 2:20 PM	<b>Session 10: Sponsored Session – Premas</b> <b>Chairpersons : Prof. Anju Shrivastava &amp; Prof. Ram K. Negi</b>	
2:00-2:20 PM	<b>SL1: High Throughput Single Cell and Spatial Genomics for Resolving the Heterogeneity of Cancer</b>	Offline





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	<b>Dr. Nitya Nand Sharma</b> <i>Premas Life Sciences Pvt Ltd, New Delhi, INDIA.</i>	
2:30- 3:30 PM	<b>Session 11: Oral Presentations – II</b> <b>Chairpersons: Prof. Namita Agrawal &amp; Dr. Soma M. Ghorai</b>	
2:30 - 2:40 PM	<b>OP6: Assessment of Autochthonous Sewage Water Bacteria for their Bioremediation Potential</b> <b>Ms. Sapna</b> <i>Kurukshetra University, Kurukshetra. Haryana, INDIA.</i>	Online
2:40 - 2:50 PM	<b>OP7: Immunoinformatics–A New Perspective to Design an Adjuvanted Vaccine for Tuberculosis using Dormancy Antigens</b> <b>Ms. Parul Bhatt</b> <i>Miranda House, University of Delhi, Delhi, INDIA.</i>	Online
2:50 - 3:00 PM	<b>OP8: Identification Of Novel Myeloid Cell Leukemia 1 (MCL-1) Inhibitors: An Omics Perspective</b> <b>Ms. Pooja Mittal</b> <i>Deshbandhu College, University of Delhi, Delhi, INDIA.</i>	Online
3:00 - 3:10 PM	<b>OP9: PE_PGRS1 (Rv0109) of Mycobacterium tuberculosis Modulates Host Cell Death Pathways by Targeting Host Mitochondria and Promotes Pathogen Persistence</b> <b>Ms. Priyanka</b> <i>Miranda House, University of Delhi, Delhi, INDIA.</i>	Offline
3:10 - 3:20 PM	<b>OP10: Lc-ms based Phytochemical Analysis of <i>Ficus bengalensis</i> and its Applications in Health and Disease</b> <b>Ms. Preeti Singh</b> <i>Maharshi Dayanand University, Rohtak, Haryana, INDIA.</i>	Online
3:20-3:25 PM	<b>OP11: Assessing the Clinical Relevance of Gastric Cancer Cell Lines as Tumor Models by Identifying Core Genes and miRNAs Involved in EMT Metastasis Pathway</b> <b>Ms. Shreya Taluja</b> <i>Sri Venkateswara College, University of Delhi, Delhi, INDIA</i>	Online
03:30 PM	<b>Session 12: Genetics, Epigenetics and Directed Evolution</b> <b>Chairpersons: Prof. Rajagopal Raman &amp; Prof. Mallikarjun S.</b>	
3:35 - 4:05 PM	<b>IL17: Epigenetic Control of Pluripotent Cell Type Conversions</b> <b>Dr. Andrew P. Hutchins</b> <i>Associate Professor, Department of Biology, Southern University of Science and Technology (SUSTech), Shenzhen, CHINA.</i>	Online







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4:10 - 4:40 PM	<b>IL18: Breaking Reprogramming Barrier towards Diverse Stem Cell Types with Engineered SOX17</b> <b>Dr. Ralf Jauch</b> <i>Associate Professor, Department of Li Ka Shing, Faculty of Medicine, The University of Hong Kong, HONG KONG.</i>	Online
4:45 – 5:15 PM	<b>IL19: Data driven Genomics of Protein-DNA Interactions: Sequences, Structure and Transcription</b> <b>Prof. Shandar Ahmad</b> <i>Professor, School of Computational and Integrative Sciences, Jawaharlal Nehru University, New Delhi, INDIA.</i>	Offline
5:15PM Onwards	<b>Valedictory Function and Prize Distribution</b>	
	<b>High Tea</b>	

