

2nd International Conference on Recent Innovations in Biological, Chemical and Clinical Sciences



PROGRAM SCHEDULE

MAY 6th, 2025

DAY 1

Time	Event
8:00 – 9:00 am	Registration

INAUGURATION

Time` : 9:00am – 10:00am
Venue : Dato' Pathmanaban Hall

HIGH TEA

Time` : 10:00am – 10:10am
Venue : Dato' Pathmanaban Hall

TECHNICAL SESSION - 1

Time` : 10:10am – 11:15am
Session Chair: Dr. Rajeev Mehta, India
Session Chair: Dr. Gulshan Wadhwa, India
Session Chair: Assoc. Prof. Dr. Mila Nu Nu Htay, MUCM
Moderator : Dr. Tang Hooi Chia, MUCM
Venue : Dato' Pathmanaban Hall

Time	Event
10:10am – 10:40am	Keynote Lecture 1: Prof. Paolo Giudici <i>“Low-cost and Effective Strategies for Food Improvements: Case Studies in Wine and Vinegar”</i>
10:40am – 11:10am	Keynote Lecture 2: Prof. Srikumar Chakravarthi <i>“Trailblazers in Clinical Medicine: Clinical Science Innovations Redefining Healthcare”</i>
11:10am – 11:15am	Break

TECHNICAL SESSION - 2 (PARALLEL 1)

Time : 11:15am - 1:00pm
Session Chair : Prof. B. R. Gadi, India
Session Chair : Prof. Htay Lwin, MUCM
Moderator : Assoc. Prof. Dr. Kamlesh Kumar Dubey, MUCM
Venue : Dato' Pathmanaban Hall

Time	Event
11:15am - 11:45am	Keynote Lecture 3: Dr. Gulshan Wadhwa <i>“Significant Innovations in Biological and Chemical Sciences”</i>
11:45am - 12:15pm	Plenary Lecture 1: Dr. Mok Pooi Ling <i>“Evaluating the Potential of Stem Cells for Treating Visual Dysfunction: Pre-clinical and Clinical Settings”</i>
12:15pm - 1:00pm	Plenary Lecture 2 & Quiz: Dr. Tikam Chand <i>“Genomic exploration of cBioPortal for biomarker discovery”</i> and <i>“Menti Quiz on Biological, Chemical and Clinical Sciences”</i>
1:00pm – 2:00pm	Lunch @ The Atrium – MUCM

TECHNICAL SESSION - 3 (PARALLEL 2)

Time : 11:15am - 5:00pm
Session Chair: Assoc. Prof. Dr. Anita Devi Krishnan Thantry, MUCM
Session Chair: Prof. Tin Tun, MUCM
Moderator : Dr. Chandrika Murugiah & Mr. Anand Kukkamalla, MUCM
Venue : ACB-9-C1 (11:15am – 1.00pm); ACB-1-LT1 (2:00pm – 5:00pm)

Time	Event
11:15am - 1:00pm	Clinical Updates
2:00pm - 5:00pm	
1:00pm - 2:00pm	Lunch @ The Atrium – MUCM

TECHNICAL SESSION - 4 (PARALLEL 1)

Time : 2:00pm – 4:30pm
Session Chair : Prof. Paolo Giudici, Italy
Session Chair : Prof. Arvind Deshmukh, MBSI, India
Session Chair : Dr. Tikam Chand Dakal, India
Moderator : Dr. Nur Izzati Ismail, MUCM
Venue : Dato' Pathmanaban Hall

Time	Event
2:00pm - 2:30pm	Keynote Lecture 4: Prof. B.R. Gadi <i>“Biotechnological advances for abiotic stress tolerance of plants”</i>
2:30pm – 3:00pm	Plenary Lecture 3: Dr. Mukesh Meghvansi <i>“Biodigester: a sustainable technology having potential to transform global sanitation landscapes”</i>
3:00pm – 4:30pm	Invited Talks (Online & Offline)

TECHNICAL SESSION - 5 (PARALLEL 2)

Time : 2:00pm – 4:30 pm
Session Chair : Prof. Roche Ronald Aloysius, MUCM
Session Chair : Prof. Sugapriya Dhanasekaran, MUCM
Venue : ACB-2-C4

Time	Event
2:00pm – 4:30pm	Oral Presentation 1 (Offline): Student Category

TECHNICAL SESSION - 6 (PARALLEL 3)

Time : 2:00pm – 4:30pm
Session Chair: Prof. Maya Roche, MUCM
Session Chair: Assoc. Prof. Dr. Ganesh Kamath, MUCM
Venue : ACB-2-C5

Time	Event
2:00pm – 4:30pm	Oral Presentation 2 (Offline & Online): Student Category

TECHNICAL SESSION - 7 (PARALLEL 4)

Time : 2:00pm – 4:30pm
Session Chair: Assoc. Prof. Dr. Rekha Prabhu, MUCM
Session Chair: Dr Thin Mon Kyaw, MUCM
Venue : ACB-1-C6

Time	Event
2:00pm – 4:30pm	Oral Presentation 3 (Online): Student Category

4:30pm – 5:00pm: High Tea @ Respective venues



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MAY 7th, 2025

DAY 2

TECHNICAL SESSION – 8

Time : 9:00am – 10:30am
Session Chair: Prof. Sudha Summarwar, India
Session Chair: Dr. Tikam Chand Dakal, India
Session Chair: Assoc. Prof. Dr. Zachariah Varkki, MUCM
Moderator : Mr. Kalidasan Vasodavan, MUCM
Venue : Dato' Pathmanaban Hall

Time	Event
9:00am – 9:30am	Plenary Lecture 4 (Online): Dr. Hector Rodrigo Mendez <i>“Minor Spliceopathy Identification via Transcriptome-Wide Outlier Analysis”</i>
9:30am – 10:00am	Plenary Lecture 5 (Online): Prof. Sarath Babu K
10:00am – 10:30am	Plenary Lecture 6 (Online): Prof. Abhishek Kumar <i>“Targeting the Core of SARS-CoV-2: Multi-Faceted Insights into the Nucleocapsid Protein’s Motifs, Epitopes, and Drug Binding Sites”</i>
10:30am - 10:50am	High Tea

TECHNICAL SESSION - 9 (PARALLEL 1)

Time : 10:50am – 1:00pm
Session Chair: Dr. Mukesh Meghvansi, India
Session Chair: Prof. Nirmal Kumar Sinha, MUCM
Session Chair: Dr. Kaustuvmani Patowary, India
Moderator : Dr. Seetha Munisamy, MUCM
Venue : Dato' Pathmanaban Hall

Time	Event
10:50am – 11:20am	Plenary Lecture 7 (Online): Dr. Jingjing Pu <i>“Synergistic Effects and Mechanisms of Epigenetic Inhibitors in Enhancing Immunotherapy for Multiple Myeloma”</i>
11:20am – 1:00pm	Invited Talks (Offline)
1:00pm – 2:00pm	Lunch – The Atrium @ MUCM

TECHNICAL SESSION - 10 (PARALLEL 2)

Time : 10:50am – 1:00pm
Session Chair: Prof. Neena Chuni, MUCM
Session Chair: Dr. Anita Rana, India
Session Chair: Dr. Garima Agarwal, India
Venue : ACB-2-C3

Time	Event
10:50am – 1:00pm	Oral Presentation 4 (Online & Offline): Faculty Category
1:00pm – 2:00pm	Lunch – The Atrium @ MUCM

TECHNICAL SESSION - 11 (PARALLEL 3)

Time : 10:50am – 1:00pm
Session Chair: Prof. Shirani Ranasinghe, MUCM
Session Chair : Dr. Narendra Kumar Sharma, India
Session Chair : Dr. Shahdab Hussain, India
Venue : ACB-1-C1

Time	Event
10:50am – 1:00pm	Poster Presentation 1 (Online & Offline): Student Category
1:00pm – 2:00pm	Lunch – The Atrium @ MUCM

TECHNICAL SESSION - 12 (PARALLEL 4)

Time : 10:50am – 1:00pm
Session Chair : Prof. Dr. Sandepta Burgula, India
Session Chair : Prof. Dr. M Ram Chander, India
Session Chair : Dr. Haryati Binti Ahmad Hairi, MUCM
Venue : ACB-1-C6

Time	Event
10:50am – 1:00pm	Poster Presentation 2 (Online & Offline): Faculty Category
1:00pm – 2:00pm	Lunch – The Atrium @ MUCM

TECHNICAL SESSION - 13

Time : 2:00pm - 3:00pm
Session Chair: Prof. Khin Thane Oo, MUCM
Session Chair: Prof. Preeti Mehta, India
Session Chair: Prof. Elangbam Athoiba Singh, India
Moderator : Mr. Baala Sharmma K. Balasubramaniam, MUCM
Venue : Dato' Pathmanaban Hall

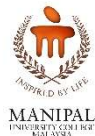
Time	Event
2:00pm – 2:30pm	Plenary Lecture 8 (Online): Dr. Amit Sharma <i>“Cytokine-induced Killer Cells, DC-CIK Cells in Glioblastoma Immunotherapy”</i>
2:30pm – 3:00pm	Plenary Lecture 9: Prof. Shuba Bhasu <i>“Genomic signals and Colorectal Cancer: A Biological Blueprint for AI-Driven Early Detection”</i>

VALEDICTORY PROGRAM AND AWARD DISTRIBUTION

Time : 3:00pm – 4.30pm
Venue: Dato' Pathmanaban Hall

HIGH TEA

Time : 4:30pm – 5.00pm
Venue: Dato' Pathmanaban Hall



2nd International Conference on Recent Innovations in Biological, Chemical and Clinical Sciences



PROGRAM ITINERARY MAY 6th, 2025 (DAY 1)

TECHNICAL SESSION - 4 (PARALLEL 1)

Invited Talks (Online & Offline)

Time : 3:00pm – 4:30pm
Session Chair : Prof. Paolo Giudici, Italy
Session Chair : Prof. Arvind Deshmukh, MBSI, India
Session Chair : Dr. Tikam Chand Dakal, India
Moderator : Dr. Nur Izzati Ismail, MUCM
Venue : Dato' Pathmanaban Hall

S. No	Time slot	Abstract Number	Title & Speakers
1	3:00 pm - 3:10 pm	IT-01	Isolation and Characterization of Multi Drug Resistant Non-fermenters from Different Clinical Specimens <i>Apurba Kumar Sarkar</i>
2	3:10 pm- 3:20 pm	IT-02	Bile transport in GI pathologies: Altered motility patterns as facilitator of duodenogastric reflux and possibly, occurrence of gastric carcinoma over a long-term persistence of reflux <i>Ravi Kant Avvari</i>
3	3:20 pm - 3:30 pm	IT-03	Association of Leucine rich alpha-2 glycoprotein in arthritis <i>Sagarika Biswas</i>
4	3:30 pm - 3:40 pm	IT-04	Cordyceps militaris-Loaded BSA-Chitosan Nanoparticles: A Promising Strategy Against Multidrug-Resistant Bacteria <i>Annesha Roy, Carolyne Mate, Kajal Kumari, Ramovatar Meena</i>
5	3:40 pm - 3:50 pm	IT-05	Biological healers in Modern Dentistry <i>N. Sayeeganesh</i>
6	3:50 pm - 4:00 pm	IT-06	The significance of Apolipoprotein E Protein Concentration in the Screening for Fetal Chromosomal Abnormalities <i>Azjargal Batdorj, Urjindelger Tserensambuu, Erdenetuya Ganbaatar, Gerelmaa Nansal, Munkhtsetseg Janlav</i>
7	4:00 pm - 4:10 pm	IT-07	Fabrication of Biosurfactant-Coated CuO Nanoparticles using Bacteria of Fermented Food Origin for Investigating Their Antimicrobial and Antioxidant Activities <i>Amlan Jyoti Gogoi, Jilimani Nath, Atipu Peme, Yugal Kishore Mohanta, Kaustuvmani Patowary</i>
8	4:10 pm - 4:20 pm	IT-08	Aspergillus Restrictus - The Next Obligate Halophile? <i>Valerie Gonsalves, Sarita W. Nazareth</i>
9	4:20 pm - 4:30 pm	IT-09	Silver Nanoparticle Synthesis and Their Role in Disease Management in Fisheries <i>Sudha Summarwar, Shahdab Hussain</i>
10	4:30 pm - 4:40 pm	IT-10	Buzzing the Alarms: Dead Bees and Their Byproducts Reveal Hidden Heavy Metal Pollution in India <i>Anita Rana</i>

TECHNICAL SESSION - 5 (PARALLEL 2)

Oral Presentation 1 (Offline): Student Category

Time : 2:00pm – 4:30 pm**Session Chair : Prof. Roche Ronald Aloysius, MUCM****Session Chair: Prof. Sugapriya Dhanasekaran, MUCM****Venue : ACB-2-C4**

S. No	Time slot	Abstract Number	Title & Speakers
1	2:00 pm - 2:10 pm	OPS-01	Inhibitory potential of bioactive compounds from <i>Petalium murex L.</i> extract against 2QV3 protein of <i>Helicobacter pylori</i> Abarna Ramananthatherthan, Sugapriya Dhanasekaran, Alagumanikumarar Nagarajan, Kannan Marikani, Ranjith Singh AJA
2	2:10 pm - 2:20 pm	OPS-02	Biotransformation of Rifamycin B to Rifamycin S and exploration of its anticancer potential Ekta Arya, Duni Chand
3	2:20 pm - 2:30 pm	OPS-03	CircRNA-miRNA-mRNA Regulatory Networks in Oral Cancer: Biomarker Investigations Kanoujiya Supriya Nandlal, Pooja Kumari, Jyoti Tiwari, Virendra Singh
4	2:30 pm - 2:40 pm	OPS-04	Integrative Analysis of circRNA-miRNA Interactions Reveals Novel Biomarkers in Breast Cancer Pooja Kumari, Kanoujiya Supriya Nandlal, Virendra Singh
5	2:40 pm - 2:50 pm	OPS-05	Oral microbial components direct the gut dysbiosis in HIV-infected subjects: Key to normalize gut microbiota through the manipulation of oral bacteria Anjali Verma, Anupam Bhattacharya, Avaneesh Shukla, Varun Suroliya, Urvinder Kaur Sardarni, Ankita Rai, Nikita, Rupali Malik, Sameer Gulati, Ashwini Kumar Ray, Ravi Tandon
6	2:50 pm - 3:00 pm	OPS-06	Elucidating the role of platelets as modulators of <i>Vibrio vulnificus</i> induced septicemia Anna Suvina Watson, Murali Badanthatka, Praveen Rai, Sudarshan Kini, Ballamoole Krishna Kumar
7	3:00 pm - 3:10 pm	OPS-07	MALAT1 facilitates HIV-1 latency reversal in latently infected monocytes by inducing the expression of pro-inflammatory cytokines Ankita Rai, Aradhana Singh, Ritu Gaur, Anjali Verma, Sameer Gulati, Rupali Malik, Himanshu D, Ravi Tandon
8	3:10 pm - 3:20 pm	OPS-08	Knowledge of Cancer Risk Factors, Screening, and Treatment Modalities: A Cross-Sectional Study among Malaysian Adults Tan Jue Kie, Prerna Rajan, Hari Hara Vicknesh a/l Parthiban, Willson a/l Kumaran, Aung Win Thein, Mila Nu Nu Htay, Soe Moe
9	3:20 pm - 3:30 pm	OPS-09	Development of an isothermal nucleic acid amplification assay for the rapid detection of Hepatitis B Virus Sharan Prerana, Shruthi Padavu, Krishna Kumar Ballamoole, Anoop Kumar, Praveen Rai
10	3:30 pm - 3:40 pm	OPS-10	Isolation and characterization of indigenous soil bacteria for optimized Poly- β -Hydroxybutyrate (PHB) production and development of bioplastic Amit Kumar, Ekta Arya, Duni Chand
11	3:40 pm - 3:50 pm	OPS-11	Investigation of the Antibacterial and Antioxidant Potential of <i>Citrus limon</i> Extract Tejas Kanchumarthy, Nikheta Sevaraj, Sreelakshmi Chemmala, Remya Vallathol
12	3:50 pm - 4:00 pm	OPS-12	Phytochemical Analysis and Screening of <i>Earleaf acacia</i> Mrutyunjay Sharma, Mariah Ibrahim, Diya Malhotra, Mudabbir Ahmed, Nishaal Revendran, Remya Vallathol

13	4:00 pm - 4:10 pm	OPS-13	Preliminary in vitro Evaluation of Phytochemical Composition, Antimicrobial, Antibiofilm, and Antioxidant Properties of <i>Terminalia catappa</i> Leaves <i>Naveen Nischal Nagaraju, Ehlena Lau Chien Ai, Felix Tan Yee Shuen, Palak Kirti Jain, Arunkumar Seetharaman, Amily Yun Shey Mie, Abisha Kunnathully Vijayakumar, Akshat Sethia, Mirza Ahsen Beg, Muneeb Pasha, Rose Joseph, Remya Vallathol</i>
14	4:10 pm - 4:20 pm	OPS-14	Association between Brugada Syndrome and Sudden Unexplained Death Syndrome (SUDS) in Adults: Systematic Review <i>Tanisha Vinod, Emma.M. Sam</i>
15	4:20 pm - 4:30 pm	OPS-15	New Distributional Evidence of <i>Laggetera crispata</i> from South-Central Rajasthan, India <i>Jayant Sharma, Shahdab Hussain</i>

TECHNICAL SESSION - 6 (PARALLEL 3)

Oral Presentation 2 (Offline & Online): Student Category

Time : 2:00pm – 4:30 pm

Session Chair: Prof. Maya Roche, MUCM

Session Chair: Assoc. Prof. Dr. Ganesh Kamath, MUCM

Venue : ACB–2–C5

S. No	Time slot	Abstract Number	Title & Speakers
1	2:00 pm - 2:10 pm	OPS-16	Production of Biosurfactant and Degradation of crude oil through bacterial strain from contaminated sites <i>Sona. S, Dharanisha K.V and Ayyasamy P.M</i>
2	2:10 pm - 2:20 pm	OPS-17	Antioxidative and cytotoxic properties of <i>Ophiorrhiza mungos</i> chemotypes and biocidal properties of its Silver Nanoparticles (AgNP) <i>Mimosa Ghorai, Sindhumathi A, Arvind Prasanth D</i>
3	2:20 pm - 2:30 pm	OPS-18	A review of medicinal properties of herbal plants <i>Ishita Sinha, Kalpana Shree, Harshaa Rajabalakumar, Antony V Samrot</i>
4	2:30 pm - 2:40 pm	OPS-19	Social Media as a Source for Self-Medication: The Influence of Educational Factors <i>Sabrina A/P George, Lakshme Shree A/P Vijayan, Shrranesh Raja, Yeoh Yong Khang, Shakhthidaran Nair, Theingi Maung Maung, Usha Kumari</i>
5	2:40 pm - 2:50 pm	OPS-20	Development of a Novel Nested PCR Assay Based on Internal Transcribed Spacer for <i>Histoplasma capsulatum</i> in Indonesia <i>Jolene Eleora Mok, Sem Samuel Surja Ferbian Milas Siswanto, Daniel Edbert</i>
6	2:50 pm - 3:00 pm	OPS-21	Development of Nested PCR as a Molecular Diagnosis Technique for Detection of <i>Histoplasma capsulatum</i> in Indonesia <i>Anathapindika Putra, Sem Samuel Surja, Ferbian Milas Siswanto, Daniel Edbert, Freggy Spicano Joprang, Muhammad Fadli Muhyidin, Jolene Eleora Mok, Stefan Kinai Solagratia Budiman, Ricky Kurniawan</i>
7	3:00 pm - 3:10 pm	OPS-22	From Kitchen to Healthcare: Antioxidant Efficacy and Mineral Composition of <i>Pandanus amaryllifolius</i> <i>Lakshme Shree A/P Vijayan, Dr Anupam Biswas, Dr Balasundaram Muthu Venkatachalam</i>
8	3:10 pm - 3:20 pm	OPS-23	Plant derived pigment and their application in textile industry <i>Ezhilarassi.B.R, Malarvizhi.A, Rajalakshmi D, R.Sanjay Preeth, Harshaa Rajabalakumar, Antony V Samrot*</i>

9	3:20 pm - 3:30 pm	OPS-24	Extraction of chitosan, cellulose and hydroxyapatite from wastes and their applications <i>Murugeswari M, G Shiyamala, Kalpana shree S, Rajalakshmi D, Harshaa Rajabalakumar, Antony V Samrot</i>
10	3:30 pm - 3:40 pm	OPS-25	Green Synthesized Superparamagnetic iron oxide nanoparticles for Drug Delivery <i>Dharsani S, Rajalakshmi D, Malarvizhi A, Murugeswari M, Antony V Samrot</i>
11	3:40 pm - 3:50 pm	OPS-26	Revealing the usage and efficiency of cellulose and protein from duckweed <i>Harshavarthini, Rajalakshmi D, Divya V V, Dharsani S, Antony V Samrot</i>
12	3:50 pm - 4:00 pm	OPS-27	Biopigments for textile industry and nanotechnology <i>Swathi N, Yuvarani M, Rajalakshmi D, Harshaa Rajabalakumar, Antony V Samrot</i>
13	4:00 pm - 4:10 pm	OPS-28	Exploitation of duckweed for various biotechnological applications <i>Girija A, Dr.M.Abdul Kapur, Rajalakshmi D, Dharsani S, Antony V Samrot</i>
14	4:10 pm - 4:20 pm	OPS-29	Exploiting the potential of propolis: a multifaceted approach to applications and sustainable practices <i>Anchu Rachel Thomas, Hemapriya N, Abirami K, Rajalakshmi D, Antony V Samrot</i>

TECHNICAL SESSION - 7 (PARALLEL 4)

Oral Presentation 3 (Online): Student Category

Time : 2:00pm – 4:30pm

Session Chair: Assoc. Prof. Dr. Rekha Prabhu, MUCM

Session Chair: Dr Thin Mon Kyaw, MUCM

Venue : ACB-1-C6

S. No	Time slot	Abstract Number	Title & Speakers
1	2:00 pm - 2:10 pm	OPS-30	Utilization of nanosorbents for the removal of heavy metals – Insights from a Fish Toxicity Study <i>Kalpana Shree S, Umashankar V, Harshaa Rajabalakumar, Antony V Samrot</i>
2	2:10 pm - 2:20 pm	OPS-31	Phytoremediation of heavy metal contaminated soil <i>P. Prakash, AP.Pranitha, W. Winnie Prahelika, L. Suchithra, D.Rajalakshmi, Antony V Samrot, Akshaya G</i>
3	2:20 pm - 2:30 pm	OPS-32	Machine Learning-Driven QSAR and Docking Pipeline for Identification of Amyloid Beta-A4 Inhibitors in Alzheimer's Disease <i>Sohith Reddy, Sugapriya Dhanasekaran</i>
4	2:30 pm - 2:40 pm	OPS-33	A machine learning-based strategy to accelerate identification of antibiotic-resistant bacteria <i>K. T. Shreya Parthasarathi, Kiran Bharat Gaikwad, Shruthy Rajesh, Shweta Rana, Akhilesh Pandey, Harpreet Singh, Jyoti Sharma</i>
5	2:40 pm - 2:50 pm	OPS-34	Culture-free whole genome sequencing of <i>Mycobacterium tuberculosis</i> using ligand-mediated bead enrichment method <i>R.Verma, Shruthi Vasanthaiah, Kumar.A, Bandari.A.K, George, Rastogi.M, Manjunath.G.K, Sharma J, Kumar. A, Subramani.J, Kiran Chawla, Akhilesh Pandey</i>
6	2:50 pm - 3:00 pm	OPS-35	Pediatric Cancer Mutational Hotspots Bridges TP53 Pathophysiology, Signaling Networks, and Metabolic Triggers <i>Gowrang Kasaba Manjunath, Krishna Veni Ankam, Abhishek Kumar</i>
7	3:00 pm - 3:10 pm	OPS-36	Tiered Mutational Landscapes in Thyroid Cancer: BRAF-Driven Oncogenesis, TERT Progression, and DNA Repair Vulnerabilities <i>Disha Nashier, Abhishek Kumar</i>

8	3:10 pm - 3:20 pm	OPS-37	From Lampreys to Humans: 500 Million Years of Serpin Evolution Linking Angiotensin and Coagulation Pathways <i>Mangesh Rajrugu, Abhishek Kumar</i>
9	3:20 pm - 3:30 pm	OPS-38	Bridging Rare Genetic Disorders and Cancer Genomics: Next-Generation Sequencing as a Catalyst for Precision Medicine and Ethical Innovation <i>Abhijit Beur, Gowrang K. Mangunath, Sweta Mahalingam, Tikam Chand Dakal, Abhishek Kumar</i>
10	3:30 pm - 3:40 pm	OPS-39	Decoding the Genomic Landscape of Ovarian Cancer: Mutation Signatures, Therapeutic Insights, and the Road to Precision Medicine <i>Saanvi Sivan, Gowrang Kasaba Manjunath, Abhishek Kumar</i>
11	3:40 pm - 3:50 pm	OPS-40	From Genomic Insights to Clinical Translation: Multi-Omics Approaches in Congenital Heart Disease Research and Care <i>Shweta Mahalingam, Gowrang Kasaba Manjunath, Anusha Uttarilli, Jyoti Sharma, Akhilesh Pandey, Abhishek Kumar</i>
12	3:50 pm - 4:00 pm	OPS-41	Application of Matrix-Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry (MALDI-TOF MS) for Microbial Identification in a Pharmaceutical Testing Laboratory <i>Harsha Prashant Kavale, Vijay Jagdish Upadhye</i>
13	4:00 pm - 4:10 pm	OPS-42	Synthesis, Characterization and Application of Bacterial Cellulose: Efficient Microbial Product from <i>Bacillus subtilis</i> <i>Bhuvaneshwari Parthasarathy, Ayyasamy Puthukadu Munusamy</i>

MAY 7th, 2025 (DAY 2)

TECHNICAL SESSION - 9 (PARALLEL 1)

Invited Talks (Offline)

Time : 11:20am – 1:00pm

Session Chair: Dr. Mukesh Meghvansi, India

Session Chair: Prof. Nirmal Kumar Sinha, MUCM

Session Chair: Dr. Kaustuvmani Patowary, India

Moderator : Dr. Seetha Munisamy, MUCM

Venue : Dato' Pathmanaban Hall

S. No	Time slot	Abstract Number	Title & Speakers
1	11:20 am - 11:30 am	IT-11	Biophysical Interactions between green synthesized Co (Cobalt)-Ni (Nickel) bimetallic Nanoparticles with some Biomolecules Ramchander Merugu, Rani Padmini Velamakanni
2	11:30 am - 11:40 am	IT-12	Phytochemical and Antibacterial Properties of Five Anti Cancerous Plants from Goa - India Maria A. A. R. Fonseca, Jivajirao Desai, Kinoshia Gonsalves, Mustafa Latifnavar, Shantanu Kumbhar, Tanvi Bala Rao
3	11:40 am - 11:50 am	IT-13	Integrating Bioprospecting and Sustainability: A Pathway to Address Global Challenges Elangbam Athoiba Singh
4	11:50 am - 12:00 pm	IT-14	High-Altitude Induced Oxidative Stress and Memory Impairment in Rat Model Narendra Kumar Sharma
5	12:00 pm - 12:10 pm	IT-15	Regulation of Blood Glucose by Post-biotics derived from kernels of <i>Syzygium cuminii</i> , and <i>Mangifera indica</i> A. Murugan, J. Neginah Vijayasingh
6	12:10 pm - 12:20 pm	IT-16	Synergizing Green Chemistry and Advanced Oxidation Processes: A Pathway to Achieve Sustainable Development Goals Preeti Mehta, Rajeev Mehta
7	12:20 pm - 12:30 pm	IT-17	Green-Synthesized Silver Nanoparticles for Dual Remediation of TDS and Bacterial Contamination in Mewar Groundwater Rajeev Mehta, Shweta Dadheech, Pankaj Sen
8	12:30 pm - 12:40 pm	IT-18	Optimal control and cost-effectiveness analysis of a fractional-order disease model Pooja Jangir, Garima Agarwal, Tikam Chand Dakal
9	12:40 pm - 12:50 pm	IT-19	The Effect of Different Light Qualities on Spore Germination of Pteridophytes Flora of Kumbhalgarh Wildlife Sanctuary Shahdab Hussain, Sudha Summarwar
10	12:50 pm - 1:00 pm	IT-20	Gold Nanoprobe Based Rapid Low Cost Diagnostics for Detecting Sepsis Severity Based on Haptoglobin Glycosylation Sandepta Burgula, MVS Sandhya, Ramesh Kande

TECHNICAL SESSION - 10 (PARALLEL 2)

Oral Presentation 4 (Online & Offline): Faculty Category

Time : 10:50am – 1:00pm**Session Chair: Prof. Neena Chuni, MUCM****Session Chair: Dr Anita Rana, India****Session Chair: Dr. Garima Agarwal, India****Venue : ACB–2–C3**

S. No	Time slot	Abstract Number	Title & Speakers
1	10:50 am - 11:00 am	OFP-01	Tuning the physical properties of Sm doped Cu-Ni spinel ferrite nanoparticles for hyperthermia and photocatalytic applications <i>Mritunjoy Prasad Ghosh, Devasish Chowdhury</i>
2	11:00 am - 11:10 am	OFP-02	Boosting Fertility: The Enhanced Benefits of Multiple Micronutrients over Folic Acid Supplements among Bangladeshi Women <i>Faryal Mustary, Lubna Shirin, Nusrat Mahjabeen, Theingi Maung Maung, Mohammed Shahjahan Kabir</i>
3	11:10 am - 11:20 am	OFP-03	In Vitro and In Silico Study of Kaempferol's Effect on LPS-Stimulated Microglia and Hippo/YAP Pathway Proteins <i>Sam Annie Jeyachristy, Ravichandran Veerasamy, Aina Najwa binti Mohamad Aziz, Jannathul Firdous, Rajeswari Ravindran</i>
4	11:20 am - 11:30 am	OFP-04	Invitro studies on Antioxidant, Antidiabetic and Antibacterial activity of Kodaikanal Hill Garlic <i>M.Razia, J.Hemadevi</i>
5	11:30 am - 11:40 am	OFP-05	Maternal Risk Factors for Gestational Diabetes Mellitus: Results from a Tertiary Care Cohort from Kandy District, Sri Lanka <i>Ambagaspitiya AWDT, Tennakoon S, Ratnayake RMCJ, Alles CNRA, Ranasinghe JGS</i>
6	11:40 am - 11:50 am	OFP-06	Development of a questionnaire designed to assess the prevalence of upper gastrointestinal tract symptoms in patients with chronic kidney disease <i>Chandimala H.D.R., Nanayakkara N, Chandrasekara A, Piyarathna C, Abeyundara HTK</i>
7	11:50 am - 12:00 pm	OFP-07	Serum Magnesium Levels in Individuals with CKDu Compared to Endemic and Non-Endemic Controls <i>Nayanamali M.A.A., Ranasinghe J.G.S., Jayawardene R.D.P., Hettiarachchi T.W., Erandika H.G.N., Chandimala H.D.R, Nanayakkara</i>
8	12:00 pm - 12:10 pm	OFP-08	Molecular docking of phytochemicals of <i>Terminalia chebula</i> and <i>Terminalia bellerica</i> fruit extracts against AmpC, CTX-M-15 and NDM enzymes of Gram Negative bacteria <i>Bharani Thirunavukkarasu, Valli .S, Gokul Shankar Sabesan</i>
9	12:10 pm - 12:20 pm	OFP-09	Enhancing Candida Infection Diagnostics: A PCR-RFLP Approach to Overcoming Traditional Challenges in Pakistan <i>Humaira Farooq, Summiya Nizamuddin, Romina Qazi, Aun Raza, Nasrullah Malik, Faisal Sultan</i>
10	12:20 pm - 12:30 pm	OFP-10	Enhanced Mineral Solubilization by A Multi-Functional Bacterial Isolate <i>Burkholderia Cepacia</i> MS011 <i>Varsha Pandian, Alagappan Gandhi, Athiappan Murugan</i>
11	12:30 pm - 12:40 pm	OFP-11	Synthesis of Ruthenium (II) Cyclometallated Complexes with CNS Pincer Schiff Base Ligands and Their Catalytic Potential in One-pot Synthesis of Quinolines <i>P. Viswanathamurthi, R. Krishnapriya</i>

12	12:40 pm - 12:50 pm	OFP-12	Novel swarm-optimized principal component selection using random forest for cancer gene expression classification <i>H. Hannah Inbarani, S. Nivetha, Anandakumar K</i>
13	12:50 pm - 1:00 pm	OFP-13	Visible light heterostructure of Titanium oxide intercalated with BiVO ₄ revealed an enhancement of photocatalytic performance <i>P. Maadeswaran, A. Gomathi, K.A. Ramesh kumar</i>
14	1:00 pm - 1:10 pm	OFP-14	Investigating the Synergistic Effects of 5-Fluorouracil And 4'-Bromoflavone in Colorectal Cancer Cell <i>Puvanan Karunanithi, Ajantha Sinniah, Mohammed Abdullah Alshawsh</i>

TECHNICAL SESSION - 11 (PARALLEL 3)

Poster Presentation 1 (Online & Offline): Student Category

Time : 10:50am – 1:00pm

Session Chair: Prof. Shirani Ranasinghe, MUCM

Session Chair : Dr. Narendra Kumar Sharma, India

Session Chair : Dr. Shahdab Hussain, India

Venue : ACB-1-C1

S. No	Time slot	Abstract Number	Title & Speakers
1	10:50 am - 11:00 am	PPS-01	Targeting LRG1: A Critical Regulator in Rheumatoid Arthritis Pathogenesis <i>Talib Hussain, Mohd saquib, Swati malik, Prachi Agnihotri, Bhavya Choudhary, Lovely Joshi, Uma Kumar, Sagarika Biswas</i>
2	11:00 am - 11:10 am	PPS-02	In silico identification of desoxyrhaponticin as a Thioredoxin-1 inhibitor for potential multiple myeloma therapy <i>Katyayani Agarwal, Navneeta Bharadvaja</i>
3	11:10 am - 11:20 am	PPS-03	In-Silico Identification for a Potent BCL-xL Inhibitor for Targeted Leukemia Therapy <i>Bhavya Choudhary, Asmita Das</i>
4	11:20 am - 11:30 am	PPS-04	Stingless Bee Propolis and Its Various Biotechnological Applications <i>Anchu Rachel Thomas, Rajalakshmi D, Kalpana shree S, Ramesh Kumar V, Antony V Samrot</i>
5	11:30 am - 11:40 am	PPS-05	Waste to Watts: Single Chambered Microbial Fuel Cell with Air cathode for generating Electricity using Wastewater <i>Madhumitha B.S., Hemlata S, Antony Samrot V., Naveen Nischal Nagaraju</i>
6	11:40 am - 11:50 am	PPS-06	Avastin: Biospecific Antibody, its Pharmacokinetics, Pharmacodynamics and Role in Precision Medicine <i>Arth Rahul Paliwal, Tikam Chand Dakal</i>
7	11:50 am - 12:00 pm	PPS-07	SARS CoV-2 Spike Protein: Discovery of Antigenic Determinants and Plausible Pathophysiological Aspects <i>Bhumika Jangir, Kashish Khan, Komal Rajput, Tikam Chand Dakal</i>
8	12:10 pm - 12:20 pm	PPS-08	Harnessing <i>Zygosaccharomyces Rouxii</i> Complex Yeasts: Advances and Applications in Food and Beverage Fermentation <i>Manan Kanwar Singh, Maheshwar Singh Chouhan, Tikam Chand Dakal, Paolo Giudici</i>
9	12:20 pm - 12:30 pm	PPS-09	A Mini Review on Biofertilizers and Biopesticides in Agricultural Practices: Challenges and Sustainable Development Goals <i>Shrusti Dangi, Harshi Patel, Dushyant Sukhwal, Sarthak Bhandari, Tikam Chand Dakal</i>

10	12:30 pm - 12:40 pm	PPS-10	Mutations in Spike Protein of SARS CoV-2: Virulence, Pathogenesis and Possible Treatment Strategy <i>Siddhi Jain, Arisha Imam, Tikam Chand Dakal</i>
11	12:40 pm - 12:50 pm	PPS-11	Diverse Applications and Future Prospectives of CRISPR-based Genome Editing in Biomedical and Clinical Sciences: A Mini Review <i>Kratika Jain, Ravi Bhushan, Akanksha Singh, Gauranshi Pant, Prutha Tiwari, Saloni Gakhar, Shrijee Lakshkar, Narendra Kumar Sharma, B. R. Gadi, Tikam Chand Dakal</i>
12	12:50 pm - 1:00 pm	PPS-12	The Therapeutic Potential of Senolytics in Alzheimer's Disease <i>Nur Irlia Sofea Mohammad Zamani, Ikuo Tooyama, Daijiro Yanagisawa, Muhammad Zulfiqah Sadikan, Hamizah Shahirah Hamezah, Ahmed Mediani, Tatiyana Mandal, Muhammad Khusni Ahmat Amin, Faidruz Azura Jam</i>
13	1:00 pm - 1:10 pm	PPS-13	Phytochemical Screening and Bioactivity Evaluation of <i>Cornus spp</i> : Implications for Therapeutic Applications <i>Gan Yan Yee, EM Rihinish Chellah, Joshua George Dayanand, Ahmed Moazzam Dadan, Tayal Karthikeyan Radha, Mithul Santhosh Kumar, Mohammad Sadik Ishkey, Viraj Vij, Remya Vallathol</i>

TECHNICAL SESSION - 12 (PARALLEL 4)

Poster Presentation 2 (Online & Offline): Faculty Category

Time : 10:50am – 1:00pm

Session Chair : Prof. Dr. Sandepta Burgula, India

Session Chair : Prof. Dr. M Ram Chander, India

Session Chair : Dr. Haryati Binti Ahmad Hairi, MUCM

Venue : ACB-1-C6

S. No	Time slot	Abstract Number	Title & Speakers
1	10:50 am - 11:00 am	PPF-01	Sexual Differentiation of the Nervous System <i>Nishigandha Nikas</i>
2	11:00 am - 11:10 am	PPF-02	Phytochemical Profiling and In Silico Docking Analysis of <i>Solanum nigrum</i> Ethanolic Extract Against <i>Mycobacterium tuberculosis</i> ATP-Dependent MurE Ligase (2XJA) <i>Abarna Ramananthatheerthana, Ravindran Jaganathan, Anita Devi Krishnan Thantry, Alagumanikumaran Nagarajan, Abirami Sa</i>
3	11:10 am - 11:20 am	PPF-03	The Role of Endothelial Mediators in The Microcirculation of Diabetic Rats <i>Seetha Munisamy, Siti Safiah Amokhtar, Aida Hanum Ghulam Rasool</i>
4	11:20 am - 11:30 am	PPF-04	Nano-Armoured Metallodrugs: Unleashing PLGA-Encapsulated Tribenzyltin Carboxylates Against Triple-negative Breast Cancer <i>Theebaa Anasamy, Chin Fei Chee, Lik Voon Kiew, Lip Yong Chung</i>



**2ND INTERNATIONAL CONFERENCE ON RECENT INNOVATIONS IN
BIOLOGICAL, CHEMICAL & CLINICAL SCIENCES
(HYBRID - MODE)**

CLINICAL UPDATE

6TH MAY 2025

Dr. PALLAV SENGUPTA, PhD

Assistant Professor, Physiology,
College of Medicine,
Gulf Medical University,
Ajman, United Arab Emirates.

MiOXSYS-Based Seminal Oxidation-Reduction
Potential (ORP) : A 'Holistic' Diagnosis of Male
Oxidative Stress Infertility (MOSI)

11.30 – 12.00

Dr. SULAGNA DUTTA, PhD

Assistant Professor (Physiology),
College of Medicine, Gulf Medical University,
Ajman, United Arab Emirates.
Scientist, GAF, USA.

Integrated Framework for Polycystic Ovary
Syndrome (PCOS) Diagnosis: Anthropometric,
Metabolic, and Hormonal Predictors

12.00 - 12.30

LUNCH BREAK
Time : 12.30-14.00

Prof. Dr. ARUN RAMACHANDRAN

Consultant Neonatologist,
Swansea Bay University Health Board.
Admissions Director,
Swansea University Medical School,
Swansea, Wales, UK.

Neuro protection in babies with birth asphyxia

14.00 – 14.30

Prof. Dr. SRIJAYA S SREESH

Prof, Dept of Gastroenterology,
Hepatology and Liver Transplantation,
Government Medical College,
Thiruvananthapuram, Kerala, India.

"When and how to treat Chronic HBV infection"

14.30 - 15.00

Prof. Dr. KRISHNAKUMAR K

MBBS, MS, MCh
Professor and Head,
Department of Neurosurgery,
Sree Chitra Tirunal Institute for Medical
Sciences and Technology,
Trivandrum, Kerala, India.

"Basal Ganglia and their modulation for
treatment of movement disorders "

15.00 - 15.30

TEA BREAK
Time : 15.30-15.45

Dr. SANKARA MAHESH

MD, FRCS (G)
Associate Director,
Dept of Ophthalmology
Westchester Medical Center.
Program Director,
Ophthalmology Residency,
New York Medical College, New York, USA.

"Ophthalmology treatment in coming
years - current trends and future beholds"

16.15 - 16.45

Dr. SEN VARGHESE KALLUMPURAM

Consultant Psychiatrist,
Luton Memory Services and Training.
Programme Director,
Luton & Bedfordshire,
East London NHS Foundation Trust, UK.

"The Human Mind: Unlocking the Mysteries of
Mental Health"

15.45 - 16.15

Dr. MAHESH G

MBBS MS DO DNB FRCS Edin
Retina fellow,
Post graduate diploma in medical law
and ethics PGDMLE.
Head of vitreoretinal services,
Giridhar Eye Institute, Kochi, Kerala, India.

"Nuances of fundus examination in diabetic
Retinopathy"

16.45 - 17.15

END OF SESSIONS