

**9th International Symposium on
“CURRENT TRENDS IN DRUG DISCOVERY RESEARCH”
(CTDDR 2025)**

(19th-22nd February, 2025)

CSIR-Central Drug Research Institute, Lucknow, India

SCIENTIFIC PROGRAMME

| 19th February, 2025 | |
|--|---|
| 14:00 -16:45 | REGISTRATION <i>Venue: CDRI Auditorium Complex</i> |
| Inaugural Session <i>Venue: Auditorium</i> | |
| Session Coordinator: Dr. Aamir Nazir | |
| 16:45-16:55 | <i>Welcome Address</i> Dr. Radha Rangarajan , Director, CSIR-CDRI |
| 16:55-17:10 | <i>Address by the Guest of Honor</i> Prof. Balram Bhargava , Dean and Senior Consultant, Holy Family Hospital, New Delhi & Former Director General, ICMR |
| 17:10-17:25 | <i>Address by the Chief Guest</i> Dr. N. Kalaiselvi , Director General, CSIR & Secretary DSIR |
| 17:25-18:25 | <i>Inaugural lecture</i> Prof. Christopher Robert McCurdy , Professor and The Frank A. Duckworth Eminent Scholar Chair, University of Florida, USA <i>“Seeing Pain: from the lab to the clinic, a medicinal chemist’s journey”</i> |
| 18:25-18:30 | <i>Vote of thanks</i> Dr. Kumaravelu J , Organizing Secretary, CTDDR 2025 |
| 18:30-18.40 | SHORT TEA/COFFEE BREAK |
| Session I: New Strategies in Synthetic and Medicinal Chemistry Chairpersons: Prof. Inder Pal Singh and Dr. Sanjay Batra <i>Venue: Auditorium</i> | |
| Session Coordinator: Dr. Namrata Rastogi | |
| IL-1(18:40-19:10) (online) | Prof. Courtney C. Aldrich , University of Minnesota, USA <i>“Targeting cofactor biosynthesis”</i> |
| IL-2 (19:10-19:40) | Dr. Arindam Talukdar , CSIR-Indian Institute of Chemical Biology (IICB), Kolkata <i>“Eliciting agonism-antagonism in endosomal toll-like receptor modulators via convoluted interplay of chemical subunits”</i> |
| 19:40 onwards | CTDDR-2025 NETWORKING DINNER (CDRI Lawn) |

20th February, 2025

Session II: Concept to Point of Care: Drugs Pending Submission/Approval or Recently Approved

Chairpersons: Dr. Radha Rangarajan and Dr. Daniel Goldberg

Venue: Auditorium

Session Coordinator: Dr. Dibyendu Banerjee

IL-3 (9:15-9:45)

Dr. Sachin Bhagwat, Wockhardt R & D Centre, Aurangabad
“Discovery of a novel mechanism of action based β -lactam + β -lactam enhancer combination, WCK 5222(cefepime+zidebactam) with comprehensive coverage of pan-drug resistant Gram negatives”

IL-4 (9:45-10:15)

Prof. Rahul Purwar, Indian Institute of Technology, Bombay
“First “Make in India” CAR-T cell therapy: from RnD to clinic to market”

IL-5 (10:15-10:45)

Dr. Tarini Shankar Ghosh, Indraprastha Institute of Information Technology (IIIT), Delhi
“Data-driven HACK-ing of the gut microbiome”

10.45-11.10

TEA/COFFEE BREAK

Session III: Advances and Challenges in Drug Discovery for Parasitic Diseases

Chairpersons: Prof. Ian H. Gilbert and Dr. Saman Habib

Venue: Auditorium

Session Coordinator: Dr. Niti Kumar

Plenary Lecture-1
(11:10-11:50)

Prof. Dominique Soldati-Favre, University of Geneva, Switzerland
“Toxoplasma gondii Mitoribosome from highly fragmented rRNAs to a functional Machine”

IL-6 (11:50-12:20)

Prof. Christian Doerig, The Royal Melbourne Institute of Technology University (RMIT), Australia
“Host-directed therapy for infectious diseases: Phosphorsignalling as a target”

IL-7 (12:20-12:50)

Dr. Mrigank Srivastava, CSIR-CDRI, Lucknow
“Eosinophil: Sentinels or Saboteurs during filarial manifestation of tropical pulmonary eosinophilia”

IL-8 (12:50-13:20)

Prof. Shyam Sundar, Banaras Hindu University, Varanasi
“Elimination of visceral leishmaniasis from India – The story”

13.20-15.00

LUNCH + POSTER SESSION

Session IV (Parallel): New Approaches in Anti-Viral Drug Discovery and Development

Chairpersons: Prof. Dominique Soldati-Favre and Dr. Ravishankar Ramachandran

Venue: Auditorium

| | |
|---|---|
| Session Coordinator: Dr. Rahul Shukla | |
| IL-9 (15:00-15:30) | Dr. Peter Sjö , Drugs for Neglected Diseases Initiative (DNDi), Switzerland <i>"The open science discovery of DNDi-6510: An orally bioavailable SARS-CoV2 antiviral"</i> |
| IL-10 (15:30-16:00) | Prof. Sudhanshu Vрати , Regional Centre for Biotechnology (RCB), Faridabad <i>"Development of novel antivirals"</i> |
| IL-11 (16:00-16:30) | Prof. Gaurav Batra , Translational Health Science and Technology Institute (THSTI), Faridabad <i>"Diagnostics for arboviral infections: Informing therapeutic"</i> |
| Session V (Parallel): Natural Product Chemistry for Novel Drugs Chairpersons: Dr. K. V. Radhakrishnan and Dr. K. V. Sashidhara Venue: Hall 2 | |
| Session Coordinator: Dr. Chandra Bhushan Tripathi | |
| IL-12 (15:00-15:30) | Prof. Inder Pal Singh , National Institute of Pharmaceutical Education and Research (NIPER), Mohali <i>"Development of wound healing and anti-inflammatory formulations from Hippophae rhamnoides L."</i> |
| IL-13 (15:30-16:00) | Dr. Chandra Kant Katiyar , Emami Ltd, Gurgaon <i>"New drug discovery from medicinal plants: Issues, challenges and way forward"</i> |
| IL-14 (16:00-16:30) | Dr. Ashutosh Pandey , National Institute of Plant Genome Research (NIPGR), New Delhi <i>"Engineering crops for value addition of health-beneficial natural products: From fundamentals to applications"</i> |
| 16:30-17:00 | TEA/COFFEE BREAK |
| Session VI: Flash Talk Series 1 Chairpersons: Dr. Prabhat R. Mishra and Dr. Prem N. Yadav Venue: Auditorium | |
| Session Coordinator: Dr. Kinshuk Raj Srivastava | |
| 17:00-18:00 | 12 x 5 min talks by selected students/young faculty |
| CULTURAL PROGRAMME | |
| 19:00-20:30 | Concert Performers: Pandit Ronu Majumdar (Flute) and Pandit Rupak Bhattacharjee (Tabla) |
| CONFERENCE DINNER (CSIR-CDRI Lawn) | |
| 21st February, 2025 | |
| Session VII: Emerging Therapeutics for CNS and CVS Disorders Chairpersons: Prof. Vijay Tiwari and Dr. Manoj Kumar Barthwal | |

| | |
|--|--|
| Venue: Auditorium | |
| Session Coordinator: Dr. Baisakhi Moharana | |
| IL-15 (9:15-9:45) | Prof. Mark A. Hollywood , Dundalk Institute of Technology, Ireland <i>"Modulation of BK channel function by the LINGO family of regulatory subunits"</i> |
| IL-16 (9:45-10:15) | Prof. Amar Deep Sharma , Hannover Medical School, Germany <i>"RNA therapeutics for liver injuries"</i> |
| IL-17 (10:15-10:45) | Dr. Arnab Mukhopadhyay , National Institute of Immunology (NII), New Delhi <i>"A neuron-gut signaling axis that regulates longevity"</i> |
| 10:45-11:10 | TEA/COFFEE BREAK |
| Session VIII: Novel Targets in Bone and Reproductive Health | |
| Chairpersons: Prof. Christian Doerig and Dr. Naibedyia Chattopadhyay | |
| Venue: Auditorium | |
| Session Coordinator: Dr. Arun K. Trivedi | |
| Plenary Lecture-2 (11:10-11:50) | Prof. Martin M. Matzuk , Baylor College of Medicine, USA <i>"DNA-encoded chemistry technology for drug discovery"</i> |
| IL-18 (11:50-12:20) | Prof. Arthur D. Conigrave , University of Sydney, Australia <i>"Physiological scope of L-amino acid-dependent signalling from the calcium-sensing receptor"</i> |
| IL-19 (12:20-12:50) | Prof. Sudhaker D. Rao , Henry Ford Hospital, Detroit, USA <i>"Dilemma in osteoporosis management: Darn if you do and darn if you don't, the unintended consequences and a way forward"</i> |
| IL-20 (12:50-13:20) | Dr. Deepa Ghosh , Institute of Nano Science and Technology (INST), Mohali <i>"Innovative strategies for combating progressive cartilage matrix degeneration"</i> |
| 13.20-15.00 | LUNCH + POSTER SESSION |
| Session IX (Parallel): Anti-Cancer Therapeutics and Prevention of Relapse | |
| Chairpersons: Dr. Ram A. Vishwakarma and Dr. Dipak Datta | |
| Venue: Auditorium | |
| Session Coordinator: Dr. Dipankar Koley | |
| IL-21 (15:00-15:30) <i>(online)</i> | Prof. Anjan Thakurta , Oxford Translational Myeloma Centre (OTMC), UK <i>"Therapeutic resistance: Learning from cereblon targeting agents in myeloma"</i> |
| IL-22 (15:30-16:00) | Prof. Vijay Tiwari , Institute of Molecular Medicine, Denmark |

| | |
|---|---|
| | <i>“Deciphering the gene regulatory code of metastasis”</i> |
| IL-23 (16:00-16:30) | Dr. Murali Ramachandra , Aurigene Oncology Limited, Bengaluru <i>“Discovery and development of a Pan-KRAS degrader”</i> |
| IL-24 (16:30-17:00) | Dr. Neeraj Jain , CSIR-CDRI, Lucknow <i>“Chemotherapy resistance and immune escape signatures in B-cell Lymphoma”</i> |
| Session X (Parallel): CDRI Alumni Talks for Next Generation Chairpersons: Dr. S. K. Rath and Dr. Anil N. Gaikwad Venue: Hall 2 | |
| Session Coordinator: Dr. Ravindra Kumar | |
| IL-25 (15:00-15:30) | Dr. Swapnil Sinha , IIT Guwahati BioNEST, Guwahati <i>“Innovation in action: Turning scientific ideas Into commercial impact”</i> |
| IL-26 (15:30-16:00) | Dr. Rakeshwar Bandichhor , Dr. Reddy's Laboratories, Hyderabad <i>“Synthetic strategies for Plerixafor: A hematopoietic stem cell mobilizer”</i> |
| IL-27 (16:00-16:30) | Dr. Dimpny Kalia , Indian Institute of Science Education and Research (IISER), Bhopal, India <i>“Protein bioconjugation and the chemical biology of bacterial c-di-GMP Signaling”</i> |
| IL-28 (16:30-17:00) | Dr. Arunendra Pathak , Taros Chemical GmbH & Co KG, Germany <i>“Nitrosamine impurities in active pharmaceutical ingredients (APIs) and their regulatory landscape”</i> |
| 17:00-17:30 | TEA/COFFEE BREAK |
| Session XI: Session for Start-ups Chairpersons: Dr. Amit Misra and Dr. Sabyasachi Sanyal Venue: Auditorium | |
| Session Coordinator: Dr. Prem Prakash Yadav | |
| IL-29 (17:30-17:50) | Dr. Anirudh Ranganathan , Sekkei Bio, Chennai <i>“Tackling a hundred year old problem: Towards an oral insulin”</i> |
| IL-30 (17:50-18:10) | Dr. Deepak Agrawal , Sravathi AI Technology Private Limited, Bengaluru <i>“Molecular glue-design-evaluator (MOLDE): An advanced method for in-silico molecular glue design”</i> |
| Concept to Point of Care: Part 2 | |
| IL-31 (18:10-18:40) | Dr. Mukul Jain , Zydus Research Centre, Ahmedabad <i>“Desidustat: A new frontier in anemia management”</i> |
| Product Showcase | |
| (18:40-18:50) | Dr. Mandar Bodas , Elsevier Reaxys |

| | |
|---|--|
| | <i>“Advancing drug discovery and development with AI-powered data solutions”</i> |
| Session XII: Flash Talk Series 2 | |
| Chairpersons: Dr. T. Narender and Dr. Ritu Trivedi | |
| Venue: Auditorium | |
| Session Coordinator: Dr. Damodara Reddy N. | |
| 18:50-19:50 | 12 x 5 min talks by selected students/young faculty |
| 19:50 onwards | DINNER (CSIR-CDRI Lawn) |
| 22nd February, 2025 | |
| Session XIII: Tackling Anti-Microbial Resistance | |
| Chairpersons: Prof. Martin M. Matzuk and Dr. B N Singh | |
| Venue: Auditorium | |
| Session Coordinator: Dr. Arunava Dasgupta | |
| IL-32 (9:15-9:45) | Prof. Pei Zhou, Duke University, USA <i>“Novel antibiotics targeting lipid A biosynthesis in gram-negative bacteria”</i> |
| IL-33 (9:45-10:15) | Prof. Jayanta Haldar, Jawaharlal Nehru Centre For Advanced Scientific Research (JNCASR), Bangalore <i>“Small molecular therapeutics to target the bacterial cell envelope”</i> |
| IL-34 (10:15-10:45) (online) | Dr. Seamus O'Brien, The Global Antibiotic Research & Development Partnership (GARDP), UK <i>“Addressing the burden: Zoliflodacin for Gonorrhoea- an integrated development to access approach”</i> |
| 10.45-11.10 | TEA/COFFEE BREAK |
| Session XIV: Research Preparedness for Emerging Global Health Challenges | |
| Chairpersons: Prof. Pei Zhou and Dr. Atul Goel | |
| Venue: Auditorium | |
| Session Coordinator: Dr. Aamir Nazir | |
| IL-35 (11:10-11:40) | Dr. Daniel Goldberg, Bill & Melinda Gates Foundation, USA <i>“Advancing non-hormonal contraceptive drug discovery: Cultivating a global collaborative ecosystem”</i> |
| IL-36 (11:40-12:10) | Prof. Ian H. Gilbert, University of Dundee, UK <i>“Drug discovery for neglected infectious diseases”</i> |
| Panel Discussion (12:10-13:10) | |
| Dr. Radha Rangarajan (Director, CSIR-CDRI, Lucknow) | |
| Prof. Anil Koul (London School of Hygiene and Tropical Medicine, UK) | |
| Dr. Daniel Goldberg (Bill & Melinda Gates Foundation, USA) | |
| Prof. Christopher R McCurdy (University of Florida, USA) | |
| Prof. Ian H. Gilbert (University of Dundee, UK) | |

| | |
|----------------------|-----------------------------|
| 13:10 – 13:45 | Valedictory function |
| 13:45 onwards | Lunch and Departures |