



ANTIMICROBIAL RESISTANCE CONFERENCE (AMRC 2024)

Theme: “Exploring the Bioresources of India to fight
against Antimicrobial Resistance (AMR)”

April 04-05, 2024

Organized by

INSTITUTE OF BIORESOURCES AND SUSTAINABLE DEVELOPMENT (IBSD)

Takyelpat, Imphal, Manipur, India

www.ibsd.gov.in

ICMR-NATIONAL INSTITUTE OF CHOLERA AND ENTERIC DISEASES (ICMR-NICED)

CIT Road, Beliaghata, Kolkata, India

www.niced.org.in

In Association with

SOCIETY FOR ETHNOPHARMACOLOGY

Jadavpur, Kolkata, India

www.ethnopharmacology.in

Venue: Science City, Kolkata, India

PROGRAMSCHEDULE

REGISTRATION: 09:00 – 10:00 AM

Day 1: April 04, 2024

Venue: Science city auditorium, J.B.S. Haldane Avenue
Kolkata-700 046, India

INAUGURATION PROGRAM OF AMRC 2024

10:00 – 11:20 AM

Arrival of the Guests

Prof. PadmanabhanBalaram, Former Director, Indian Institute of Science (IISc)
Bangalore, India

Prof. Pulok K Mukherjee, Chairman, AMRC 2024 & Director, Institute of Bioresources &
Sustainable Development, Imphal, India

Dr. Shanta Dutta, Chairman, AMRC 2024 & Director, ICMR-National Institute of Cholera
and Enteric Diseases, Kolkata, India

Shri. Indraneel Das, Vice President, Society for Ethnopharmacology, Kolkata, India

Dr. Siddhartha Niyogi, Director of Health Service, Ex Officio secretary, Department of
Health & Family Welfare, Government of West Bengal.

Dr. Subhra Chakraborty, Director, National Institute of Plant Genome research,
New Delhi, India

Dr. S Indira Devi, Organizing Secretary, AMRC 2024 & Scientist, Institute of
Bioresources & Sustainable Development, Imphal, India

Dr. Sushmita Bhattacharya, Organizing Secretary, AMRC 2024 & Scientist, ICMR-
National Institute of Cholera and Enteric Diseases, Kolkata, India

Keynote address by:

Prof. PadmanabhanBalaram, Former Director, Indian Institute of Science (IISc), Bangalore, India

TEA BREAK : 11:20 – 11:30 AM**SCIENTIFIC SESSION I:
11:30 AM - 12:30 PM****“The crisis of AMR and Exploring Bioresources for the development of new generation antimicrobials”****Chairperson:****Dr. Arun Bandyopadhyay**, Director, Gujarat Biotechnological University, Gujarat, India**Dr. Sagar Sengupta**, Director, National Institute of Biomedical Genomics, Kalyani, India

Speaker	Title
Dr. Shanta Dutta Director ICMR-National Institute of Cholera and Enteric Diseases, Kolkata, India	Therapeutic intervention of <i>Shigella flexneri</i> by a herbal compound: a novel approach
Prof. Pulok Kumar Mukherjee Director Institute of Bioresources & Sustainable Development, Imphal, India	Medicinal Plants and other Bioresources of NER to combat AMR - New Generation Antimicrobials
Dr. Kh. Ranjana Head, Dept of Microbiology RIMS, Imphal	Infection Prevention and Control (IPC) in preventing Antimicrobial Resistance (AMR) in Healthcare facilities

**SCIENTIFIC SESSION II:
12:30 - 01:30 PM****“Resistance, surveillance, transmission, epidemiology and therapeutic approaches for Gram positive and gram negative bacterial infection”****Chairperson:****Dr. Amit Ghosh**, JC Bose Chair Professor (NASI), ICMR-NICED**Dr. V Ravichandiran**, Director, National Institute of Pharmaceutical Education & Research, Kolkata

Speaker	Title
Dr. Tushar Kant Beuria Scientist DBT-ILS, Bhubaneswar	Targeting the bacterial efflux pump to combat antimicrobial resistance in Methicillin-resistant <i>Staphylococcus aureus</i>
Dr. Saugata Hazra Associate Professor IIT Roorkee, Uttarakhand	360 Degree AMR Management: Unveiling the Strategic Endeavors Employed by the Hazra Group in Mitigating Antibiotic Resistance (ABR), with a Focus on Beta-Lactamase as a Molecular Indicator
Prof. Sanjay Jachak Professor, NIPER, Mohali, Punjab	Natural products as a potential source of Bacterial pump efflux inhibitors: An Arsenal against AMR
Dr. Sulagna Basu Scientist ICMR-NICED, Kolkata	Towards understanding the exchange of genes in the gut: the <i>mcr</i> example

LUNCH : 01:30 – 02:00 PM

PANEL DISCUSSION I

i-Connect Program: Business Meet: 02:00 PM - 03:30 PM

**“Bioresources to fight antimicrobial resistance (AMR) :
Development of New Generation Antimicrobials”**

Chairperson:

Prof. Pulok K Mukherjee, Director, Institute of Bioresources & Sustainable Development, Imphal, India

Dr. U.V Babu, Director, Himalaya Wellness Company, Bengaluru, India

PANELIST

Shri. Birendra K Sarkar President, Society for Ethnopharmacology, India & MD & CEO, Parker Robinson Pvt Ltd., Kolkata	Anish Chakraborty Chairman, Seacom Group & Seacom Skills University, Kolkata
Dr. Rajiv Rai Senior Vice President - Head R&D Emami Ltd., Kolkata, India	Shri Indraneel Das MD, Declibac Technologies Pvt. Ltd. Kolkata, India
Dr. V Ravichandiran Director, National Institute of Pharmaceutical Education & Research, Kolkata	Dr. U.V Babu Director, Himalaya Wellness Company, Bengaluru, India
Dr Anindya Dasgupta Scientific Manager, Himalaya Wellness Company, Bengaluru, India	Prof. Sanjay Jachak Professor, NIPER, Mohali Punjab, India
Dr. Gaurgopal Maiti Technical Advisor, Parker Robinson Pvt Ltd., Kolkata	Dr. Sunil K. Dubey General Manager Emami Ltd., Kolkata, India

SCIENTIFIC SESSION III: 03:30 - 04:45 PM

“Fighting AMR by intervening host pathogen interaction”

Chairperson:

Dr. Mamta Chawla Sarkar, Scientist-F, ICMR-NICED, Kolkata

Prof. Rajib Bandyopadhyay, Professor, Dept. of Instrumentation and Electronics Engg, Jadavpur University, Kolkata

Speaker	Title
Prof. Chittur V Srikanth Professor Regional Centre for Biotechnology, Faridabad	Salmonella mediated host epigenetic manipulation in immune evasion and chronic infections
Dr. S. Indira Devi Scientist, DBT-Institute of Bioresources and Sustainable Development (IBSD), Imphal	Antimicrobial peptides and bioactive metabolites from microbes and plant sources to combat against AMR
Dr. Mukesh Pasupuleti Principal Scientist CSIR-CDRI, Lucknow	Discovery and development of innovative novel next-generation biotherapeutics by Unveiling the Hidden Potential of the Innate Immune System: To tackle Emerging and Reemerging Pathogenic Infections
Dr. Anil Kumar Singh	Resistome characterization of clinically relevant

Scientist
CSIR-NEIST, Jorhat, India

enteric bacteria for β -lactam antibiotic
resistance

Panel Discussion Session II: ONE HEALTH

04:45 PM - 05:45 PM

Chairperson:

Dr. Subhra Chakraborty, Director, National Institute of Plant Genome research, New Delhi, India

Dr. Shanta Dutta, Director, ICMR-National Institute of Cholera and Enteric Diseases, Kolkata, India

PANELIST

Dr. Arun Bandyopadhyay
Director, GBU, Gujarat, India

Prof. Pallab Kanti Haldar
Director, SNPS, JU, Kolkata

Dr. Nanaocha Sharma
Scientist, DBT-IBSD, Imphal

Dr. Agniva Majumder,
Scientist, ICMR- NICED, Kolkata

Dr. Debjit Chakraborty
Scientist, ICMR- NICED, Kolkata

Dr. K Jeyaram
Scientist, DBT-IBSD, India

Dr. Falguni Debnath
Scientist, ICMR- NICED, Kolkata

Dr. Pardeep K. Bhardwaj
Scientist, DBT-IBSD, Imphal

POSTER SESSION I: 02:30 PM - 05:00 PM

Evaluators:

Dr. Pardeep K. Bhardwaj, Scientist, DBT-IBSD, Imphal

Prof. Sanjay Jachak, Professor, NIPER, Mohali, Punjab

Dr. Surajit Basak, Scientist, ICMR-NICED, Kolkata

Dr. Amrita Bhattacharjee, Scientist, ICMR-NICED, Kolkata

Dr. Anindya Sundar Ghosh, Professor, IIT, Kharagpur

Dr. Lokesh Deb, Scientist, DBT-IBSD, Imphal

Shri. Prabir Banerjee, EC Member, Society for Ethnopharmacology, India

Dr. Amit Kar, Project Scientist, DBT-IBSD, Imphal

Day 2: April 05, 2023

Venue: Science city auditorium, J.B.S. Haldane Avenue
Kolkata-700 046, India

HALL – 1: Scientific Session IV

10:00 AM - 11:00 AM

“Policy aspects of AMR and antibiotic stewardship”

Chairpersons:

Dr. Alok Deb, Scientist G, ICMR-NICED, Kolkata

Dr. Subhash C Mandal, EC Member, Society for Ethnopharmacology, Kolkata, India

Speaker	Title
Prof. Arun K. Singh Professor, Neonatology, AIIMS Jodhpur, Rajasthan	Strategies for Mitigating Antibiotic Resistance: A Comprehensive Policy Approach
Dr. Dipankar Majhi Deputy Director Public Health Dept. of Health & Family Welfare, Govt. West Bengal, Kolkata	
Prof. Suparna Chatterjee Professor, Dept. of Pharmacology, Institute of Postgraduate Medical Education & Research, Kolkata	

HALL – 1: Panel Discussion Session: III

11:00 – 12:00 PM

Lead Development and Combinational Approach To Mitigate AMR

Chairpersons:

Dr. Pardeep K Bhardwaj, Scientist, DBT-IBSD, Kolkata

Dr. Sandipan Ganguly, Scientist F, ICMR-NICED, Kolkata

PANELIST

Dr. Suman Kanungo Scientist-F, ICMR- NICED, Kolkata	Dr. Pallavi Indwar, Scientist-D, ICMR- NICED, Kolkata
Dr. Provash C. Sadhukhan Scientist-E, ICMR- NICED, Kolkata	Dr. Agniva Majumder Scientist-C, ICMR- NICED, Kolkata
Dr. Sandip Mukhopadhyay Scientist-E, ICMR-NICED, Kolkata	Dr. Sushmita Ray CARI, Kolkata

HALL -2: Scientific Session V

11:00 AM - 12:00 PM

“Role of anti-microbial peptides, endophytes and microbiomes for prevention and control of AMR”

Chairperson:

Dr. Amit Pal, Scientist G, ICMR-NICED, Kolkata

Dr. K Jeyaram, Scientist, DBT-IBSD, India

Speaker	Title
Dr. Debprasad Chattopadhyay Former Director ICMR-NITM, Belagavi	Traditional Medicine: Can it be the Nature's Weapon against Drug- Resistance Microbes?

Dr. Sudipto Saha Associate Professor Bose Institute, Kolkata	Exploring microbial genes associated with antimicrobial resistance in the lung microbiome of respiratory disease patients
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HALL -1: Scientific Session VI
12:00 PM – 01:30 PM

“Reservoirs of antibiotic resistance genes, ecology and carriage”

Chairpersons:

Prof Asis Mazumdar, Nodal Coordinator, RCFC (ER), Jadavpur University, Kolkata
Dr. Kh. Ranjana, Head, Dept of Microbiology, RIMS, Imphal

Speaker	Title
Dr. Asish K Mukhopadhyay Scientist G ICMR-NICED, Kolkata	Carbapenem Resistance in clinical Vibrio cholerae O1 strains: A Challenge to Modern Medicine
Dr. Anindya Sundar Ghosh Professor, IIT Kharagpur, India	P-type ATPase zinc transporter Rv3270 of <i>Mycobacterium tuberculosis</i> enhances multi-drug efflux activity against structurally unrelated antibiotics
Dr. Rajlakshmi Viswanathan Scientist E ICMR-NIV, Pune	Antimicrobial resistance at animal human interface-A One Health Approach
Dr. Vishwanath Bhagwath Principal Scientist, R&D Himalaya Wellness Company Bangalore, India	Exploring Indian Medicinal Plants as Potential alternatives

HALL - 2: SCIENTIFIC SESSION VII
12:00 PM – 01:30 PM

“Mechanism of action of new compounds (natural and synthetic) and repurposed drugs”

Chairperson:

Dr. Lokesh Deb, Scientist, DBT-IBSD, Imphal
Shri. Amitavo Das, Treasurer, Society for Ethnopharmacology, India

Speaker	Title
Dr. Souvik Mukherjee Associate Professor, BRIC-National Institute of Biomedical Genomics (NIBMG), Kalyani, West Bengal	Deciphering the Host Microbiome Interactions that leads to the Development of Antimicrobial Resistance in Chronic Inflammatory Diseases in Humans
Dr. Alok Kr. Chakrabarti , Scientist, ICMR- NICED, Kolkata	Revitalizing Phage Therapy For Cholera: Isolation, Screening And Characterization of Bacteriophages To Evaluate Therapeutic Potential
Dr. Sushmita Bhattacharya Scientist, ICMR-NICED, Kolkata	Unveiling the role of HMGB1 (High Mobility group Box1) inhibition in autophagy during <i>Helicobacter pylori</i> infection

LUNCH: 01:30 -02:00 PM

**Hall 1 - ORAL PRESENTATION SESSION
2:00 PM - 03:30 PM**

Dr. Kh. Ranjana, Head, Dept of Microbiology, RIMS, Imphal
Dr. W. Mohendro Singh, Administrative Officer, DBT-IBSD, Imphal, India
Dr. Alok Deb, Scientist G, ICMR-NICED, Kolkata
Dr. Mamta Chawla Sarkar, Scientist F, ICMR-NICED, Kolkata
Dr. Rajlakshmi Viswanathan, Scientist E, ICMR-NIV, Pune
Dr. Amit Kar, Project Scientist, DBT-IBSD, Imphal
Dr. Sujoy K Das, Scientist, CSIR-Indian Institute of Chemical Biology, Jadavpur, Kolkata

**Valedictory Program:
03:30 PM - 04:30 PM
Distribution of Awards**

Dr. Shanta Dutta, *Director, ICMR-National Institute of Cholera and Enteric Diseases, Kolkata, India*
Prof Asis Mazumdar, *Nodal Coordinator, Regional Cum Facilitation Centres, Jadavpur University, Kolkata*
Dr. Subhra Chakraborty, *Director, National Institute of Plant Genome Research, New Delhi, India*
Dr. Sulagna Basu, *Scientist, ICMR-National Institute of Cholera and Enteric Diseases, Kolkata, India*
Dr. S Indira Devi, *Organizing Secretary, AMRC 2024 & Scientist, Institute of Bioresources & Sustainable Development, Imphal, India*
Dr. Sushmita Bhattacharya, *Organizing Secretary, AMRC 2024 & Scientist, ICMR-National Institute of Cholera and Enteric Diseases, Kolkata, India*
Prof. Pulok K Mukherjee, *Director, Institute of Bioresources & Sustainable Development, Imphal, India*