

**ARS 2023  
Scientific Program**

8.30 AM - 9.20 AM	<b>Registration</b>
9.20 AM-9.25 AM	<b>Welcome Address</b> - Dr Goutam Ghosh, Vice President, AFOB
9.25 AM- 9.30 AM	<b>Presidential Address</b> - Prof Wen Chien Lee, Past President, AFOB
9.30 AM -10.00 AM	<b>Plenary Lecture -1</b>
	Introduction of the Speaker by Dr Goutam Ghosh
	<b>Prof S. Vрати, Executive Director, RCB, Faridabad</b> Rotavirus Vaccine Development: The India story
10.00 AM -11.30 PM	<b>Technical Session: Vaccines and Biopharmaceuticals - I</b>
	<b>Chair:: Prof Chowdhury R. Ahsan</b> <b>Co-Chair: Dr Nimesh Gupta</b>
10.00 AM -10.30 PM	<b>KN -1</b> <b>Prof Chowdhury R. Ahsan, University of Dhaka, Dhaka, Bangladesh</b> In search of protective antibodies against Streptococcus pneumoniae and their applications
10.30 AM -11.00 PM	<b>KN-2</b> <b>Dr Nimesh Gupta, National Institute of Immunology, New Delhi</b> T-cell immunity to COVID-19 vaccines
11.00 AM -11.30 PM	<b>KN -3</b> <b>Prof Amit K Chattopadhyay, Aston University, UK</b> AI in Drug Repurposing: the MRSA chapter
11.30 AM -11.45AM	<b>TEA</b>
11.45 AM-13.30AM	<b>Technical Session: Vaccines and Biopharmaceuticals - II</b>
	<b>Chair: Prof Duk Jae Oh</b>
	<b>Co-Chair: Prof Goutam Ghosh</b>
11.45AM -12.15PM	<b>KN-4</b> <b>Prof Duk Jae Oh, Sejong Univ, Seoul, Republic of Korea</b> Development of Serum-free, DMSO-free, Chemically-defined Cryopreservation Media for Mammalian Cells
12.15PM -12.45PM	<b>KN-5</b> <b>Prof Goutam Ghosh, Vaxfarm Life Sciences, India</b> Development of a Novel Cell Culture based Combination Vaccine for Sheep Pox Goat Pox and PPR diseases for Ruminants
12.45PM-1.15PM	<b>KN-6</b> <b>Prof. Muhamad Sahlan, Universitas Indonesia, West Java, Indonesia</b> The Development of Biosensor for the Detection of Dengue Virus
1.15PM-1.30PM	<b>OP-1</b> <b>Dr Rinkoo D Gupta, South Asian University, New Delhi, India</b> Designing and production of therapeutic monoclonal antibody

1.30 PM- 2.30 PM	<b>LUNCH and POSTER SESSION (All Posters)</b>
2.30 PM- 5.30 PM	<b>Technical Session: Environmental Biotechnology</b>
	<b>Chair: Prof Chi-Wei Lan</b> <b>Co-Chair: Prof Chirashree Ghosh</b>
2.30 PM-3.00PM	<b>KN-7</b> <b>Prof Chi-Wei Lan, Yuan Ze University, Taiwan</b> Developments of a sustainable process for nano-biochemical production from Brewing Industrial Waste
3.00 PM -3.30 PM	<b>KN-8</b> <b>Prof Chirashree Ghosh, Delhi University, Delhi</b> Effect of bioaerosols exposure on acute exacerbation among individuals with COPD in North Indian Population
3.30 PM -3.45 PM	<b>OP-2</b> <b>Dr S. S. Lahiri, INMAS, D.R.D.O., New Delhi, and Amity Univ, NOIDA</b> Survival after a nuclear attack and also a safe cure for cancer
3.45 PM- 4.00 PM	<b>OP-3</b> <b>Ms Ayesha Tasmin, East-West University, Dhaka, Bangladesh</b> Microplastics pollution in the soil and terrestrial ecosystems: A global and Bangladesh perspective.
4.00 PM- 4.15 PM	<b>OP-4</b> <b>Ms Priyanka Bhatia, Dept of Biotechnology, Jamia Millia Islamia, New Delhi</b> Targeting Mitochondrial Associated Metabolism to impede Arsenic Toxicity and enhance C-N metabolism in multi-nutrient primed rice seedlings.
4.15 PM- 4.30 PM	<b>OP-5</b> <b>Ankita Shelly, Department of Environmental Studies, University of Delhi, Delhi</b> Risk of bioaerosol exposure in the indoor-outdoor institutional environment: a case study from urban city of Delhi, India
4.30 PM – 4.45 PM	<b>OP-6</b> <b>Mr Vargobi Mukherjee, Amity University Chhattisgarh, Raipur, India</b> Removal of heavy metal by using bacterial exopolysaccharide (EPS) alternative bioremediation techniques
4.45PM -5.00 PM	<b>OP-7</b> <b>Ms Jyoti Mangain, Department of Botany, Jamia Hamdard, New Delhi</b> Enrichment of triterpenoids amended with abiotic elicitors and genetic fidelity assessment of in vitro grown <i>Pluchea lanceolata</i>
5.00 PM -5.15 PM	<b>OP-8</b> <b>Mr.Himanshu Saini, Department of Biotechnology, Jamia Millia Islamia, New Delhi</b> Field-based ionomy analyzes the arsenic-elicited response of wheat plants ( <i>triticum aestivum</i> L.): a perspective on selecting stress-adaptive genotypes
5.15 PM- 5.45 PM	<b>TEA and POSTER Session (All Posters)</b>
5.45 PM	CLOSE for the Day

<b>Day 2 (April 28, 2023)</b>	
9.30 AM - 10.10 AM	<b>Plenary Lecture-2</b>
	Introduction of the Speaker by Prof V S Bisaria, Formerly at IIT Delhi, New Delhi.
9.15 AM – 9.55 AM	<b>PL-2</b> <b>Prof Noriho Kamiya, Kyushu University, Fukuoka, Japan</b> Biomolecular engineering by Artificial Protein Lipidation
9.55AM -10.15AM	<b>TEA</b>
10.15 AM- 12.30 PM	<b>Technical Session: Biofuels and Bioenergy</b>
	<b>Chair: Prof Tomohisa Hasunuma</b> <b>Co-Chair: Prof Abul Kalam Azad</b>
10.15 AM –10.45AM	<b>KN-9</b> <b>Prof Tomohisa Hasunuma, Kobe University, Kobe, Japan</b> Advanced cellulosic biorefinery and digital engineering biology
10.45 AM -11.15 AM	<b>KN-10</b> <b>Dr Abul Kalam Azad, Shahjalal University of Science &amp; Technology, Sylhet, Bangladesh</b> AGRO-INDUSTRIAL AND MUNICIPAL RESIDUAL BIOMASS AS FEED-STOCK FOR PRODUCTION OF INDUSTRIALLY IMPORTANT ENZYMES AND BIODIESEL
11.15 AM-11.30 AM	<b>OP-9</b> <b>Dr Gobinath Rajgopalan, South Asian University, New Delhi</b> Cost-effective production of <i>Trametes cinnabarina</i> laccase (lac1) from free and immobilized recombinant <i>Pichia pastoris</i> by using crude glycerol as substrate
11.30 AM -11.45 AM	<b>OP-10</b> <b>Ms Tasnim Reza Khan Zahra, East West University, Dhaka, Bangladesh.</b> Investigating the effect of pH and temperature on L-asparaginase production by <i>Bacillus licheniformis</i> kr-6 strain isolated from the soil in Bangladesh
11.45 AM- 12.00 PM	<b>OP-11</b> <b>Dr Preeti Sharma, Shri Mata Vaishno Devi University, Katra, Jammu &amp; Kashmir</b> Design of experiment approach was used for production of bioethanol from fruit pulp waste
12.00 PM- 12.15 PM	<b>OP-12</b> <b>Dr Imran Ahmad, Aligarh Muslim University, Aligarh, India</b> Computational fluid dynamics simulation modelling for the cultivation of microalgal monoculture in axenic enclosed Bubble Column Photobioreactor
12.15 PM- 12.30 PM	<b>OP-13</b> <b>Dr Parvez Singh Slathia, Shri Mata Vaishno Devi University, Katra, Jammu &amp; Kashmir</b> Production of bioethanol fuel from sesame stalk by using design of experiment approach for optimization of pre-treatment methods and enzymatic hydrolysis
12.30 AM - 1.30 PM	<b>Visit to Biotech Start-ups</b>
1.30 PM- 2.15 PM	<b>LUNCH</b>

2.15 PM -4.45 PM	<b>Technical Session: Bio-Process Technologies</b>
	<b>Chair: Prof S K Khare</b> <b>Co-Chair: Prof Prakrit Sukyai</b>
2.15 PM -2.45 PM	<b>KN-11,</b> <b>Prof S K Khare, Indian Institute of Technology, Delhi, New Delhi, India</b> Biomass valorisation into commodity chemicals: A circular bio-economic approach towards sustainable development and waste management
2.45 PM -3.15 PM	<b>KN-12</b> <b>Prof. Prakrit Sukyai, Department of Biotechnology, Faculty of Agro-Industry, Kasetsart University, Chatuchak, Bangkok, Thailand</b> Cellulosic value-added products from sugarcane bagasse
3.15PM-3.45PM	<b>KN-13</b> <b>Prof. Ashok K. Dubey, Netaji Subhas University of Technology, New Delhi</b> Endophytic Streptomyces sp. strain ADR1 is a rich source of antioxidant metabolites with broad spectrum activities against gram-positive pathogens and their biofilms
3.45 PM -4.00 PM	<b>OP -13</b> <b>Dr Krittitee Thongnok, Kasetsart University, Bangkok, Thailand</b> Biological inspired regenerated cellulose bio-ceramic scaffold induced by polydopamine
4.00 PM- 4.15 PM	<b>OP-14</b> <b>Dr Naphat Usawattanakul, Kasetsart University, Bangkok, Thailand</b> Development of multi-layered active wound dressing from Dendrobium Sonia Earsakul cellulose nanofibril and extract
4.15 PM -4.30 PM	<b>OP-15</b> <b>Mr Khushal Mehta, SRM University-AP, Andhra Pradesh, India</b> Exogenous supply of seaweed extract to mitigate growth with high energy-yielding compound accumulation in Scenedesmus sp. under various stress conditions
4.30 PM -4.45 PM	<b>OP-16,</b> <b>Dr Arman Hamza, Department of Chemical Engineering, IBBL Lab, IIT Hyderabad</b> Production of mushroom powder and its metabolites for medicinal applications
4.45 PM -5.00 PM	<b>OP-17</b> <b>Dr Priyamedha Yadav, South Asian University, Rajpur Road, Maidan Garhi, New Delhi</b> Human paraoxonase-2 as a potential anti-biofilm agent
5.00 PM -5.15 PM	<b>OP-18,</b> <b>Dr Monika Kumari, Department of Biotechnology, Gauhati University, Guwahati, India</b> Effect of phenylalanine and 3-methyl-2-benzothiazolinone hydrazone on betalain biosynthesis related metabolites in amaranthus tricolor seedlings
5.15 PM -5.30 PM	<b>OP-19. Nidhi Adlakha, Regional Centre for Biotechnology, NCR-Biotech Cluster, Faridabad, India</b>

	Stoichiometric balance ratio of inducers stimulates production of versatile cellulases for cellulose bioconversion in <i>Talaromyces cellulolyticus</i>
5.30PM- 5.45PM	<b>TEA</b>
	<b>Technical Session: Bioentrepreneurship</b>
	<b>Chair: Prof Wen Chien Lee</b>
5.45PM – 6.15 PM	Introduction of the Speaker by Prof S. Dey, Formerly at IIT Kharagpur, Kharagpur, India <b>PL-3</b> <b>Prof Wen Chien Lee, National Chung Cheng University, Chiayi, Taiwan</b> ESCHERICHIA COLI AS THE WORKHORSE DRIVING THE BIOECONOMY
6.15 PM 6.30 PM	<b>OP-20</b> <b>Anil Kejriwal,</b> <b>I2Cure, Singapore</b>
6.30PM -6.45 PM	<b>Poster Awards by Prof Satyahari Dey, Vice President, AFOB</b>
	<b>Closing Remarks by Dr Goutam Ghosh, Conference Chair, ARS 2023</b>
	<b>Day 3 (April 29, 2023)</b>
9.30 AM-10.30 AM	<b>AFOB India RBO Management Meeting</b>
9.30 AM onwards	<b>City Sight Seeing Tour (New Delhi)*</b> *partially subsidised. Interested members may contact registration desk on 27 <sup>th</sup> April 2023

## Poster Presentation

	Name & Affiliation	Title
1.	<b>Bhoomika Patel</b> <b>Bioscience and Bioengineering, Indian Institute of Technology Guwahati, Guwahati</b>	Production of lovastatin under submerged fermentation by aspergillus terreus
2.	<b>Sapna_Lonare</b> <b>Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee,</b>	Structural insight of drug designing against periplasmic cystine binding protein (clastcya) of candidatus liberibacter asiaticus
3.	<b>Yashika_Bansal</b> <b>Department of Botany, Jamia Hamdard; New Delhi,</b>	Ploidy status, nuclear dna content and start codon targeted (scot) genetic homogeneity assessment in digitalis purpurea l., regenerated in vitro
4.	<b>Nidhi Dhama</b> <b>South Asian University, Rajpur road, New Delhi,</b>	Demonstration and characterization of scfv antibodies generated from the fubc immunized mice
5.	<b>Ifthikhar_Zaman</b> <b>Biotechnology Program, Brac University, Dhaka, Bangladesh</b>	Isolation and characterization of potential polyethylene degrading soil bacteria from Dhaka, Bangladesh
6.	<b>Koushalya_S</b> <b>Centre for Rural Development and Technology, Indian Institute of Technology, New Delhi,</b>	Profiling the secondary metabolites and nutritional properties of chlorella minutissima for food applications.
7.	<b>Md. Ebrahim Khalil</b> <b>Faculty of Life Sciences and Biotechnology South Asian University, New Delhi</b>	A strategy of sequential one factor-at-a-time optimization process significantly enhances hydrogen production from wild type Clostridium strain by using crude glycerol as major substrate
8.	<b>Sachin_Maji</b> <b>Department of Biotechnology, IIT Kharagpur, Kharagpur -721302</b>	Antioxidant and prebiotic potential of alkali-soluble non-starch polysaccharides from barnyard millet grain
9.	<b>Sandip Shit</b> <b>Department of Biotechnology, IIT Kharagpur, Kharagpur, 721302</b>	Prebiotic potential of water-soluble non-starch polysaccharides extracted from proso millet .
10.	<b>Anant_Mohan_Sharma.</b> <b>Laboratory of Plant Cell Wall Biology, Regional Centre for Biotechnology, Faridabad.</b>	Co-expression of xylanases and acetyl xylan esterase improves lignocellulosic biomass properties plant cell wall digestibility.
11.	<b>Md_Fahim_Khalid.</b> <b>Faculty of Life Science and Biotechnology, South Asian University, New Delhi</b>	Designing of a single-chain variable fragment antibody against dengue virus envelope protein
12.	<b>Anshu_Mathur</b> <b>Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, Roorkee</b>	Mycoremediation of azo dyes by lentinus squarrosulus af5: proteome dynamics and putative metabolic cascades
13.	<b>Komal Arora.</b> <b>Vaxfarm Life Sciences, New Delhi.</b>	Development of a Cell Culture based Chikungunya vaccine