CONFERENCE THEMES

Immune – mediated inflammatory responses

AICGG '23

- Impact on neurobiology
- Bioinformatics and therapeutics
- Long COVID
- Human Health & Diseases
- Cell biology & Signaling
- Genetics and Epigenetics
- Cancer biology
- Medicinal plants as therapeutics
- Plant biotechnology and diseases
- Application of omics
- Genetic toxicology

PRESENTATION

Plenary lectures will be of 25 minutes and invited lectures will be of 20 minutes duration. Oral Presentations will be of 10 minutes duration. Poster dimensions: 34" x 42" (W x H)

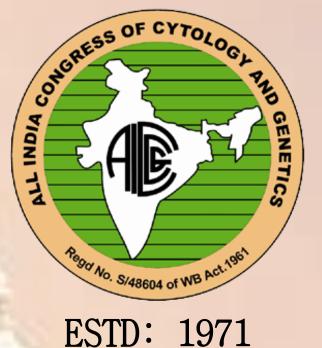
ABSTRACT

Abstracts (oral and poster presentations) should be limited to 200 words and would consist of title, authors' name, affiliations and body should be sent to Dr. Ashok K. Giri at aicgg.in@gmail.com, strictly as MS-Word document, latest by ^{22nd} January, 2023. Selected Lectures will be published as 20th AICGG proceedings in the Journal "THE NUCLEUS" published by Springer, Nature.

ACCOMODATION

Participants will have to pay for registration and accommodation at guest house/hotel (on sharing basis). Accommodation will be on first come first served basis. Registration form should be duly filled up and sent to Dr. Ashok K. Giri (aicgg.in@gmail.com) on or before 22.01.23. Bookings for accommodation will be made strictly against payment of registration fee and accommodation charges.

All India Congress of Genetics And Genomics



20th All India Congress of Genetics and Genomics

National Special Symposium on "Impact of COVID- 19: A Retrospective Analysis on **Human Health and Environment"** January 30 - 31, 2023

Jointly Hosted by **CSIR-Indian Institute of Chemical Biology**

X

Archana Sharma Foundation of Calcutta









INVITATION

With immense pleasure, we invite you all to the 20th All India **Congress of Genetics and Genomics, to be held at CSIR-Indian** Institute of Chemical Biology, Kolkata, during January 30-31, 2023. The congress aims to provide an excellent forum for wide discussion of many of the issues in the field of virus, bacteria; plant, animal and human genetics. In addition to invited lectures posters will be the main form of presentation with a dedicated young scientist session. We solicit your active participation.

Ashok K. Giri President **20th AICGG, CSIR-IICB**

ALL INDIA CONGRESS OF GENETICS AND GENOMICS

President:

Vice President :

Secretary Convener :

Prof. Asis Datta, D.Sc., FNASc., FASc., FNA. FTWAS (New Delhi)

Prof. Partha P. Majumder, Ph.D., FASc., FNASc., FNA. (ISI) Prof Arun Bandyopadhyay, PhD (CSIR-IICB, Kolkata

Dr. Ashok K. Giri, Ph.D., D.Sc., FNASc., **FNA. (CSIR-IICB, Kolkata)**

Secretary:

Jt. Secretary Convener: Dr. Pritha Bhattacharjee, Ph.D. (CU, Kolkata)

> **Prof. Anita Mukherjee, Ph.D.** (CU, Kolkata)

VENUE

Kolkata, popularly known as City of Joy, is a city harnessing the conglomeration of different cultural communities of India and abroad. The British influence on the architectural lineage of the Metropolis lies with its Greco-Roman style buildings and the aristocratic life style of yesteryears. CSIR-Indian Institute of Chemical Biology was established in 1935 as Indian Institute of Medical Research and rechristened in 1956. The institute has developed an oral vaccine for cholera, herbal products for controlling gastric ulcer, diagnostic kits for malignancy and hormonal disorders, etc. The conference will be held in the Prof J. C. Ray Auditorium, CSIR-IICB. 4, Raja S. C. Mullick Road, Kolkata 700032.

Organizing Committee

Chairperson. Prof Arun Bandyopadhyay, Director (CSIR-IICB) President Dr. Ashok K. Giri (CSIR-IICB) Organizing Secretary: Dr. Pritha Bhattacharjee (C.U) Convenor Dr. Smrutisanjita Behera (CSIR-IICB) Treasurer: Dr. Anita Mukherjee (C.U.)

Members.

Dr. Amita Pal, Bose Institute (Rtd.) Dr. Dona Sinha, CNCI Dr. Bhaswati Pandit, NIBMG Dr. Maumita Bandyopadhyay, CU Dr. Rajib Bandyopadhya, BU Dr. Parinal K. Khan, PU Dr. T., P. Singh, RKCollege, MU (Retd)

Dr. T. Srinivasu, NU (Rtd.) Dr. Asoke Pal, MGIMS Maharashtra. Dr. Sutapa Mukherjee, CNCI Dr. Nilanjana Banerjee, MVK Dr. Nandajee Kumar, MU (Rtd.) Dr. Sudin Bhattacharya, CNCI (Rtd.)



Final Program for 20th All India Congress of Genetics and Genomics & National Special Symposium on Impact of COVID- 19: A Retrospective Analysis on Human Health and Environment Organized by CSIR-Indian Institute of Chemical Biology And Archana Sharma Foundation of Calcutta Jan 30-31, 2023

	January 30, 2023
Time	Sessions/Talks
9:30am – 10:30am	Registration
9:50 am – 10:00 am	Inaugural Function Lighting of the Lamp
10:00 am -10:30 am	Welcome Address by Prof. Arun Bandyopadhyay , Director, IICB Address by Prof. Partha P. Majumder , Vice-President, AICCG Address Prof. Indranil Manna, Director of IIT-Kanpur
	Address by Dr. Ashok K. Giri , President, 20 th AICCG Address by Dr. Pritha Bhattacharjee, Organizing Secretary, Vote of thanks by Prof. Anita Mukherjee , Secretary, AICCG
10:30am – 11:00am	High Tea
	Plenary Session Chairpersons: Dr. Chandrima Shaha & Dr. Amit Ghosh
11:00am – 11:10am	Introductory Remark by Prof. Indranil Manna, Director of IIT-Kanpur about Professor G. K. Manna
11:10am -11: 50 am	8th Prof. G. K. Manna Memorial LectureDr. Sagar Sengupta, Director, NIBMG
11:50am -11:55 am	Award to Dr. Sagar Sengupta by Prof. Indranil. Manna
	Chairpersons: Dr. Chitra Mandal & Dr. Kunal Ray
12:00 – 12: 20pm	Introductory Remark by Prof. Manju Sharma aboutProfessor A.K. Sharma
12:20pm –12:55pm	3rd Prof. A. K. Sharma Memorial Lecture Dr. Arun Bandyopadhyay, Director, CSIR-IICB
12:55pm - 1:00pm	Award to Dr. Arun Bandyopadhyay by Dr. Chitra Mandal
1:30pm – 2:30pm	Working LUNCH
1:00 pm – 3:00 pm	POSTER SESSION

	Technical Session-1		
CI	Chairpersons: Dr. Syamal Roy and Dr. Susanta Roychowdhury		
3:00pm - 3:15pm	Dr. Dhrubajyoti Chattopadhyay, VC, SNU		
3:15pm – 3:30pm	Modulation of host cell glycolysis by influenza A virus structural proteins		
	Maitreyi S Rajala Malaayian Viralaayi Labaratary, Sabaal of Diatashradaayi Jayyaharlal		
	Molecular Virology Laboratory, School of Biotechnology, Jawaharlal Nehru University, New Delhi		
3:30pm – 3:45pm	A convalescent plasma RCT in India gleaned major insights into severe COVID-19		
	pathogenesis		
	Dr. Dipyaman Ganguly, CSIR-IICB		
3:45pm – 4:00pm	Therapeutic and Diagnostic Potential of the Human Gut Virome		
	Dr. Kanchan Bhardwaj		
	Department of Biotechnology, Faculty of Engineering and Technology, Manav Rachna International Institute of Research & Studies, Faridabad, Haryana		
4:00pm-4:15pm	Human PRE-PIK3C2B exhibits long-range intra- and inter-chromosomal		
	interactions with regions enriched in repressive marks Dr. Jayant Maini		
	Faculty, MRIIRS, Faridabad		
4:15 pm -4:30 pm	TEABREAK		
	Technical Session-2		
	Chairpersons: Dr. Pijush Das and Dr.Nahid Ali		
4:30 pm- 4:45 pm	Insight into the DNA breaks-induced genomic instability and the underpinning cause		
	of human diseases.		
	Prof. Benu Brata Das		
	Laboratory of Molecular Biology, School of Biological Sciences, Indian Association for the Cultivation of Science		
4:45 pm-5:00 pm	To die or not to die: Who takes the call, host or parasite?		
4.45 pm-5.00 pm	Dr. Anindita Ukil, Department of Biochemistry, CU		
5:00 pm -5:15 pm	Oligomeric state of Copper Transporter CTR1 governs its endocytosis		
5.00 pm -5.15 pm	Dr. Arnab Gupta		
	Department of Biological Sciences, Indian Institute of Science Education and		
	Research, Kolkata		
	Investigating heterogeneity in glaucomatous neurodegeneration using functional		
5.15 pm -5.30 pm	genomics		
5.20 mm 5 15 mm	Dr. Moulinath Acharya, National Institute of Biomedical Genomics		
5:30 pm – 5.45 pm	Genomic diagnostic: does it troubleshoot or ask more questions? Dr. Dipanjana Datta, Genetic consultant, Kolkata		
5:45 pm-6:00 pm	Early Effectors of crop destroyers could hold a key in strategizing		
1 ···· · F	control of disease progression		
	Dr. Sucheta Tripathy, CSIR-IICB		
6:00 pm -7:00 pm	Cultural Program		
7:00pm – 8:00pm	DINNER		

	January 31, 2023
	Technical Session: 3
Cha	irpersons: Dr. Rupak Bhadra & Dr. Partha Chakraborty
Time	Sessions/Talks
9:30 am – 9:45am	Matrix Metalloprotease 13 Promoter Polymorphism and Association with
	Endometriosis Progression
	Dr. Snehasikta Swarnakar
	CSIR-Indian Institute of Chemical Biology
	Jadavpur, Kolkata
9:45 am – 10:00am	Prof. Sharmila Sengupta, NIBMG
10:00am – 10:15am	How gene sequencing unravelled a tale of two protozoa and a virus:
	Kala-azar-a "triple pathogen" phenomenon?
	Dr. Subhajit Biswas, CSIR-Indian Institute of Chemical Biology
	Jadavpur, Kolkata
10:15am – 10:30am	GSH-mediated regulation of identified miRNAs in Arabidopsis thaliana
	to impart resistance against biotic and abiotic stress
	Dr. Sharmila Chattopadhyay
	CSIR-IICB
	Technical Session: 4
	Chairpersons: Prof Aniruddha Mukhopadhyay & Prof. Sampa Das
10:30am – 10:45am	Glutamate dehydrogenase regulates lifespan by connecting carbon and
	nitrogen metabolism in Saccharomyces cerevisiae
	Prof. G.K. Azad, Patna University
10:45am – 11:00am	Multifaceted effects of early life arsenic exposure: integrative approachh
	to determine the role of cellular memory modules as common origin for
	multiple disease endpoints
	Dr. Vikash Srivastava, IITR
11:00am – 11:15am	Association of JunD with NEAT1 lncRNA accentuates arecoline-induced head and
	neck carcinogenesis
11.15 11.20	Dr. Urmi Chatterjee, Department of Zoology, CU
11:15am – 11:30 noon	Genetic alterations and dysregulation of associated molecular pathways in arsenic
	induced bladder cancer; a hospital-based study in West Bengal
	Dr. Amlan Ghosh, Presidency University
11:30 noon – 12:00 noon	TEA BREAK
11.50 10011 12.00 10011	

	Technical Session:5
	Chairpersons: Dr. Sib Shankar Roy, CSIR-IICB & Dr. A.K. Azad Mandal, VIT
12:00 - 12:15 pm	Dr. Sujit Roy, Burdwan University
12:15 pm – 12:30 pm	Differences in COVID 19 manifestation and vaccine response among individuals with Down syndrome from high and low income countries Dr. Sujoy Ghosh, Calcutta University
12: 30pm – 12:45pm	Neurodegeneration in Copper Metabolism Disorders: An Attempt to Understand the Physiology to Understand the Pathology Dr. Ashima Bhattacharya Amity University
12: 45 pm – 1:00 pm	Fungal pathogens as bioherbicides against the noxious macrophyte water hyacinth Dr. Puja Ray Presidency University
1:00 pm – 1:15 pm	To smoke or not to smoke: Identifying polymorphic cis-regulatory variants as risk markers for lung carcinogenesis modulating chemotherapy responses in tobacco smokers of Eastern India Dr. Mainak Sengupta, University of Calcutta
1:30 pm – 2: 15 pm	Working Lunch

	Technical Session: 6
Chair Persons: Dr. Debabrata Biswas & Dr. Chinmay Chowdhury	
2:15 pm – 2:30 pm	Dysregulated Interplay of G2/M effectors: A Promising Link for Acquisition of Radioresistance in Cervical Cancer
	Dr. Sutapa Mukherjee, CNCI
2: 30 pm - 2:40 pm	The twain's tryst – intestinal microbes beguile mammalian well being
	Dr. Moumita Bhaumik Ghosh, NICED
2: 40 pm – 2: 50 pm	Good things in small packages: Phytochemicals and drug delivery
	today
	Dr. Swarupa Ghosh, Faculty, Alipurduar
2: 50 pm – 3:00 pm	Chloride transporters and GABA A receptors are important
	contributors in autism spectrum disorders
	Dr. Nilanjana Banerjee, Manovikas Kendra
3:00 pm – 3:10 pm	A bimodal regulator of apoptosis and inflammation in macrophage, exploited by Leishmania parasite as its key survival strategy.
	Dr. Shalini Roy, Department of Biochemistry, CU

	Technical Session – 7	
Chair Persons: Dr. Rupasree Ain & Dr. Krishnananda Chattopadhyay		
3:10 pm – 3:25 pm	Dr. Riddhi Dutta	
3:25 pm -3:35 pm	Alteration of host sialic acids during Leishmania donovani infection modulates	
	TLR4-mediated innate immune response	
	Dr. Jayashree Karmakar, IACS	
3:35 pm – 3:45 pm	Neuron- and oligodendroglia-derived blood EV-α-synuclein	
	distinguishes between synucleinopathies	
	Dr. Suman Dutta, IIIT, Kolkata	
3:45 pm – 3:55 pm	Epigenetic alteration of mitochondrial biogenesis	
	regulatory genes in chronic arsenic exposure: A	
	population-based study from West Bengal, India	
	Dr. Tamalika Sanyal, CU	
3:55 pm - 4:05 pm	Removal of the N-terminal MYB domains perturbs the	
	conformational stability of Arabidopsis thaliana MYB12	
	transcription factor under UV-B stress in vitro	
	Dr. Samrat Banerjee, Burdwan University	
	Understanding Ets1 mediated mitochondrial altercations through Drp1	
	Regulation	
4:05 pm - 4:15 pm	Deepshikha Ghosh, CSIR-IICB	
4:15 pm – 4:25 pm	Impairment of osteoblast's collagen synthesis and matrix mineralization	
	effectuates skeletal fluorosis in mice: involvement of epigenetic regulation	
	Arpan De Bhowmick, Viswa Bharati University	
4.05 4.45		
4: 25 pm – 4:45 pm	TEA BREAK	
4:45 pm – 5:15 pm	AICCG GENERAL BODY MEETING	
5:15 pm – 5:45 pm	Valedictory session	
5.15 pm – 5.45 pm	Announcement of Prizes	

Titles & Author names of the Poster Session

P1 The genetic variants of GABA-receptor subunits are significantly associated with autism spectrum disorders

Pallabi Adak, Swagata Sinha and Nilanjana Banerjee

Manovikas Biomedical Research and Diagnostic Centre, ²Out Patient Department. Manovikas Kendra Rehabilitation and Research Institute for the Handicapped, Kolkata

P2 Impairment of osteoblast's collagen synthesis and matrix mineralization effectuates skeletal fluorosis in mice: involvement of epigenetic regulation

Arpan Dey Bhowmik, Ansuman Chattopadhyay

Department of Zoology, Visva-Bharati, Santiniketan

P3 N-gene Variations in SARS-Cov-2 Genome Contributed to its Increased Virulence in the North Indian Population

Samiya Baby, Vineeta Sharma, Sukhveer Singh, Deepak Kumar Sachan, Abhishek Mishra, Ramakrishnan Parthasarathi, Vikas Srivastava

Systems Toxicology and Health Risk Assessment Group, CSIR-Indian Institute of Toxicology Research (CSIR-IITR), Vishvigyan Bhawan, 31 Mahatma Gandhi Marg, Lucknow.

P4 Obesity- is it a trap of leisure? Perspectives from lifestyle pattern, genetic –epigenetic mechanism and indigenous solution Sunandini Ghosh, Pritha Bhattacharjee Environmental Epigenomics Laboratory, Department of Environmental Science, University of Calcutta

P5 Zinc-Induced Adaptive Response To Ameliorate EMS-Induced Genotoxic Stress In Plants Manoswini Chakrabarti* And Anita Mukherjee

Department Of Botany, University of Calcutta

P6 Hypomethylation of IGF2 DMR promotes early onset of metabolic syndrome in mice after prenatal arsenic exposure

Kavita Koshta, Vikas Srivastava

Developmental Toxicology Laboratory, Systems Toxicology and Health Risk Assessment Group, CSIR-Indian Institute of Toxicology Research, Vishvigyan Bhawan, 31, Mahatma Gandhi Marg, Lucknow, Uttar Pradesh

P7 The ameliorative strategies against arsenic associated neurodegeneration and cognitive dementia: a promising insight

Souptik Iswar¹, Krishnendu Ghosh², Pritha Bhattacharjee

P8 Gestational arsenic-induced over-expression of PU.1 increases the microglial number in Balb/c mouse

Rajib Kumar Dey, Ranjana Kumari, Satyakam Patnaik and Debabrata Ghosh

Immunotoxicology Laboratory, Food, Drug & Chemical Toxicology Group and Nanomaterial Toxicology Group, CSIRIndian Institute of Toxicology Research (CSIR-IITR), Lucknow, Uttar Pradesh, India.

P9 Mechanistic insights of oncolytic measles virus induced selective killing of triple negative breast cancer cells

Alok Kumar, Geetanjali, Maitreyi S Rajala.

Molecular Virology Laboratory, School of Biotechnology, Jawaharlal Nehru University, New Delhi.

P10 Chronic arsenic toxicity: an endless challenge? Deciphering the 'genetic-epigenetic error' Ankita Das, Tamalika Sanyal, Pritha Bhattacharjee, Indraneel Rakshit, Pritha Bhattacharjee (Sr)^{1*}

Environmental Epigenomics Laboratory, Department of Environmental Science, University of Calcutta

P11 Interplay of TP63 isoforms with epithelial-mesenchymal transition, cancer stemness, and chemoresistance in oral squamous cell carcinoma

Anurima Samanta, Durgaprasad Nanda, Rajdeep Parmesh Guha, Anup Bhowmick, Amitava Ray, Srabanti Hajra, Aneek Chakraborty, Sudip Das, Dona Sinha Dept. of Receptor Biology and Tumor Metastasis, Chittaranjan National Cancer

P12 Tea extract realigns nrf2 for improved chemotherapeutic implications in lung adenocarcinoma cells

Suchisnigdha Datta and Dona Sinha

Dept. of Receptor Biology and Tumor Metastasis, Chittaranjan National Cancer Institute.

P13 Cell Death and Associated Pulmonary Damages in Calcium Carbide Exposed Mice-An in vivo Study

Soumi Banerjee, Pujita Ghosh and Kaustav Dutta Chowdhury Department of Zoology, Rammohan College

P14 Dual role of pro-inflammatory cytokines in Alzheimer's disease: Present research findings and future therapeutic targets

Apratim Goswami

PG Semester 1, Department of Zoology, Asutosh College, University of Calcutta.

P15 Immune-modulating effects of stearylamine bearing cationic liposomes, PC-SA in complexation to doxorubicin

Sneha Ghosh, Manjarika De, Sonali Das, Nahid Ali

CSIR-Indian Institute of Chemical Biology, Kolkata.

P16 An Integrated Approach to Analyse the Role of Turmeric (Curcuma longa) on EDC-induced Menstruation-related Disorders

Shrinjana Dhar, Pritha Bhattacharjee*

Environmental epigenomics laboratory, Department of Environmental Science, University of Calcutta.

P17 Comprehensive analysis of influenza A virus nucleoprotein interaction with host cell nucleolin

Mohd Salman, Shruti Mishra, Maitreyi S. Rajala

Molecular Virology Laboratory, School of Biotechnology, Jawaharlal Nehru University, New Delhi

P18 Role of Histone Acetylation, Deacetylation and Associated Regulators in Neurodegenerative Diseases: Present Perspective and Potential Therapeutic Targets **Koyena Das**

PG Semester 1, Department of Zoology, Asutosh College, University of Calcutta

P19 Targeting Biomarkers in Liquid Biopsy: Comprehending the disease progression in Urinary Blood Cancer

Sreejit Pal

Department of Zoology, Ramakrishna Mission Vidyamandira, Belur Math, Howrah, West Bengal

P20 Role of Epigallocatechin-3-Gallate in Regulation of Known and Putative Novel microRNAs Targeting the Wnt Pathway in Breast Carcinoma Cells Revealed by Next Generation Sequencing

Shrila Banerjee and A K A Mandal

Department of Biotechnology, School of Bio Sciences and Technology, VIT University, Vellore, India

P21 Glutathione regulates subcellular iron homoeostasis in Arabidopsis thaliana under iron starvation

Ranjana Shee, Soumitra Paul, Riddhi Datta

Department of Botany, University of Calcutta

P22 Investigation of the role of Xa3/26 in Xanthomonas oryzae pv. oryzae infection in Rice. **Ishani Mondal, Sandip Barman, Smrutisanjita Behera** Molecular Genetics Division, CSIP, Indian Institute of Chemical Biology, Kolkata

Molecular Genetics Division, CSIR-Indian Institute of Chemical Biology, Kolkata.

P23 AN ANALYSIS OF TUIBUR'S CARCINOGENIC POTENTIAL AND STOMACH CANCER IN MIZORAM

Priya Bhowmick*, Lalrinhlupuii², R.B. Muthukumaran², Pritha Bhattacharjee^{1*} Environmental Epigenomics Laboratory, Department of Environmental Science, University of Calcutta **P24** Repurposing of clinical drugs for anti-leishmaniasis therapy **Nicky Didwania, Chantal Reigada, Claudio A. Pereira, Nahid Ali** CSIR-Indian Institute of Chemical Biology, Kolkata, India.

P25 Role of E gene Xa27 in broad spectrum resistance against Xanthomonas oryzae pv oryzae **Hrimeeka Das, Smrutisanjita Behera**

Molecular Genetics Division, CSIR-Indian Institute of Chemical Biology, Kolkata.

P26 Leishmania donovani Aurora Kinase (LdAIRK): A promising diagnostic candidate against visceral leishmaniasis.

Rudra Chhajer, Anirban Bhattacharyya, Mohd. Kamran and Nahid Ali CSIR-Indian Institute of Chemical Biology, Kolkata

P27 Understanding the association of air pollution with Covid mortality and various sociodemographic factors in India

Mohmmed Talib, Kripabandhu Ghosh, Gopala Krishna Darbha

Environmental Nanoscience Laboratory, Department of Earth Sciences, Indian Institute of Science Education and Research Kolkata, Mohanpur, West Bengal 741246, India

P28 Genetic toxicology of cadmium selenide quantum dots (QDs) in Allium cepa plant **Ritesh Banerjee, Priya Goswami, Amitava Mukherjee and Anita Mukherjee** School of Biological and Environmental Sciences, Shoolini University, Solan – 173212, Himachal Pradesh, India

P29 Understanding The Mechanism of Compartmentalization of mRNAs and RNA Binding Proteins to RNA Processing Bodies in Mammalian Cells:

An in vitro approach

Sritama Ray, Kamalika Mukherjee, Suvendra N Bhattacharyya

RNA Biology Research Laboratory, Molecular Genetics Division, Council of Scientific and Industrial Research (CSIR)-Indian Institute of Chemical Biology, Kolkata, India

P30 Promising role of Curcumin in attenuating sodium arsenite-induced acute kidney injury: An in vitro and an in-silico study

Indraneel Rakshit, Pritha Bhattacharjee

Department of Environmental Science, University of Calcutta

P31 An evidence of drug repurposing for COVID-19 pandemic based on In-silico investigation from phenolic derivatives of Silybum marianum against SARS-CoV-2 proteins

Swaraj Mohanty¹, Soumya Lipsa Rath², Poornima Sharma¹ and Yasmin Ahmad Pathophysiology and Disruptive Technology(PDT) Division, Defence Institute of Physiology & Allied Sciences (DIPAS), Defence Research & Development Organization (DRDO), Lucknow Road, Timarpur, Delhi-110054, India **P32** Appraisal of antibacterial activity of the leaf extracts of Aegle marmelos L. Correa **Archana Kumari Singh and Vishnu Shankar Sinha** Department of Botany, Kolhan University, Chaibasa

P33 Appraisal of genotoxicity of aqueous leaf extract of some therapeutic plant species **Vishnu Shankar Sinha and Nandjee Kumar** Department of Botany, Tata College, Chaibasa, Jharkhand

P34 Role of herbal regimen in management of hypertension – a review **Arpita De and Trishita Mitra** Dept. of Botany, Nrupathunga University, Bengaluru, Karnataka

P35 A study of m6a epitranscriptomic writer-eraser modification in arsenic-induced acute kidney injury

Sudeshna Mandal, Pritha Bhattacharjee

Environmental Epigenomics Laboratory, Department of Environmental Science, University of Calcutta

P36 Prenatal arsenic exposure alters gut microbial composition and augments gut permeability in postnatal life despite an absence of ongoing arsenic exposure
Mainak Chakraborty, Oishika Das, Aaheli Masid, Anupam Gautam, Moumita Bhaumik ICMR-National Institute of Cholera and Enteric Diseases, P33 CIT Road, Scheme XM, Beliaghta, Kolkata, India

P37 Combined toxicity effects of polystyrene nanoplastics and polycyclic aromatic hydrocarbons on chlamydomonas reinhardtii **Gopi Narayanan, Gopala Krishna Darbha**

Gopi Narayanan, Gopala Krishna Darbha IISER, Kolkata.

P38 GSH-mediated regulation of identified miRNAs in Arabidopsis thaliana to impart resistance against biotic and abiotic stress

Aparupa Bose Mazumdar Ghosh, Riddhi Datta a , Kajal Mandal, Priyanka Boro, Asma Sultana and Sharmila Chattopadhyay

Plant Biology Laboratory, Organic & amp; Medicinal Chemistry Division; CSIR-Indian Institute of Chemical Biology 4, Raja S.C. Mullick Road Kolkata- 700 032

P39 Molecular determinants of Epithelial Mesenchymal Transition in mouse placenta and trophoblast stem cell

Shipra Kanti Jena, Shreya Das, Shreeta Chakraborty and Rupasri Ain

Division of Cell Biology and Physiology, CSIR-Indian Institute of Chemical Biology, Kolkata.

P40 Prenatal exposure to arsenic promotes sterile inflammation through Polycomb repressive element EZH2 and accelerates skin tumorigenesis in mice model Vineeta Sharma, Siddhartha Gangopadhyay and Vikas Srivastava Department of Biotechnology, Faculty of Engineering and Technology, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana.

P41 FOXO4: plays pivotal role in trophoblast giant cell formation and development of placenta Priyanka Das, Souray Ganguly, Anupam Gautam, Sandip Paul and Rupasri Ain Division of Cell Biology and Physiology, CSIR-Indian Institute of Chemical Biology, Kolkata.

P42 SREBP1a Promotes Ovarian Cancer Cell Proliferation And Migration Through DRP1-Mediated Mitochondrial Fission

Sk. Eashavan Tanbir and Sib Sankar Rov

Cell Biology and Physiology Division, CSIR-Indian Institute of Chemical Biology, Kolkata.

P43 Targeting vitamin-D3 (calcitriol) supplementation as a possible treatment regime to multiple sclerosis **Preetam Modak**

Ramakrishna Mission Vidyamandira, Belur Math