IABS North Zone 2024 Conference

Venue: JLN Auditorium, AIIMS, New Delhi, India
5-6 August 2024
Scientific Program

August 05th, 2024, Monday
Registration: 08:30 AM Onwards

Time	Faculty	Title
08:45-09:00	**Welcome Address**	Organizing secretary, IABS President, IABS-Secretary General
Chairpersons: **Y K Gupta, Hari S Sharma, Subrata Sinha, Umesh Kapil**		
09:00-09:20	Jagat R Kanwar AIIMS Bhopal	Real-time imaging and on-chip microfluidic assays: Nano-theranostics approached for precision nanomedicine
09:20-09:40	Snehasikta Swarnakar IICB- Kolkata	Transcriptional Regulation of Matrix Metalloproteinase-9 in Gastric Cancer-Hyperglycemia condition: Impact on Cellular Invasion
09:40-09:50	Kanchana (OP-1)	Identification and characterization of driver and passenger mutations in the cosmic genome screen mutation in the cosmic genome screens mutant dataset
09:50-10:00	Shweta Panwar (OP-2)	Portable optical biosensor for point-of-care monitoring of salivary glucose using a paper-based microfluidic handheld device
10:00-10:10	Neha Kashyap (OP-3)	Epigenetic Drug Screening Unveils Bromodomain as a Key Regulator of Trophoblast Syncytialization and Fetoplacental Growth
10:10-10:20	Asma Imran Ansari (OP-4)	Association of MATE1 (rs2289669) Gene Polymorphism with Metformin response in T2DM Patients
10:20-10:30	Aishwarya Singh (OP-5)	Autophagy in Tumor associated macrophages alleviates immunosuppressive phenotype and supports tumor progression in Urothelial Carcinoma of Bladder
10:30-11:00	**Tea/Coffee Break**	
Chairpersons: **Abbas Ali Mahdi, Vijay Kutala, Indu Verma, Elena Pavlyukova**		
11:00–11:20	B S S Rao NIMHANS Bangalore	Novel Therapies to Treat Depression-induced Cognitive Deficits
11:20–11:40	Naval K Vikram AIIMS New Delhi	MASLD – A recent overview
11:40-12:00	Ratnesh Tripathi Agilent	Making your NGS workflows work for you: Agilent integrated solutions in genomic analysis
12:00-12:20	Charu Yadav Medanta, Gurgaon	Transforming diagnostics with AI and automation solutions
12:20-12:30	Sonu Das (OP-6)	Unveiling the role of Liprin α-3 and Muscarinic Receptor signalling dynamics in COPD exacerbation
12:30-12:40	Ram Aasarey (OP-7)	Bridging between Prokineticins and T-reg cells in obesity-associated metabolic oxidative

		dysregulation in NAFLD
12:40-12:50	Nidhi Gupta (OP-8)	JS-K, a small molecule, mediated attenuation of autophagic flux alleviates multiple myeloma pathogen
12:50-13:00	Shivani Kumari (OP-9)	1D 1 H-NMR assisted metabolomic profiling and pathway analysis in Renal Cell Carcinoma
13:00-14:00	**Lunch**	
Chairpersons: **Ramesh Chandra, Shyam S Chauhan, Ashutosh Halder, S B Sharma**		
14:00-14:20	Md Ashraf Ganie SKIMS- Srinagar	Endocrine disruptors in PCOS
14:20-14:40	Sarita Gupta TMUB Gujrat	Modulation of mesenchymal stem cells for effective islet differentiation and enhanced therapeutic efficacy for diabetes
14:40-15:00	Ashok Kumar AIIMS-Bhopal	Single nucleotide polymorphisms in microRNA genes and their functional characterization in Oral Squamous Cell Carcinoma
15:00-15:20	Elena Pavlyukova KIRE-RAS, Moscow	New Physical Principles Technologies in Biomedicine
Chairpersons: **B S S Rao, Gopinath P, Kalpana Luthra, S Arulselvi**		
15:20-15:40	Rajesh C Shah NMC, Gujrat	Role of AI in Surgery
15:40-16:00	Sanjeev Lalwani AIIMS New Delhi	Reconstruction of the scene of occurrence: A teamwork in forensic investigation
16:00-16:20	Vijay Kumar Amity Noida	Network-based Drug Repurposing Approach against Human Diseases
16:20-16:40	Amresh Prakash Amity University- Gurgaon	Multistate Molecular Dynamics (MD) Simulation for Deciphering the Conformational Dynamics of Proteins Involve in Neurodegenerative Diseases
16:40-17:00	Somesh Gupta AIIMS, New Delhi	Role of AI in pattern recognition in medicine
17:00-17:10	Avinash Mishra (OP-10)	DermIntel: AI-powered Skin Assessment Web Tool and Android App
17:10-17:20	Vikas Kumar Bhardwaj (OP-11)	Use of Convolutional Neural Networks in Medical Image Classification, Segmentation, and Object Detection
17:20-17:30	Anubhuti (OP-12)	Pre- Artificial Intelligence (PAINT) checklist for Image Quality Assessment of medical imaging datasets: Development and validation
17:30-18:00	**Evening Tea**	
18:00-19:00	**Inaugural Function followed by Felicitation**	
19:00-21:00	**Gala Dinner**	

August 06th, 2024, Tuesday

Chairpersons: **Jyotdeep Kaur, Tulika Seth, Najmul Islam, Purva Mathur**

08:45-09:00	Deeptarup Biswas HMS, Boston (online)	Prediction of Meningioma Tumor Grades Using Integrated Omics and Machine Learning
09:00-09:15	Brijendra Kashyap BU, Jhansi (Online)	Microplastics impact on Human health
09:15-09:30	Rupinder Kaur Kanwar AIIMS-Bhopal	Translational Potential of Lactoferrin in Targeting Cancer drug Resistance
09:30-09:45	S N Singh DRDO Delhi	Metabolically healthy overweight: Findings from an observational study
09:45-10:00	Pradeep Srivastava TIFAC-New Delhi	Translated health engineering for Viksit Bharat
10:00-10:15	Syed Ibrahim Rizvi Allahabad University	Extending human life span: Reality or myth
10:15-10:30	Naveen Singh IIT-Delhi	From Selection to Sensing: One-Step Aptamer Selection and Continuous Stress Monitoring
10:30-10:40	Anil Kumar Tomar (OP-13)	Dysregulated sperm miRNAs impair sperm quality and early embryonic development in idiopathic recurrent pregnancy loss
10:40-10:50	Rachit Bhandari (OP-14)	Prevalence and risk factors for Cryptosporidium spp. infection in immunocompromised hosts: a neglected parasite with rise in menace and review of literature:
10:50-11:00	Abhishek Chatterjee (OP-15)	Excess proliferation of gastric cancer cells in an induced hyperglycemic environment: Alleviation by melatonin
11:00-11:30	**Morning Tea**	

Chairperson: **Seema Bhargava, Sadhana Sharma, Md Moinuddin, Lakshmy R Krishnan**

11:30-11:45	Hari Om Sharma GMC, Bhavnagar	Identification and reporting of errors in the medical labs and use of Quality Indicators as a preventive approach
11:45-12:00	Neeraj Jain MELAP- New Delhi	Quality Assurance in Clinical Laboratories
12:00-12:15	Aaliya Shah SKIMS- Srinagar	Errors in Laboratory: Whom to Blame
12:15-12:25	Rupali Bains (OP-16)	The Link Between Anti-Thyroid Peroxidase Antibodies and Key Metabolic Parameters in Hypothyroidism
12:25-12:35	Vishakha Hooda (OP-17)	Interaction of NK Cells and Macrophages Alters M2 Macrophages Function in Pemphigus Vulgaris: An Emerging Target for Novel Therapeutics
12:35-12:45	Nishtha Kapil (OP-18)	Enhancing Laboratory Medicine Practices: Our Experience with Pre- and Post-Analytical Quality Indicators
12:45-12:55	Priyanka Singh (OP-19)	Mangiferin loaded chitosan coated magnetite nanoparticles targeting folate receptors (MGF-ChMNPs-FA)
12:55-13:05	Sudhahar Tamizhan (OP-20)	Ganglioside antibody positivity and its clinical implications in Guillain Barre Syndrome: An Analytical Study
13:05-13:45	**Lunch**	

	Chairperson: **Raj Kumar Yadav, Savita Yadav, Rupesh Srivastava, Bhoopendra Singh**	
13:45-14:05	J Francis Borgio, KSA (Online)	Biomarkers of autism spectrum disorder by integrating transcriptome and exome
14:05-14:25	Videha Sharma UM, Manchester (Online)	Relevance of Pharmacogenomics in personalized medicine
14:30-14:45	Wahid Ali KGMU Lucknow	Panel of Circulatory MicroRNA Expression Signature as Diagnostic Marker for Oropharyngeal Squamous Cell Carcinoma
14:45-15:00	Laishram R Singh ACBR, Delhi	The gut metabolite Trimethylamine N-oxide inhibits the folding of carbonic anhydrase and induces cell cycle arrest
15:00-15:15	Naveen Kumar Gautam SGPGI, Lucknow	Overexpression of Hsp27 protects cadmium-induced nephrotoxicity in Drosophila melanogaster
15:15-15:30	Gopinath Packirisamy IIT Roorkee	Biomimicry to translational nano bioengineering: Concept & applications
	Chairperson: **Alpana Sharma, Hari Om Sharma, Sudip K Datta, Harsh Vardhan Singh**	
15:30-15:45	Shilpa Bhardwaj IHBAS- New Delhi	Evaluating the Triglyceride-Glucose Index as a Predictor of Acute Ischemic Stroke Risk in Diabetic Patients
15:45-16:00	Shandar Ahmad JNU, New Delhi	Big data and data-driven methods for biomedical predictive modelling
16:00-16:15	Anandakumar Pandi AIIMS Deoghar	Carvacrol attenuates Isoproterenol induced experimental cardiotoxicity
16:15-16:30	Sukhes Mukherjee AIIMS – Bhopal	Role of Novel Cobalt (III)-based bio-reductive pro-drug modeling for hypoxic tumor microenvironment and HIFs-controlled signature genes in breast cancer
16:30-16:45	Chandra P Prasad AIIMS New Delhi	The potential of Lactate metabolism targeting in Triple Negative Breast Cancer (TNBC) treatment
16:45-17:00	Pramod Gautam AIIMS New Delhi	Tumor-derived HSP70-docetaxel conjugate: a new peptide drug conjugate for cancer therapy
17:00-17:15	Alka Kumari AIIMS-Rishikesh	Biomarkers and molecular signature of celiac disease
17:15-17:30	Gothwal PP CFTRI-Lucknow	Exploring the Bioactive(s) Isolated Endophytes from Edible Plants having Anti-mycobacterial Activity
17:30-18:00	**Valedictory and Award Function**	
	High Tea	

Poster Presentation Schedule

05th August 2024 (11:30-01:00)

S.No.	Name	Affiliation	Abstract title
P001	Sameer Kumar	RIMS, Ranchi	Relationship of Ferritin, Vitamin D and Vitamin B12 Level in Patients with Ophthalmic Pterygium at A Tertiary Health Care Centre in Ranchi
P002	Medha	AIIMS, New Delhi	Association between serum 25-hydroxy vitamin D and hepatic progression in MASLD patients
P003	Snehal Sawant	VMMC, New Delhi	Impact of Lipid Profile on Breast Carcinoma Risk Among North Indian Women
P004	Astha Goyal	SGT University, Gurugram	Status of oxidative stress biomarkers in different clinical severities of Acne Vulgaris
P005	Faiza Ismail	JNMC, Aligarh	Resveratrol and Ascorbic Acid: Investigating the Inflammatory Cytokine alterations in Osteoporosis and Revealing their Anti-Inflammatory Capabilities
P006	Neha Shukla	SGPGI, Lucknow	Exploring the prognostic significance of IL10 variants in Diabetic nephropathy in the North Indian population
P007	Anand Kumar	AIIMS, New Delhi	A study of peripheral blood in neuronal markers SNTF, BDNF, S-100B, NSE and UCHL-1 during early hours of injury in mild Traumatic Brain Injury (mTBI) patients
P008	Rajeshwari R	AIIMS, New Delhi	Histopathological Features of Blast Lung Injury, A Rare Case Report
P009	Alakto Choudhury	Amity University, Noida	Retrieval Augmented Language Models for IVF Counselling: An Indian Perspective
P010	Ginni Bharti	AIIMS, New Delhi	Seropositivity of torch infections: laboratory-based retrospective study
P011	Deepika Pal	MIET, Meerut	Exploring Indigenous Medicinal Plants for Effective Acaricidal Activity against Rhipicephalus Microplus: An In-Vitro Study
P012	Abhishek Satapathy	AIIMS, New Delhi	Rare occurrence of post-trauma hepatic oxalate deposition and necrosis- A case report
P013	Shamima Akhtar	AIIMS, New Delhi	Cell-free Sialin mRNA: A novel early biomarker for endothelial dysfunction in dyslipidemic asymptomatic individuals
P014	Mahvish Mehdi	ERA University-Lucknow	Association of ACE I/D Gene Polymorphism with Susceptibility to Dilated Cardiomyopathy
P015	Shraddha Kapoor	AIIMS, New Delhi	Investigating the anti-cancer therapeutic effect of a combination of Niflumic acid and Lenalidomide against Multiple myeloma cells
P016	Shubin Abdul Shukur	AIIMS, Bhopal	Analysing the association of surviving gene polymorphism and its protein levels in blood and stool in Colorectal cancer

S.No.	Name	Affiliation	Abstract title
P017	Venencia Albert	AIIMS, New Delhi	A Preliminary Study to Identify Circulating miRNAs in Osteoporotic Trauma Fracture Patients as Potential Biomarkers and Therapeutic Targets
P018	Nivedita Vats	AIIMS, New Delhi	Anti-tumor potential of Sesamolin in Ovarian Cancer
P019	Tanveer Ahamad	Era University, Lucknow	Computational investigation of isolated compounds from Dillenia indica as potential therapeutics for triple-negative breast cancer
P020	Rewa Malhotra	AIIMS, New Delhi	Comparative analysis of the role of microbiome in oral potentially malignant disorders and oral cancer: A systematic review
P021	Amrita	AIIMS, Bhopal	Estimation of dopamine in the human brain tissue: post-mortem studies in a group of suicides and in a control group
P022	Meenakshi Sharma	AIIMS, New Delhi	An assessment of dietary evaluation and antioxidant vitamin level in patients with Metabolic Syndrome
P023	Sarmistha Mazumder	IIT, Jodhpur	"Ghost or Not?"- A Comparative Study of Different Sized Erythrocyte-Based Drug Delivery Systems
P024	Bodhana Dhole	AIIMS, New Delhi	Electromagnetic Field (EMF) Alters Leydig Cell Steroidogenesis Through Modification of Steroidogenic
P025	Akanksha Priya	AIIMS, New Delhi	Role of Machine learning models in assessing NAFLD fibrosis and cirrhosis in comparison to the non-invasive scores and biomarkers in Indian Patients
P026	Devendra Verma	AIIMS, New Delhi	The Role of Multiple and Subsequent Internal Audits in Reducing Non-Conformities and Enhancing Laboratory Preparedness for NABL Accreditation
P027	Abhishek Chaudhary	NSUT, Delhi	Evolving COVID-19 research and Machine Learning: A Performance impact analysis
P028	Rupinder Kaur	AIIMS, New Delhi	Comparison of micro-RNA cargo of circulating extracellular vesicles of pancreatic cancer patients and healthy controls
P029	K David Raja	AIIMS, New Delhi	Unveiling the immunoregulatory role of B cells and its subtypes in urothelial carcinoma of the bladder
P030	Arkadipta Mukherjee	AIIMS, New Delhi	The Impact of Monitoring Quality Indicators on Enhancing Laboratory Preparedness for NABL Accreditation
P031	Tanuj Gupta	SGTMC, Gurugram	Prevalence of Influenza Viruses in Urban and Rural Population with Acute Respiratory Infection in Haryana.
P032	Divya	Probgen Biotech India Pvt. Ltd.	Virological Tools for Diagnosis and Management of Viral Infections
P033	Komal Sagar	AIIMS, New Delhi	Impaired homing with altered phenotype of regulatory cells (MDSCs & T-regs) augments atherosclerosis

P034	Jaya Tak	AIIMS, New Delhi	miRNA profiling in exhaled breath condensate of pulmonary TB patients and healthy controls: A pilot study
P035	Harsh Bhakhri	AIIMS, New Delhi	Evaluation of the Neutralizing Antibody Response Elicited Against SARS-CoV2 Variants in the Vaccinees (COVAXIN and COVISHIELD)
P036	Anjli Gaur	AIIMS, New Delhi	Development of One Pot CRISPR/Cas12a based assay for detection of HIV-1 Indian subtype-C infections