



# Advances in Cardiovascular Medicine and Research-2023 (ACMR-2023)

February 16-18, 2023

Bhargava Auditorium, Postgraduate Institute of Medical Education and Research, Chandigarh-160012

## SCIENTIFIC PROGRAMME



### DAY – 1 Thursday, 16<sup>th</sup> FEBRUARY 2023

<b>9:30 AM - 10:00 AM</b>	<b>Registration</b>	
<b>10:00 AM- 01:00 PM</b>	<b>Workshop for Cardiologists: LV lead placement in heart failure (Venue: Lecture Theatre-1) Sponsored by: Abbott Faculties: Saurabh Mehrotra; Inderjeet Monga</b>	<b>Workshop for Basic researchers/Pathologists Light and Confocal Microscopy: (Venue: Lecture Theatre, 4th Floor, Research Block A) In collaboration with DSS Imagetech Pvt. Ltd. Faculties: Uma Nahar, Raja Sebastian, Anupam Mittal</b>
<b>01:00 PM- 02:00 PM</b>	<b>WORKING LUNCH (Zakir Hall)</b>	
<b>Venue: Bhargava Auditorium</b>		
<b>02:00 PM- 02:40 PM</b>	<b>Registration</b>	
<b>2:40 PM- 2:50 PM</b>	<b>Introduction: Cardiovascular Research Group</b>	<b>Anupam Mittal, PGIMER, Chandigarh</b>

02:50 PM- 03:40 PM	<b>SCIENTIFIC SESSION- I</b> <b>Epigenetics of Cardiovascular Diseases</b>	<b>Chairpersons: Rajat Sandhir; Banashree Mandal; Dhandapany Perundurair</b>
	Histone methyltransferases regulate cardiac physiology	Sarah Franklin, Utah, USA
	NFAT-regulated long non-coding RNA Neat-1 promotes cardiac hypertrophy	Regalla Kumarswamy, CCMB, Hyderabad
	Extracellular Vesicle in the Regulation of Cardiovascular diseases	Suresh K Verma, UAB, USA
03:40 PM- 04:30 PM	<b>SCIENTIFIC SESSION- II</b> <b>Genetics and Genomics of Cardiovascular Diseases</b>	<b>Chairpersons: GD Puri; Ajay Bahl</b>
	Cardio genomics, stem cells and precision medicine	Dhandapany Perundurair, inStem, Bengaluru
	Ayurgenomics: Novel integrative approach of Ayurveda and genomics for preventive and personalized approach in medicine	Bhavana Prasher, IGIB, New Delhi
	Right ventricle-no longer forgotten	Manphool Singhal, PGIMER, Chandigarh
4:30 PM onwards	<b>Tea (Zakir Hall)</b>	
4:50 PM- 6:30 PM	<b>NS Dhalla and Suresh K Tyagi Award for Basic Research Sciences</b>	<b>Chairpersons: Harlokesch Yadav, Gaurav Sharma</b>
NS-1	Notch regulated lncRNA TUG1 is involved in Aortic Aneurysm	Abishek R Bharadwaj, CCMB, Hyderabad
NS-2	Sirt6 activation by ST-2 protects neonatal cardiomyocytes against insulin resistance	Anchal Arora, AIIMS, Bathinda, Punjab
NS-3	Elastomeric antioxidant cardioprotective patches: A paradigm bioengineered intervention	Ankita Das, IIT Kanpur, UP

	towards tissue regeneration after myocardial infarction	
NS-4	Deoxyelephantopin regresses cardiac fibrosis in pressure overload-induced left ventricular hypertrophy	Anirban Banik, University of Calcutta, Kolkata
NS-5	Anti-obesity effect of $\gamma$ terpinene and the plausible role of Wnt- $\beta$ catenin Canonical Pathway	Lingesh Allakonda, NIPER, Guwahati, Assam
NS-6	Pharmacological modulation of selective CYP450 in Cardiometabolic syndrome	Navdha Vyas, Anand Pharmacy, Gujarat
NS-7	Transcriptional regulation of the HMG-CoA reductase gene under basal and hypoxic conditions	Poovitha Sundar, IIT Madras, Chennai
NS-8	Modeling patient specific iPSC-cardiomyocyte exhibits redox perturbation in TTL induced cardiomyopathy	Pratul K Jain, inStem, Bengaluru
NS-9	Calcium Regulated Long Non-coding RNA NEAT1 is Involved in Cardiac Hypertrophy	Priyanka Pant, CCMB, Hyderabad
NS-10	Analysis of herbal components in the treatment of diabetes associated with non-alcoholic fatty liver disease using network pharmacology	Priyanka Sharma, DPSRU, New Delhi
NS-11	Role of enhancers in impaired diabetic wound healing	Riya Madan, IISER Mohali, Punjab
NS-12	Beneficial effect of vitamin D in monocrotaline induced pulmonary arterial hypertension in rats by restoration of balance between ACE and ACE-2	Sadia Shah, AIIMS, New Delhi
NS-13	Molecular regulation of Lysyl Oxidase and its implications in cardiac wall stiffening post myocardial injury	Sruthi Radhakrishnan, SCTIMST, Trivandrum

**DAY – 2**  
**FRIDAY, 17<sup>th</sup> FEBRUARY 2023**

<b>08:30 AM - 09:00 AM</b>	<b>Registration</b>	
<b>09:00 AM - 09:35 AM</b>	<b>SCIENTIFIC SESSION- II</b> <b>Genetics and Genomics of Cardiovascular Diseases</b>	<b>Chairpersons: Madhu Khullar; Uma Nahar</b>

	<b>Host genetic variations and susceptibility to rheumatic heart disease</b>	K. Thangaraj, CCFD, Hyderabad
	<b>Sudden cardiac death: Important message for genetic testing and family screening</b>	Mary Sheppard, SGUL, UK
<b>09:35 AM-10:00 AM</b>	<b>Planery Talk: Mechanisms for the Loss of Adrenergic Support in Heart Failure</b> NS Dhalla, Honorary Life President, IACS-Distinguished Professor, Centre for Advancement of Medicine, Manitoba, Canada	<b>Chairpersons: RK Goyal; CC Kartha</b>
<b>10:00 AM - 10:20 AM</b>	<b>Tea (Zakir Hall)</b>	
<b>10:20 AM - 11:25 AM</b>	<b>SCIENTIFIC SESSION- III</b> <b>Clinical Interventions in Cardiovascular Medicine</b>	<b>Chairpersons: Jeet Ram Kashyap; Vivek Chaturvedi; Devinder Bisht</b>
	<b>Approach to Ventricular premature complexes</b>	C Narasimhan, AIG Hospitals, Hyderabad <b>(Virtual)</b>
	<b>Novel Treatments in Non-Obstructive Hypertrophic Cardiomyopathy</b>	Muthiah Subramanian, AIG Hospitals, Hyderabad <b>(Virtual)</b>
	<b>VT-Approach to Management</b>	Nitish Naik, AIIMS, New Delhi
	<b>Incidence and determinants of recovered LVEF and recurrent dysfunction in patients with HF</b>	PC Negi, IGMC, Shimla
<b>11:25 AM-11:35 AM</b>	<b>Newer Technologies in heart failure devices</b>	Rajat Sharma, Fortis, Mohali
<b>11:35 AM-11:45 AM</b>	<b>Management of DM with NYHA III HFrEF</b>	Sandeep Bansal, Safdarjung Hospital, Delhi

<b>11:45 AM - 12:15 PM</b>	<p align="center"><b>PROF. PL WAHI ORATION</b>  <b>CAD in South Asians: Role of Genetics  and Environment</b>  Gurpreet S Wander  Hero DMC Heart Institute, Ludhiana</p>	<p align="center"><b>Chairpersons: NK Ganguly, RP Sapru</b></p>
--------------------------------	--	---

<b>12:15 PM - 1:05 PM</b>	<p align="center"><b>SCIENTIFIC SESSION- IV</b>  <b>Reactive Oxygen Species in  Cardiovascular Disease</b></p>	<p align="center"><b>Chairpersons: Shyamal Goswami;  Veena Dhawan; Sachin Mahajan</b></p>
	<p align="center"><b>Vitamin C provides cardio-protection by  reducing oxidative/nitrosative stresses  and inflammation in Dox-induced  cardiomyopathy</b></p>	<p align="center">Pawan Singal, University of Manitoba,  Canada</p>
	<p align="center"><b>ROS-NOS balance dictates  cardiomyocyte cell fate: our study  towards improvement of cardiac  pathophysiology</b></p>	<p align="center">Sagartirtha Sarkar, University of Calcutta,  Kolkata</p>
	<p align="center"><b>Cardiac Fibrosis: A sirtuin way of  regulation</b></p>	<p align="center">Ravi Sundaresan, IISC, Bengaluru</p>
<b>1:05 PM- 2:00 PM</b>	<p align="center"><b>e-Poster Viewing and Lunch (Zakir Hall)</b></p>	
<b>2:00 PM 2:48 PM</b>	<p align="center"><b>SCIENTIFIC SESSION-V</b>  <b>New technologies for advancement of  clinical research</b></p>	<p align="center"><b>Chairpersons: Shyam K Singh, S  Reddy; Bhupender Sihag</b></p>
	<p align="center"><b>Pathways in Heart Failure</b></p>	<p align="center">Sandeep Seth, AIIMS, New Delhi</p>
	<p align="center"><b>Creating a conscious future</b></p>	<p align="center">Mohit Gupta, GB Pant Hospital, New Delhi</p>
	<p align="center"><b>MASTER DAPT-Clinical Insight &amp;  Application</b></p>	<p align="center">Rahul Parakh, Terumo Medical Affairs</p>

3:00 PM - 4:00 PM	<b>Inauguration Ceremony: ACMR-2023 Bhargava Auditorium</b>	<b>Chief Guest: Dr. Rajiv Bahl, DG-ICMR, Secretary, DHR, New Delhi Guest of Honour: Dr. Vivek Lal, Director, PGIMER, Chandigarh</b>
4:00 PM- 4:30 PM	<b>Tea (Zakir Hall)</b>	
4:30 PM- 5:00 PM	<b>PROF. RAMESH K GOYAL ORATION Ventricular Assist Devices &amp; Artificial Heart: Current Status Rajiv Narang, AIIMS, New Delhi</b>	<b>Chairpersons: HK Bali; Bhupesh Kumar; Rajesh Vijayvergiya</b>
5:00 PM- 5:50 PM	<b>N K Ganguly Award for Clinical Research</b>	<b>Chairpersons: Mukul Bhatnagar; Neelam Dahiya; Dinkar Bhasin</b>
NK-1	<b>Hypertrophic Cardiomyopathy in Indian Scenario and the need of family Screening with Whole Exome Sequencing</b>	Ansh Goswami, AIIMS, New Delhi
NK-2	<b>Maternal hyperglycemia during pregnancy and its effects on maternal blood, cord blood and placenta</b>	Aswathy S, RGCB, Trivandrum
NK-3	<b>Transitional Changes of Endothelial-to-Mesenchymal Cells in the Myocardium of Diabetic Subjects with and without Cardiomyopathy</b>	Chandni, PGIMER, Chandigarh
NK-4	<b>Oxidative stress response in Prakriti stratified stable patients of coronary artery disease (CAD)</b>	Pamila Dua, AIIMS, New Delhi
NK-5	<b>Elderly cardiomyopathy associated NRAP variant shows distinct interaction with KLHL41 and <math>\alpha</math>-actinin</b>	Prasanth Chimata, inStem, New Delhi
NK-6	<b>Identification of prognostic markers for acute heart failure using SWATH-MS based plasma proteomics</b>	Mamta Rathore, IGIB, New Delhi
06:00 - 06:30 PM	<b>PROF. M L BHATIA ORATION Bringing down cholesterol levels in the entire community</b>	<b>Chairpersons: KK Talwar; SK Maulik</b>

	Jagat Narula, Executive Vice President & Chief Academic Officer K. Lance Gould Distinguished University Professor University of Texas Health, Houston	
<b>06:30 - 06:45 PM</b>	<b>IACS Awards</b>	
<b>07:45 PM onwards</b>	<b>BANQUET DINNER (Hyatt Centric Lawns)</b>	

**DAY – 3**  
**SATURDAY, 18<sup>th</sup> FEBRUARY 2023**

<b>08:30 AM- 8:45 AM</b>	<b>Registration</b>	
<b>8:45 AM- 9:10 AM</b>	<b>PROF. HARPAL BUTTAR ORATION</b> Strategies for mitigating diabetes and heart disease by modulating Namp1 Srinivas Tipparaju, University of South Florida, USA (Virtual)	<b>Chairpersons: Tejal Gandhi; Ankur Gupta</b>
<b>09:10 AM - 09:35 AM</b>	<b>PROF. MANJIT SINGH ORATION</b> Chromogranin A: a key regulator of cardiometabolic diseases Nitish Mahapatra, IIT, Chennai	<b>Chairpersons: Madhu Khullar; Shantanu Sengupta</b>
<b>09:35 AM - 11:10 AM</b>	<b>SCIENTIFIC SESSION-VI</b> Molecular and Electrophysiological signaling in Cardiovascular Diseases	<b>Chairpersons: Sanjiv Dhingra, Suraj Khanal; Basant Kumar</b>

	<b>G-protein-mediated cellular signaling in heart failure</b>	Mikito Takefuji, Nagoya University Hospital, Japan ( <b>Virtual</b> )
	<b>Reinvigorating the BRS therapy with Next Generation thin strut BRS</b>	Praveer Aggarwal, Fortis Escorts
	<b>LAA appendage closure-current concepts</b>	Ajay J Swamy, KIMS Hospital, Bengaluru
	<b>Effect of citrus alkaloids on cardiac potassium currents - possible proarrhythmic implications</b>	Andras Varro, University of Szeged, Hungary
	<b>Electrophysiological remodeling in a large animal model of athlete's heart</b>	Istan Baczko, University of Szeged, Hungary
	<b>Discoidin Domain Receptor 2 as a target for cardiac fibrosis therapy</b>	K Shivakumar, University of Kerala, Trivandrum
<b>11:10 AM-11:30 AM</b>	<b>TEA BREAK (ZAKIR HALL)</b>	
<b>11:30 AM-12:05 PM</b>	<b>Torrent Mid-Career Award</b> <b>Yoga heart connection- emerging evidence</b> Gautam Sharma, AIIMS, New Delhi <b>Systems of care of STEMI in India</b> S Ramakrishnan, AIIMS, New Delhi	<b>Chairpersons: Manoj Kumar Rohit; Harkant Singh; Saurabh Mehrotra</b>
<b>12:05 PM - 1:25 PM</b>	<b>SCIENTIFIC SESSION-VII:</b> <b>New therapeutic approaches for cardiovascular diseases</b>	<b>Chairpersons: UP Singh; Anand Mishra; Suresh K Verma</b>
	<b>Using dietary flaxseed to modulate cardiovascular disease</b>	Grant Pierce, University of Manitoba, Canada
	<b>Rejuvenation of “Broken Heart” with Smart Exosomes and Intelligent Hydrogels</b>	Devendra K Agrawal, Western University of Health Sciences, California, USA



	<b>Galectin-3 and Cardiometabolic diseases</b>	Manoj Barthwal, CDRI, Lucknow, UP
	<b>Metabolic modulators on Heart Failure</b>	Puneet Verma, Ace Hospitals, Mohali
	<b>ICMR-MDMS-Nurturing Med-tech Ecosystem for Catalyzing Innovation to Impact</b>	Suchita Markan, ICMR, New Delhi
<b>1:25 PM – 2:15 PM</b>	<b>Poster Viewing and Lunch (Zakir Hall)</b>	
<b>2:15 PM- 2:45 PM</b>	<b>PROF. RAKESH KUKREJA ORATION</b> <b>Cardiac Stem Cell Therapy: Still a Long Road to Go</b> Sanjiv Dhingra, St. Boniface Hospital Research Centre, Winnipeg, Canada	<b>Chairpersons: Sunil K Arora; Yashpaul Sharma; PK Singal</b>
<b>2:45 PM – 3:35 PM</b>	<b>SCIENTIFIC SESSION-VIII:</b> <b>Artificial Intelligence in cardiovascular sciences</b>	<b>Chairpersons: KK Talwar; Meenu Singh; Biman Saikia</b>
	<b>Artificial Intelligence and Big Data Based Predictive Modeling in Cardiovascular Diseases</b>	Kumardeep Chaudhary, IGIB, New Delhi
	<b>Making AI trustworthy-Can Doctors and Engineers converge</b>	Divya Bansal, PEC, Chandigarh
	<b>Artificial Intelligence in Cardiology: Today and tomorrow</b>	Sudarshan Iyengar, IIT Ropar, Punjab
<b>3:35 PM- 4:25 PM</b>	<b>Riya and Paul Ganguly Symposium-IACS</b>	<b>Chairpersons: Bishav Mohan; Mukesh Nandave, Tarun Kumar</b>
	<b>Role of Protease Activated Receptors (PARs) in Diabetes-induced Cardiac</b>	Shyam S Sharma, NIPER, Mohali, Punjab

	<b>Dysfunctions using Pharmacological Interventions</b>	
	<b>Epigenetic regulators and their translational potential in vascular complications of diabetes</b>	Sadhan Das, IISER, Mohali
	<b>Unraveling the ambiguities of triglyceride transfer through CETP: A detailed atomistic mechanistic insight</b>	Arjun Ray, IIITD, New Delhi
<b>4:25 PM-5:30 PM</b>	<b>SCIENTIFIC SESSION-IX: Vascular disease Biology</b>	<b>Chairpersons: DK Agrawal; BD Radotra; Ashish Kakkar</b>
	<b>Identifying lipid signatures for Coronary Artery Disease</b>	Shantanu Sengupta, IGIB, New Delhi
	<b>Perturbed post-translational modification (PTM) network atlas of Collagen 1 deposited during stent-induced neo-intima formation</b>	Trayambak Basak, IIT, Mandi, HP
	<b>Understanding the pathophysiological implications of dysregulated cholesterol homeostasis in Athero-Inflammation</b>	Arun Bandyopadhyay, IICB, Kolkata
	<b>Pharmaco-epigenetic effects on hypertension: results from a community-based study</b>	Suniti Yadav, University of Delhi
<b>05:30 PM-05:45 PM</b>	<b>Madhu Khullar Women Scientist Early Career Award (12+3 mins)</b>	<b>Chairpersons: Aruna Rakha Arora; Maryada Sharma</b>
<b>05:45 PM – onwards</b>	<b>VALIDECTORY FOLLOWED BY HI-TEA</b>	