

# THE HEART FAILURE CONFLUX

Virtual Confluence of  
Scientists and Clinicians Caring Heart Failure

February 5<sup>th</sup> – 7<sup>th</sup> 2021

## DAY 1

Molecular Biology  
tools for  
Cardiologists

## DAY 2

Clinical  
Challenges in  
Heart Failure

## DAY 3

Brainstorming  
session  
with Experts

Prize  
₹10,000

Invited Abstract Session

Deadline for submission - 31<sup>st</sup> Jan 2021

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ICMR Centre for  
Advanced Research and  
Excellence in Heart Failure  
- SCTIMST Trivandrum



Sree Chitra Tirunal  
Institute for Medical Sciences  
& Technology, Trivandrum



HEART FAILURE  
ASSOCIATION OF INDIA  
*Improving Heart Failure Care*



In Association with  
International Academy of  
Cardiovascular Sciences  
Indian Section



icmr

Supported by  
Indian Council of Medical Research

Dear Colleagues,

Interactions between basic and clinical researchers should be more like a 'virtuous cycle' of bench to bedside and back again. With the advances in genetics, molecular diagnostics and therapeutics, it is now essential for basic and clinical scientists to collaborate to improve patient outcomes. It is also possible to build upon each other's work to explore novel disease mechanisms, therapeutic avenues and diagnostics.

With this background, Centre for Advanced Research and Excellence in Heart failure - (CARE-HF) established under ICMR at the SCTIMST, Trivandrum, is organising a confluence of heart failure specialists and basic scientists. This meeting is being conducted in association with the Heart Failure Association of India and International Academy of Cardiovascular Sciences, and is supported by the ICMR.

## Organizing Team



**Patron**  
**Prof. Dr. K Jayakumar**  
Director SCTIMST



**Org Chairman**  
**Prof. Dr. CC Kartha**  
President, IACS India



**Org Secretary**  
**Prof. Dr. Harikrishnan S**  
President, HFAI

### SCTIMST Team

Dr. Ajitkumar VK  
Dr. Anoop Kumar T  
Dr. Baiju S Dharan  
Dr. Debasish Gupta  
Dr. Harikrishna Varma P.R  
Dr. Jeemon P  
Dr. Kavita Raja  
Dr. KK Narayanan Namboodiri  
Dr. Krishnamoorthy KM  
Dr. Madhusoodanan UK

Dr. Manoj G  
Dr. Muraleedharan C. V  
Dr. Nagesh D. S  
Dr. Neethu Mohan  
Dr. Sanjay G  
Dr. Sarath S. Nair  
Dr. Shivanesan P  
Dr. Vivek V Pillai  
Dr. Adrija Roy  
Dr. Linda Koshy  
Dr. Reethu S

### ICMR

Dr. Meenakshi Sharma  
Dr. R.S Dhaliwal

### HFAI Team

Dr. Abraham Oommen  
Dr. Uday Jadhav  
Dr. Bagirath Raghuraman  
Dr. Chopra VK

### IACS Team

Dr. Soorya Ramachandran  
Dr. Srinivas G

## Call for Abstracts

Abstracts are invited for a competitive session on Day 1, 05-02-2021 from areas of basic or translational research related to Heart Failure. Best paper will be awarded **Rs. 10,000** and certificate from Heart Failure Association. **Abstracts in IMRAD format with one Table/Figure and not exceeding 500 words may be uploaded to hfaioffice@gmail.com. Deadline for submission - 31<sup>st</sup> January 2021**

### Contact us

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### TO REGISTER



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**Websites :** [heartfailure.org.in](http://heartfailure.org.in) | [www.hfai.co.in](http://www.hfai.co.in)

## Keynote Address / Messages

**DAY 1**  
5<sup>th</sup> Feb 2021



**Prof. Chandrabhas Narayana**  
Director  
Rajiv Gandhi Centre  
for Biotechnology,  
Thiruvananthapuram

**DAY 2**  
6<sup>th</sup> Feb 2021



**Prof. Balram Bhargava**  
Director General  
Indian Council of  
Medical Research,  
New Delhi

**DAY 3**  
7<sup>th</sup> Feb 2021



**Prof. Ashutosh Sharma**  
Secretary  
Department of  
Science & Technology

## INTERNATIONAL FACULTY



**Sakthivel Sadayappan**  
University of Cincinnati, USA



**Kiran Musunuru**  
Perelman School of Medicine  
University of Pennsylvania, USA



**Anureet Kaur Shah**  
California State University,  
USA



**Sanjiv Dhingra**  
University of  
Manitoba, Canada

## NATIONAL FACULTY

**Abdul Jaleel**, RGCB, Trivandrum  
**Ajay Bahl**, PGIMER, Chandigarh  
**Ajit Kumar VK**, SCTIMST, Trivandrum  
**C Adhithan**, JIPMER, Puducherry  
**D. Prabhakaran**, PHFI, New Delhi  
**Deepthi Menon**, Amrita Institute, Kochi  
**Harikrishna Varma**, SCTIMST, Trivandrum  
**Hisham Ahamed**, Amrita Institute, Kochi  
**Jeemon P**, SCTIMST, Trivandrum  
**K Shivakumar**, SCTIMST  
**K Venugopal**,  
Pushpagiri Medical College Hospital, Thiruvalla  
**Meenakshi Sharma**, ICMR  
**Neethu Mohan**, SCTIMST, Trivandrum  
**Nitish Mahapatra**, IIT, Madras  
**P Dhandapany**, InStem, Bangalore  
**Qadar Pasha**, Emeritus Scientist, ICMR

**R Krishna Kumar**, Amrita Institute, Kochi  
**Ravi Nagalingam Sundaresan**, IISC, Bangalore  
**Regalla Kumaraswamy**, CCMB, Hyderabad  
**Renu John**, IIT, Hyderabad  
**RS Dhaliwal**, ICMR, New Delhi  
**S Sumi**, RGCB, Trivandrum  
**Sandeep Seth**, AIIMS, New Delhi  
**Sanjay Banerjee**, NIPER, Assam  
**Sanjay G**, SCTIMST, Trivandrum  
**Shashi Kumar Gupta**, CDRI, Lucknow  
**Sheela Namboothiri**, Amrita Institute, Kochi  
**Soumyo Mukherji**, IIT-Bombay  
**Surya Ramachandran**, RGCB, Trivandrum  
**Vibin Ramakrishnan**, IIT, Guwahati  
**Vinod Scaria**, IGIB, New Delhi  
**VK Chopra**, Max Super Speciality Hospital, New Delhi

## CONFERENCE SECRETARIAT

**Ms Madhuma M,**  
**Mr Lakshmikanth LR**

**Ms Divya Prasad**  
**Mr Vineeth CP**

**Mr Kochumoni**  
**Mr Vysakh,**

**DAY 1****February 5th Friday 2021****Moderators : Prof Dr CC Kartha & Prof Dr Harikrishnan S.**

<b>TIME</b>	<b>TOPIC</b>	<b>SPEAKER</b>
5:00PM - 6:00 PM	Invited Abstracts session	
6:00PM - 6:15 PM	Keynote address	<b>Prof Dr Chandrabhas Narayana,</b> Director, RGCB, Trivandrum
<b>SESSION 1</b>		
6:15PM - 6:27 PM	Transcriptomics in Heart Failure	<b>Dr Regalla Kumaraswamy,</b> CCMB, Hyderabad
6:30PM - 6:42 PM	Metabolomics: Principles and Prospects for studying disease mechanisms and identifying biomarkers	<b>Dr Abdul Jaleel,</b> RGCB, Trivandrum
6:45PM - 6:57 PM	Micro RNA based detection and therapies for Heart Failure	<b>Dr Shashi Kumar Gupta,</b> CDRI, Lucknow
7:00PM - 7:12 PM	Approaches to decipher mechanisms and therapeutic targets in Heart Failure: Sirtuins as an example	<b>Dr Ravi Nagalingam Sundaresan,</b> Indian Institute of Science, Bangalore
7:15PM - 7:27 PM	Identifying genetic susceptibility for Heart Failure	<b>Dr S Sumi,</b> RGCB, Trivandrum
7:30PM - 7:40 PM	Recap & Conclusions	<b>Dr. Sanjay G &amp; Dr. Jeemon P</b>
<b>SESSION 2</b>		
7:45PM - 7:57PM	Targeting cardiac fibroblasts to mend the breaking heart	<b>Prof. K Shivakumar,</b> SCTIMST
8:00PM - 8:12PM	Animal Models in Heart Failure	<b>Dr. Sakthivel Sadayappan,</b> University of Cincinnati, USA
8:15PM - 8:27PM	Systems biology application for cardiovascular drug discovery	<b>Dr. Vibin Ramakrishnan,</b> IIT, Guwahati
8:30PM - 8:42PM	Population genetics for discovery of disease risk and drug targets	<b>Dr. Vinod Scaria,</b> IGIB, New Delhi
8:45PM - 8:57PM	Technological avenues for development of cardiovascular devices	<b>Dr. Deepthi Menon,</b> Amrita Institute of Medicine, Kochi
9:00PM - 9:10PM	Recap & Conclusions	<b>Dr. Ajit Kumar VK &amp; Dr. Harikrishna Varma</b>

**\*Please note that each talk consists of 12 minutes followed by 3 minutes of Q&A.**

**Time shown refers to IST (Indian Standard Time)**

**DAY 2****February 6th Saturday 2021****Moderators : Dr Sandeep Seth & Dr Ajay Bahl**

<b>TIME</b>	<b>TOPIC</b>	<b>SPEAKER</b>
6:00PM - 6:05PM	Welcome address	<b>Prof. Dr. K Jayakumar,</b> Director, SCTIMST
6:05PM- 6:15PM	Keynote address	<b>Prof. Dr. Balram Bhargava,</b> Director General, ICMR, New Delhi
<b>SESSION 1</b>		
6:15PM - 6:27PM	Signaling from hypertrophy to failure: Apoptosis, Necrosis and Fibrosis – What cardiologists should understand.	<b>Dr. Anureet Kaur,</b> California State University,USA
6:30PM - 6:42PM	Genetics of cardiomyopathies	<b>Dr. P Dhandapany,</b> Institute for Stem Cell Science and Regenerative Medicine, Bangalore
6:45PM - 6:57PM	Cardiac regeneration – Hopes and Hypes	<b>Dr. Sanjiv Dhingra</b> University of Manitoba
7:00PM - 7:12PM	Chemotherapy induced Heart Failure – Metabolic and genetic pathways	<b>Dr. Ajay Bahl,</b> PGIMER, Chandigarh
7:15PM - 7:27PM	Pharmacogenomics & Heart Failure	<b>Dr. C. Adhithan,</b> JIPMER, Puducherry
7:30PM - 7:40PM	Recap & Conclusions	<b>Dr. Qadar Pasha &amp;</b> <b>Dr. Neethu Mohan</b>
<b>SESSION 2</b>		
7:45PM - 7:57PM	Gene editing in Heart Failure	<b>Dr. Kiran Musunuru,</b> University of Pennsylvania, USA
8:00PM - 8:12PM	COVID-19 and HF - Immune Mechanisms	<b>Dr. Sandeep Seth,</b> AIIMS, New Delhi
8:15PM - 8:27PM	Genetic counselling in Heart Failure – What a clinician should know	<b>Dr. Sheela Namboothiri,</b> Amrita School of Medicine, Kochi
8:30PM - 8:42PM	Biobanking – Enhancing research in Heart Failure	<b>Dr. Meenakshi Sharma,</b> ICMR, New Delhi
8:45PM - 8:55PM	Recap & Conclusions	<b>Dr. Hisham Ahamed &amp;</b> <b>Dr. K Venugopal</b>
8:55PM - 9:00PM	Day summary & Future perspectives	<b>Dr. VK Chopra</b>

**DAY 3****February 7th Sunday 2021****BRAINSTORMING SESSION – 4.00 – 6.00 PM**

	<b>Introduction</b>	<b>Prof. Dr. CC Kartha</b>
4:00PM - 4:05PM	<b>Message</b>	<b>Prof Dr Ashutosh Sharma,</b> Secretary, Department of Science & Technology
4:05PM - 5:50PM	<b>Discussion</b>	<b>Panelists</b> <b>Rapporteurs : Linda Koshy, Reethu S , Adrija Roy</b>
5:50PM - 6:00PM	<b>Conclusion and Perspectives</b>	<b>Dr. RS Dhaliwal,</b> Head NCD, ICMR, New Delhi