



# International Seminar

on

# Regenerative Medicine and Chronic Degenerative Diseases & Role of Omics and Biomarkers in Health



**09-11**  
**MARCH**  
**2018**

Venue -

**Diamond Jubilee Alumni Auditorium**

(Old Auditorium) Gov't Medical College, Thiruvananthapuram

Organised by : **Dept. of Zoology, University of Kerala**, Faculties under Science, University of Kerala | Society for Advancements in Regenerative Medicine Tissue Engineering and Stem cell Research- India In Association with : **General Hospital, Thiruvananthapuram** | Government Medical College Thiruvananthapuram | Trivandrum Medical College Alumni Association | IMA, Thiruvananthapuram

Supported by : Kerala State Industrial Development Corporation Ltd. (KSIDC)



## Dear Colleagues/ Friends,

On behalf of the Department of Zoology, University of Kerala and General Hospital, Thiruvananthapuram, we have the privilege and honour of inviting you to the International Seminar on "Regenerative Medicine and Chronic Degenerative Diseases & Role of Omics and Biomarkers in Health, to be held from 9<sup>th</sup> to 11<sup>th</sup> of March, 2018 at the Diamond Jubilee Alumni Auditorium (Old Auditorium) Govt. Medical College, Thiruvananthapuram.

Omics aims at the collective characterisation and quantification of pools of biological molecules that translate into the structure, function, and dynamics of an organism or organisms.

With the development of new technologies for assaying biological activity on a global basis in experimental samples, various new "-omics" signatures have been developed to predict disease progression. Genomic, Proteomic, and other omic-based approaches are

broadly used in biomedical research to facilitate the understanding of disease mechanisms and identification of molecular targets and biomarkers for therapeutic and diagnostic development.

A biomarker is formally defined as "a biological characteristic that is objectively measured and evaluated as an indicator of normal biologic processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention". Potential biomarkers have been identified at various molecular levels, including genetic, mRNA, protein/peptide, as well as epigenetic, miRNA, glycans, and metabolites.

Regenerative medicine is an applied field of tissue engineering that holds the realistic promise of regenerating damaged tissues and externally creating "tissues for life" available for implantation. Through research and products developed from this field, patients may achieve better clinical outcomes with less risk and

gain access to new treatment strategies for conditions that were previously untreatable.

Regenerative medicine uses the application of tissue science, tissue engineering, and related biological and engineering principles to restore the structure and function of damaged tissues and organs. This new field encompasses many novel approaches to the treatment of disease and restoration of biological function through the following methods:

1. Using therapies that prompt the body to regenerate damaged tissue autonomously, and
2. Using tissue engineered implants to prompt regeneration and direct transplantation of healthy tissues into damaged environments

Collectively, these treatments allow substantial advances in modern medicine-potential to regenerate irreparably damaged tissues in situ so that they return to full functionality and be able to produce tissues in the

laboratory to be used for transplantation purposes when regeneration is not possible

This seminar is organized by the Department of Zoology, the University of Kerala in association with General Hospital, Thiruvananthapuram, Govt. Medical College Thiruvananthapuram, Trivandrum Medical College Alumni Association and IMA, Thiruvananthapuram.

We look forward to learning and benefiting from your presence and experience in our shared quest for excellence. We are delighted to invite you to join this seminar and enrich the participants with your contributions

**Dr. Sreejith Parameswara Panicker**  
*Organizing Secretary*

**Dr. S. A. Hafiz**  
*Advisor*



## CONFIRMED SPEAKERS

**Padmashri Prof./Dr. G. Vijayaraghavn MD, DM**  
Vice-Chairman & Director, Dean  
KIMS Hospital, Thiruvananthapuram  
**Prof./Dr. Suchitra Sumitran-Holgersson Ph.D**  
University of Gothenburg, Sweden  
**Prof./Dr. Alok Chandra Bharathi Ph.D**  
University of Delhi  
**Prof./Dr. Jayakrishnan A. Ph.D**  
Indian Institute of Technology, Madras  
**Prof./Dr. Parameswaran Hari MD, MRCP, MS**  
Medical College of Wisconsin, USA  
**Prof./Dr. Jabbar P. K., MD, DM**  
Govt. Medical College, Thiruvananthapuram  
**Prof./Dr. Satheesan B. MS, Mch, DNB**  
Director, Malabar Cancer Centre, Kannur  
**Prof./Dr. M.A. Akbar Sha Ph.D**  
Bharathi Dasan University (Rtd), National College, Tiruchirappalli

**Prof./Dr. A. George Koshy MD, DM**  
Govt. Medical college, Thiruvananthapuram  
**Dr. Unni Chandrasekhar Ph.D**  
Cleveland Clinic Lerner Research Institute, USA  
**Dr. Sadasivan Vidyasagar MD, Ph.D**  
University of Florida, USA  
**Dr. Vivek Singh Ph.D**  
Senior Scientist, LV Prasad Eye Institute, Hyderabad  
**Dr. T. V. Anil Kumar Ph.D**  
Scientist G, SCTIMST, Thiruvananthapuram  
**Dr. E. Sreekumar Ph.D**  
Scientist E-II, RGCB, Thiruvananthapuram  
**Dr. Sabu Thomas Ph.D**  
Scientist E-II, RGCB, Thiruvananthapuram  
**Dr. Ajaikumar. B. Kunnumakkara Ph.D**  
Indian Institute of Technology –Guwahati  
**Dr. Sanjay Basak Ph.D**  
National Institute of Nutrition, Hyderabad

**Dr. S. A. Hafiz DGM, M. S (UK), MSC (Canada)**  
General Hospital, Thiruvananthapuram  
**Dr. Pranaya Badge MD, DNB, VEN**  
Derma Vue, Poojappura, Thiruvananthapuram  
**Dr. Sankar V. H. MD, DM**  
SUT Hospital, Thiruvananthapuram  
**Dr. Sunoj MS, MCh**  
NIMS Hospital, Thiruvananthapuram  
**Dr. Abhilash T.P. MD, DM**  
Padmavathi Medical Foundation, Kollam  
**Dr. Ismail Siyad K.H. MD, DM**  
Aster Medcity, Kochi  
**Dr. R. Anil Kumar MD, DM, MRCP**  
Aster Medcity, Kochi  
**Dr. K. Ramachandran MS, Mch**  
Trichy Institute of Regenerative Medicine, TMCH, Tiruchirappalli  
**Dr. Biji Bahuleyan MBBS, MCh**  
Lisie Hospital, Kochi

**Dr. Raj Mohan MD**  
Govt. Ayurveda Medical College, Kannur  
**Dr. S. R. Narahari MD**  
Institute of Applied Dermatology, Kasaragod  
**Dr. M. Natesh Prabhu MD**  
Dhanalakshmi Srinivasan Medical College  
Siruvachur, Perambalur  
**Dr. Mohamed Jaabir Ph.D**  
National College, Tiruchirappalli  
**Dr. Yassar MD.**  
Trichy Institute of Regenerative Medicine, TMCH, Tiruchirappalli  
**Dr. Hazeena K. R. MBBS, DCH, DNB**  
NIMS Hospital, Thiruvananthapuram  
**Dr. Robert Mathew MD, DM**  
SreeMookambika Institute of Medical Sciences, Kanyakumari  
**Aravind R**  
Trichy Institute of Regenerative Medicine, TMCH, Tiruchirappalli







Dept. of Zoology, University of Kerala  
General Hospital, Thiruvananthapuram



### Registration Fee

**PG & Research Students**

**Non stipendary - 500**

**Stipendary - 600**

**Faculties / Doctors - 850**

**Spot Registration - 1000**

Registration ends  
5 March 2018

Spot Registration  
Available

**CME credit hours will be available**  
**Accommodation will**  
**be arranged at request**

DD/Cheque should be sent in the favour of  
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### For Details Contact

**Dr. S.A. Hafiz**  
MBBS, DGM (Geri) M.S.(UK), MSC (Canada)  
Deputy Medical Superintendent  
General Hospital, Thiruvananthapuram  
Email - s.a.hafiz@gmail.com

Advisor

**Dr. Syamsunder O.S. MD,**  
Consultant in Medicine (DNB coordinator),  
General Hospital, Thiruvananthapuram  
Vice President, IMA Thiruvananthapuram Branch

Convener

**Dr. Sreejith Parameswara Panicker**  
PGDSDC, Ph.D, Post.Doc (USA, UK)  
Assistant Professor, Dept. of Zoology,  
University of Kerala, Thiruvananthapuram. 695 581  
Phone - +91 9496 793 794  
Email - regmedandomics@gmail.com  
p.sreejith@gmail.com

Organizing Secretary & Treasurer