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) Govt 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 9th to 11th of March, 2018 at the Diamond Jubilee 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, glycan, 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—potentially 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 Parameswaran Panicker  
Organizing Secretary

Dr. S.A. Hafiz  
Advisor

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CONFIRMED SPEAKERS

Padmashri Prof./Dr. G. Vijayraghavan MD, DM  
Vice-Chairman & Director, Dean  
KIMS Hospital, Thiruvananthapuram

Prof./Dr. Akila Chandra Bharathi Ph.D.  
University of Delhi

Prof./Dr. Jayakrishnan A. Ph.D.  
Indian Institute of Technology, Madras

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Medical College of Wisconsin, USA

Prof./Dr. Jbabbar P.K., MD, DM  
Govt. Medical College, Thiruvananthapuram

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Director, Malabar Cancer Centre, Kannur

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Bharathi Dasan University (Rtd.), National College, Tiruchirappalli

Prof./Dr. A. George Koshy MD, DM  
Govt. Medical college, Thiruvananthapuram

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Cleveland Clinic Lerner Research Institute, USA

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Senior Scientist, LV Prasad Eye Institute, Hyderabad

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Scientist E, RCG, Thiruvananthapuram

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National College, Tiruchirappalli

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Dr. Robert Mathew MD, DM  
SreeMookambika Institute of Medical Sciences, Kanyakumari

Aravind R  
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CME credit hours will be available
Accommodation will be arranged at request

DD/Cheque should be sent in the favour of Omics and Biomarkers payable at Thiruvananthapuram.
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