



# INTERNATIONAL VIRTUAL CONFERENCE ON **ADVANCEMENTS IN BIOPOLYMERS AND THEIR NANO STRUCTURES IN WOUND HEALING**

**28TH -29TH DECEMBER, 2020**

ORGANISED BY

**DEPARTMENTS OF FASHION TECHNOLOGY AND BIOTECHNOLOGY  
KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE, INDIA**



Scheme for Promotion of Academic and Research Collaboration

SPONSORED BY

**MINISTRY OF HUMAN RESOURCE  
DEVELOPMENT (MHRD),  
SPARC, GOVERNMENT OF INDIA.**

IN ASSOCIATION WITH



## About MHRD-SPARC, Govt Of India.

Ministry of Human Resource Development (MHRD), Government of India has launched a new scheme, named as, Scheme for Promotion of Academic and Research Collaboration (SPARC) with a view to facilitating global research networks between a higher educational institutions in India with global universities.

## About The Conference

Electrospinning is the most advanced technique for the production of nanofibres of bio and synthetic polymers and for driving the research and development in the field of health care textiles. Electrospinning is an advanced technique to fabricate medical textiles with drug loaded biopolymers. This conference will help the researchers from science, engineering and medical sciences to come together on a common platform to share their experience and enhance their knowledge on electrospinning technique for nano material development to be used in medicine. This conference covers the topics of detailed advanced techniques of electrospinning and its technical parameters for developing the nanomedical materials for wound healing and infection control. Recent developments on electrospinning techniques, technical parameters, and conditions of electrospinning process affecting fibre morphology will be discussed in this international conference. Eminent scientist and researchers deliver the key note addresses on advancements in Healing process and wound infection controlling strategies and developments of biopolymers and its nanostructure in healing and infection control of wound.

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## About The International Collaborators

### **National University of Singapore(NUS), Singapore.**

Dr. Seeram Ramakrishna, FREng is a Professor of Mechanical Engineering at the National University of Singapore (NUS). NUS is ranked among the top 11 universities in the world. He is the nanotechnology pioneer in Asia. He is an Editor of Elsevier Journal Current Opinion in Biomedical Engineering, and Springer Nature Journal Materials Circular Economy. He received PhD from the University of Cambridge, UK, and the TGMP from Harvard University, USA. He is a Highly Cited Researcher (Clarivate Analytics). Thomson Reuters identified him among the World's most influential scientific minds. He is an elected International Fellow of Royal Academy of Engineering, UK; Academy of Engineering, Singapore; National Academy of Engineering, India; American Institute for Medical & Biological Engineering (AIMBE); ASME, USA; and International Union of Biomaterials Science & Engineering (FBSE).



## **Singapore Eye Research Institute(SERI), Singapore.**

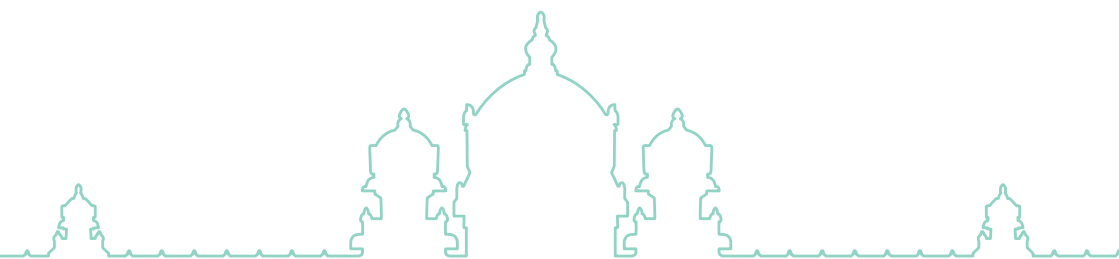
Dr. R. Lakshminarayanan obtained his PhD from the Department of Chemistry at the National University of Singapore in the area of protein chemistry. He was a recipient of the Singapore Millennium Foundation Postdoctoral Fellow and then worked as Research Associate at the University of Southern California. Currently, he is working as Principal Research Scientist at the Singapore Eye Research Institute (SERI). At SERI, his group is working on design of tetrabranch anti-fungal peptides, antimicrobial adjuvants for eye drop formulations, topical delivery of antimicrobial peptides, durable antimicrobial nanofibres and contact lenses and the mechanism of protein aggregation diseases. He has published 95 research articles and 4 Book Chapters with total citations: >300 and h-index: 33 . He is recipient of scientific awards such as Sing Health Publish Award 2017 & 2018, Outstanding Young Scientist Award -2013 in SERI.etc.



## **About The National Collaborators**

### **Kumaraguru College of Technology (KCT), Coimbatore, India.**

Kumaraguru College of Technology, Coimbatore an Autonomous Institution affiliated to Anna University was started in 1984 under the auspices of Ramanandha Adigalar Foundation and guiding spirit of Arutselvar Dr.N. Mahalingam, Sakthi group. Under the able guidance and patronage of Dr.B.K.Krishnaraj Vanavarayar, Chairman, Shri. M.Balasubramaniam, Correspondent, and Shri.Shankar Vanavarayar, Joint Correspondent, the College has developed excellent infrastructural facilities. KCT offers 15 Under Graduate and 14 Post Graduate programmes with many approved Research Centres. More than 6000 students are imparted with quality technical education by a dedicated team of qualified and experienced faculty members. The Institution, Programmes are accredited by NAAC and NBA. The recent ranking of engineering colleges by National Institutional Ranking Framework (NIRF), the college has been ranked at 82nd position in all India basis. 74th rank in Teaching, Learning and Resources (TLR), among private unaided Autonomous engineering colleges in India.



## **Anna University (AU), Chennai, India.**

Anna University was established on 4th September, 1978 as a unitary type of University. This University was named after Late Dr.C.N.Annadurai, former Chief Minister of Tamil Nadu. It offers higher education in Engineering, Technology, Architecture and Applied Sciences relevant to the current and projected needs of the society. Besides promoting research and disseminating knowledge gained, it fosters cooperation between the academic and industrial communities.

Anna University offers 29 UG and 90 PG Programmes in various disciplines in the University Departments and 41 UG and 57 PG programmes in Affiliated Institutions. About 16007 students are pursuing their degree programme in the University Departments and about 7,21,276 students are pursuing their degree programme in the Affiliated institutions. Anna University is proud of having 14023 Ph.D. scholars on roll in Science, Engineering and Technology.

It has unique recognitions such as the University with Potential for Excellence. Anna University is ranked between 151 and 200 in the global level and 7th in the national level. In NIRF ranking, Anna University is ranked 6 th Rank in the University category, 8 th Rank in the Engineering category and 13th Rank in the Overall category. NAAC re-accredited Anna University with a CGPA of 3.46 on a four-point scale (highest among all the State University of Tamil Nadu) at “A” grade valid for a period of five years from 24th September 2014. The University stands 2nd in India in the ‘h’ index citations, based on the research papers published by its faculty members and research scholars.



# INTERNATIONAL VIRTUAL CONFERENCE ON **ADVANCEMENTS IN BIOPOLYMERS AND THEIR NANO STRUCTURES IN WOUND HEALING**

## Speakers & Session Topics

### Speaker



**Prof. Navin Kumar Verma,**  
Nanyang Technological University  
Singapore, Singapore



**Prof. Murali Dhanasekaran**  
Auburn University  
Harrison School of Pharmacy  
Auburn, United States

### Topic

Wound healing process and wound  
infection controlling techniques.

&

Nanotechnology for nanofibrous drugs  
delivery biomaterials

Biomaterials for Wound Healing and  
infection control

## Speaker



**Dr. Karri V V S Narayana Reddy.,**  
JSS College of Pharmacy,  
Tamil Nadu, India.



**Dr. Prabhuraj Venkatraman**  
Manchester Manchester  
Metropolitan University, Greater  
Manchester, United Kingdom



**Prof. Rajan Jose,**  
Universiti Malaysia Pahang,  
Lebuhraya Tun Razak,  
Gambang 26300 Kuantan

## Topic

Hybrid Therapeutic Advancements in  
effective diabetic wound management  
for next-generation

Recent developments in biopolymers for  
biomedical applications

Advancements in Electro spinning  
Techniques for the development of  
Nano fibrous mat



## Speaker



**Dr. Jinlian Hu,**  
Yeung Kin Man Academic Building,  
City University of Hong Kong,  
Hong Kong



**Prof. Seeram Ramakrishna**  
FREng, Chair,  
Circular Economy Taskforce,  
National University Singapore,  
Singapore



**Prof. R. Lakshminarayanan**  
Singapore Eye Research  
Institute (SERI), Singapore

## Topic

Electrospun as a Dressing Material for  
Drug and Biological Agent Delivery in  
Wound Healing Applications

Current Progress of Electrospun  
Nanocarriers for Drug Delivery  
Applications

Electrospinning Fibers for Wound  
Healing Application

&

Preclinical evaluation of antimicrobial  
dressings

## Speaker



**Prof. Maryam Yousefzadeh,**  
Amirkabir University of Technology  
(AUT), Iran



**Prof. Mo Xiumei,**  
Donghua University,  
China



**Dr. Nandakumar Kalarikkal**  
International and Inter University  
Centre for Nanoscience and  
Nanotechnology ,Mahatma Gandhi  
University, Kerala, India

## Topic

Functional nanofibrous materials  
and structures in wound healing

Continuous Nanofibre Yarns spun by  
Electrospinning for wound healing  
applications

Electrospun polymer nanocomposite  
membranes for tissue engineering  
application



## Speaker



**Prof. Lissy Krishnan**  
SCTIMST, Trivandrum,  
India



**Prof. Mukesh Doble**  
IIT Madras, Tamil Nadu,  
India



**Dr. Sameer S. Rahatekar**  
School of Aerospace Transport  
& Manufacturing,  
Cranfield University, UK

## Topic

Biomimetic and bioactive nanofibrous scaffolds from electrospun composite nanofibres

Smart biopolymers for wound healing applications

Recent developments in biopolymers for biomedical applications

**CHIEF PATRON**

Dr. B. K. Krishnaraj Vanavarayar  
Chairman, KCT

**PATRONS**

Shri M. Balasubramaniam  
Correspondent, KCT

**CO- PATRONS**

Shri Shankar Vanavarayar  
Joint Correspondent, KCT

**CHAIRMAN**

Dr. J.Srinivasan  
Principal, KCT

**CONVENERS**

Dr.G.Ramakrishnan, HoD,  
Department of Fashion Technology, KCT

Dr.R.Baskar, HoD,  
Department of Biotechnology, KCT.

**ORGANIZING SECRETARIES**

Professor Seeram Ramakrishna,  
FREng, Chair, Circular Economy Taskforce,  
National University of Singapore, Singapore.

Professor Lakshminarayanan Rajamani,  
Head, Anti-Infectives Research and Principal Research Scientist  
Singapore Eye Research Institute (SERI) Singapore.



## **NATIONAL**

Dr.Bhaarathi Dhurai,

Professor, Department of Fashion technology

Kumaraguru College of Technology Coimbatore. India

Dr.N.Saraswathy,

Professor, Department of Biotechnology,

Kumaraguru College of Technology Coimbatore, India

Dr.R.Y.Sheeja,

Assistant Professor (Senior Grade), Department of Chemistry

Anna University, Guindy, Chennai, India

## **CONTACT**

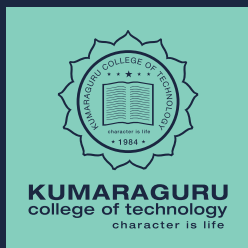
The Organising Secretaries

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## INTERNATIONAL VIRTUAL CONFERENCE ON **ADVANCEMENTS IN BIO POLYMER AND ITS NANO STRUCTURE IN WOUND HEALING**

**For registration**

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**please scan QR Code:**

