



DEPARTMENT OF BIOCHEMISTRY

Andhra University, Visakhapatnam



Cordially Invites you to the Inaugural Function of

VIRTUAL INTERNATIONAL CONFERENCE

on

RECENT TRENDS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

(RTBMB – 2021)

7th - 8th January, 2021

Time : 9:30 AM



Chief Guest

Prof. P.V.G.D. Prasad Reddy

Vice Chancellor
Andhra University



Distinguished Guest

Dr. Prabha L. Atreya

Director, Division of Scientific Advisors
and Consultants, Center for Biologics
Evaluation and Research (CBER),
Food and Drug Administration (FDA), USA



Guest of Honor

Prof. V. Krishna Mohan

Registrar
Andhra University



Guest of Honor

Prof. K. Srinivasa Rao

Principal, AUCST
Andhra University

Prof. K.P.J.Hemalatha
Director

Dr. P. Subhashini Devi
Organizing Secretary

Online support from Andhra University Computer Centre (AUCC)

Chief Patron

Prof. P.V.G.D. Prasad Reddy

Vice-Chancellor, AU

Patrons

Prof. K. Srinivasa Rao,

Principal, AUCST, AU

Prof. V. Krishna Mohan,

Registrar, AU

Organizing Committee

Director

Prof. K. P. J. Hemalatha

Organizing Secretary

Dr.P.Subhashini Devi

Joint Organizing Secretary

Prof. T. Raghava Rao

Members

Prof. P. Radhika

Dr. P. Aparanji

Post Doctoral Fellows

Research Associate

Research Scholars and Students

Department Profile

Established in the year 1971, has witnessed the unparelled transformation to meet the requirements with the ongoing scientific advancements in the field of protease inhibitors of high economic value, bioprospecting of bioactive compounds, enzymes, plant secondary metabolites through *in vitro* cultures etc. Additionally, intensive research in the field of Cell and Molecular Biology, Immunology and Nanotechnology led to the identification of a few immunomodulators and nanomaterials with physiological significance. Based on the performance of the department over the years, it has been recognized with financial assistance by DST- FIST and UGC - SAP.

Scope of the Conference

Fostering young minds with the knowledge from pioneers from various fields of research is the need of the hour. At this juncture, this conference aimed at bringing together faculty and scientists from academia, research organizations and industry to present leading-edge research advancements in Biochemistry and other related areas. Participation of students belonging to various interdisciplinary areas of biological sciences is highly encouraged and emphasized so as to create a scientific temper in the young minds. The field of biochemistry and molecular biology has intense impact in life science investigation. Major progress in these areas over the last few decades has stimulated research and progress in almost all the disciplines of life sciences.

The conference will cover the following broad areas:

- ❖ Importance of redox control of cell cycle, redox signalling in diseases and the mechanisms by which redox signals can alter mitochondrial function, regulation of CYP enzymes
- ❖ Oligonucleotide therapeutics; transforming the practice of diagnostic medicine; neonatal meningitis; emerging tumour suppressor mechanisms.
- ❖ Sigma Factors and their role in bacterial gene expression; the functional role of ribokinases.
- ❖ Geo-Microbial Prospecting

Registration Link : <https://forms.gle/mBKT5CvxMzX5ZYm87>

Session Links : 07-01-2021

Session - 1:

<https://youtu.be/RbTKZXG0DJM>

Session - 2:

<https://youtu.be/2VmqU27qD8E>

08-01-2021

Session - 1:

https://youtu.be/I8mM_yITHpg

Session - 2:

<https://youtu.be/leqGwLHuNvs>

SPEAKERS



Prof. A . Sivaprasadarao
Faculty of Biological Sciences
School of Biomedical Sciences
Leeds University, UK

Dr. Ekambar Kandimalla
Head of Oligonucleotide
Therapeutics and Nucleic Acid
Chemistries at GeneLeap, USA



Prof. Varaprasad Rao Nemani
Department of Pediatrics and Surgery
Children's Hospital Los Angeles
and Molecular Microbiology Immunology,
University of Southern California
Los Angeles, USA

Dr. Elizabeth Nathaniel
Consultant
Nate Petroleum Development
& Research LLP
Navi Mumbai, India



Prof. Roman R. Ganta
Director, CEVBD
Dept. of Diagnostic Medicine/Pathobiology
College of Veterinary Medicine
Kansas State University (KSU), USA

Dr. Bhagavatula Moorthy
Professor and Director
Neonatology Research Program
Department of Pediatrics
Baylor College of Medicine
Director, BCM-Rice Superfund
Research Program (NIEHS)
Houston, USA



Dr. Sai Annapurna Patibandla
Senior Director
Siemens Healthineers
Tarrytown, New York, USA

Dr. Vinay Mandati
Cold Spring Harbor Laboratory, USA



Day-1 (07-01-2021)
Session -1

| Name of the speaker | Title of talk | Time (IST) |
|----------------------------|---|--------------------|
| Prof. Bhagavathula Moorthy | Mechanisms of regulation of cytochrome P450 (CYP)1 enzymes by hyperoxia: Implications for chronic lung disease in premature infants and acute respiratory distress (ARDS) in adults | 10:00 AM - 11:00AM |
| Dr. Elizabeth Nathaniel | Geo-Microbial Prospecting for Hydrocarbon Exploration | 11:00 AM - 12:00PM |

Session -2

| | | |
|-------------------------|---|-------------------|
| Prof. A. Sivaprasadarao | Redox Signalling in Disease | 05:00PM - 06:00PM |
| Dr. Ekambar Kandimalla | Oligonucleotide Therapeutics: Lessons learned and advances made in the last three decades | 06:00PM - 07:00PM |

Day-2 (08-01-2021)
Session -1

| | | |
|-----------------------------|--|-------------------|
| Prof. Roman R. Ganta | <i>Ehrlichia chaffeensis</i> RNA polymerase function defined with its only two sigma factors; σ 32 and σ 70 in driving the bacterial gene expression | 10:00AM - 11:00AM |
| Dr. B. Kondala Rao | A glimpse of DJ-1 member's role in Redox balance and Mitochondrial health | 11:00AM - 11:30AM |
| Dr. G. Santhosh | Structure-function studies of Ribokinase from <i>Leishmania donovani</i> | 11:30AM - 12:00PM |
| Prof. Varaprasad Rao Nemani | Uncovering the unexpected - <i>E. coli</i> K1 survival strategies in neonatal meningitis | 12:00PM - 01:00PM |

Session -2

| | | |
|------------------------------|---|-------------------|
| Dr. Vinay Mandati | Emerging Tumor Suppressor Mechanisms of Hippo-Yap Pathway | 05:30PM - 06:30PM |
| Dr. Sai Annapurna Patibandla | Transforming the practice of diagnostic medicine | 06:30PM -07:30PM |

Contact Details

Dr. P. Subhashini Devi

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Andhra Pradesh, India

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- ❖ No registration fee
- ❖ E-certificate will be issued to the registered participants after filling the Feedback Form.
- ❖ Participants are requested to Login 15 minutes before the scheduled time.
- ❖ Live web session through **Microsoft Teams**.