



# GOLDEN JUBILEE CELEBRATIONS



## & INTERNATIONAL CONFERENCE

on

**“Biochemistry - Unfolding New Horizons of Life” (BUNHL - 2021)**

**26<sup>th</sup> - 28<sup>th</sup> November, 2021**

**Department of Biochemistry, Andhra University, Visakhapatnam**

### **Department Profile**

Department of Biochemistry in Andhra University was established in the year 1971, with a great visionary, late Prof. B. Naganna as founder head of the department and great teachers late Prof. T. M. Radhakrishnan, late Prof. T. Govardhana Reddi and Prof. B. Venkaiah as founder teaching staff members. Since its inception the founder members and their successors worked insistently to ascertain high standards of teaching and research that brought identification to the department at national and international levels. The Department of Biochemistry has got the credit of introducing two other emerging disciplines in the university that is Biotechnology and Microbiology. Based on the performance of the Department, over the years, it has been recognized with financial assistance from DST-FIST (2007 to 2012) UGC Non-SAP and UGC-SAP (2011 to 2016). The Department is active in the university by taking up extensive R&D projects which are being supported by various national agencies like UGC, DST, DBT, and several other state government agencies and some autonomous organizations. Now by 2021 fifty glorious years have passed and the changing years have seen the growth of the department in the form of developments in the infrastructure and alumni occupying very high positions in India and abroad in academic, industry and administrative sectors.

### **Scope of the Conference**

The three-day International Conference on “Biochemistry - Unfolding New Horizons of Life” BUNHL-2021, brings together faculty and scientists from academia, research organizations and industry to present leading-edge research advancements in Biochemistry and other related areas. Participation of faculty and students from interdisciplinary areas of science is highly encouraged and emphasized so as to create a scientific temper. The field of Biochemistry has intense impact in life science investigations. Major progress in these areas over the last few decades have stimulated research and development in almost all disciplines of life sciences.

The conference will cover the following broad areas:

- ❖ Evolution of drug resistance in *M. tuberculosis*, Multi-prong approach for mitigating Covid-19 disease and mRNA Vaccines
- ❖ Homopurine or pyrimidine role in DNA replication, Non-digestible carbohydrates, Type 3 diabetes
- ❖ Evolution of lysosomal biogenesis, Prevention of PAH mediated pulmonary carcinogenesis, Bio-devices for biomedical applications
- ❖ Tick-borne rickettsial disease



**Chief Patron**  
**Prof. P.V.G.D. Prasad Reddy**  
Vice-Chancellor  
Andhra University



**Patron**  
**Prof. K. Samatha**  
Rector  
Andhra University



**Patron**  
**Prof. K. Srinivasa Rao**  
Principal, AUCST  
Andhra University



**Patron**  
**Prof. V. Krishna Mohan**  
Registrar  
Andhra University

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## ORGANIZING COMMITTEE

**Convener**  
Prof. K. P. J. Hemalatha

**Co-Convener**  
Prof. T. Raghava Rao

**Organizing Secretary**  
Dr. P. Subhashini Devi

**Joint Organizing Secretary**  
Dr. P. Aparanji

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## ADVISORY BOARD MEMBERS

Prof. D. Siva Prasad  
Prof. G. Seshagiri Rao  
Prof. A. Rama Rao  
Sri. N. Sreeramulu Mandadi  
Prof. N. Siva Kumar, UoH  
Prof. Roman Reddy Ganta, USA

Sri. P. A.V. Udayabhaskar, IFS  
Dr. A. R. K. Prasad, USA  
Dr. Ekambar Kandimalla, USA  
Prof. Varaprasad Rao Nemani, USA  
Prof. I. Bhaskar Reddy, GITAM  
Dr. Elizabeth Nathaniel, ONGC

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## MEMBERS

Prof. P. Radhika  
Dr. B. Usha  
Dr. P. Koteswara Rao

Research Scholars  
PG Students

## SPEAKERS



### **Dr. Vinay K. Nandicoori**

J C Bose Fellow  
Director, CSIR-CCMB  
Hyderabad, Telangana

### **Prof. N. Siva Kumar**

Senior Professor  
Dept. of Biochemistry  
University of Hyderabad  
Hyderabad, Telangana



### **Dr. B. Sridhar Rao**

American Type Culture  
Collection (ATCC)  
Manassas  
Virginia, USA

### **Dr. G. Muralikrishna**

DAAD Fellow (Germany)  
Former Chief Scientist  
(Scientist-G) & Former HOD  
Professor AcSIR  
Dept. of Biochemistry  
CSIR-CFTRI; Mysore



### **Dr. Subrahmanyam Vangala**

CEO  
Reagene Biosciences Pvt Ltd  
Bangalore  
Director, Reagene  
Innovations Pvt Ltd, Hyd  
CEO, InCan Solutions Pvt Ltd  
Halifax, CANADA

### **Prof. Roman R. Ganta**

Director, Center of  
Excellence for  
Vector-Borne Diseases  
Dept. of Diagnostic  
Medicine/Pathobiology  
College of Veterinary  
Medicine  
Kansas State University  
(KSU), USA



### **Dr. Bhagavatula Moorthy**

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

### **Dr. M. Sasikala**

Director  
Institute of Translational  
Research  
Asian Healthcare  
Foundation  
AIG Hospitals, Hyderabad



### **Dr. Sathuluri Ramachandra Rao**

Associate Professor &  
Nodal Officer PGDPHM  
Course & PIO  
Cellular and Molecular  
Endocrinology Laboratory  
Dept. of Reproductive  
Bio-Medicine, NIHF  
New Delhi

### **Dr. Sudha Chivukula**

Head, RNA Technology  
Research & External  
Innovation  
Sanofi Pasteur  
Cambridge MA, USA





## PROGRAM SCHEDULE

Day - 1 (26-11-2021)	Inaugural Function (Off-line)	10:00 AM -11:30 AM
Keynote Lecture	Prof. N. Siva Kumar, UoH, Hyderabad	11:30 AM - 12:30 PM
Speaker	Title of the talk	Time (IST)
<b>Day-1 (26-11-2021) (Online) Co-ordinator : Prof. K.P.J.Hemalatha</b>		
<b>Dr. M. Sasikala</b> <b>Chairperson</b> <b>Dr. G. Suneel Babu</b> Associate Professor, Department of Biotechnology, School of Life Sciences Babasaheb Bhimrao Ambedkar University, (A Central University), Lucknow, India	Type 3 Diabetes - Unfolding Molecular Mechanisms	03:00 PM to 04:00 PM
<b>Dr. Subrahmanyam Vangala</b> <b>Chairperson</b> <b>Dr. Elizabeth Nathaniel</b> Director, Nate Petroleum Development & Research LLP, Navi Mumbai, India Former General Manager ONGC	Multi-prong approach for mitigating covid-19 disease: Drugs, Vaccines and Passive Immunotherapy.	04:00 PM to 05:00 PM
<b>Day-2 (27-11-2021) (Online) Co-ordinator : Prof. T.Raghava Rao</b>		
<b>Prof. Roman R. Ganta</b> <b>Chairperson</b> <b>Dr. P. Suryanarayana</b> Scientist - 'F' & Group Leader, Clinical Division, ICMR-NIN, Hyderabad	Tick-borne rickettsial disease research program; building the puzzle from research to application	10:00 AM to 11:00 AM
<b>Prof. Bhagavatula Moorthy</b> <b>Chairperson</b> <b>Dr. Sivakumar Vallabhapurapu</b> Associate Professor Biology Division, Cancer Signaling Lab, IISER-Tirupati, AP, India	Molecular mechanisms of prevention of polycyclic aromatic hydrocarbon (PAH)- mediated pulmonary carcinogenesis by omega 3-fatty acids: Implications for human lung cancer	11:00 AM to 12:00 PM
<b>Dr. G. Muralikrishna</b> <b>Chairperson</b> <b>Dr. S. Prasanna Kumar</b> Former General Manger Cell Biology Dept., NATCO Research Centre, Hyderabad	Structure - Functionality of Non-Digestible Carbohydrates	12:00 PM to 01:00 PM
<b>Day-2 Afternoon (Online) Co-ordinators: Prof. P. Radhika/Dr. P. Subhashini Devi</b>		
<b>Dr. Sathuluri Ramachandra Rao</b> <b>Chairperson</b> <b>Dr. P. Anil Kumar</b> Dept. of Biochemistry University of Hyderabad, Hyd, Telangana.	Nano/micro Bio-devices for Biomedical Applications	02:00 PM to 03:00 PM
<b>Dr. Sudha Chivukula</b> <b>Chairperson</b> <b>Dr. J. Sreenivasa Rao</b> Scientist - 'E' / Deputy Director Food Chemistry division, NIN Hyderabad	mRNA Vaccines: A Paradigm Shift in Pandemic Preparedness	03:00 PM to 04:00 PM
<b>Dr. B. Sridhar Rao</b> <b>Chairperson</b> <b>Prof. D. Govinda Rao</b> Dept. of Biochemistry and Molecular Biology School of Biological Science Central University of Kerala, Kerala, India	Role of homopurine/ homopyrimidine sequences in DNA replication	04:00 PM to 05:00 PM
<b>Day-2 (27-11-2021) (Online) Alumni Meet 05:00 -07:00 PM</b>		
<b>Co-ordinators : Sri. P.A.V. Udayabhaskar, IFS &amp; Prof. I. Bhaskar Reddy</b> President, AUBAA Vice-President, AUBAA		

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### Day-3 (28-11-2021) Off-line

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Speaker	Title of the talk	Time (IST)
<b>Dr. Vinay K. Nandicoori</b> J C Bose Fellow Director, CSIR-CCMB Hyderabad, Telangana	Evolution of drug resistance in <i>Mycobacterium tuberculosis</i>	10:30 AM to 11:30 AM

#### Chairpersons

##### **Prof. K.P.J.Hemalatha**

Department of Biochemistry  
Andhra University, Visakhapatnam

##### **Prof. T. Raghava Rao**

Department of Biochemistry  
Andhra University, Visakhapatnam

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#### Valedictory function

11:30 AM  
to  
12:30 PM

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#### Registraton Details

**Registration Link** : <https://forms.gle/zcqtTkBGafH5QnFG9>  
**Deadline for Registration** : 23-11-2021

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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 **Cisco Webex**
  - ❖ Registered participants are required to download **Cisco Webex App**
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#### Contact Details

##### **Dr. P. Subhashini Devi**

Head and Organizing Secretary, BUNHL-2021

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