

## Adikavi Nannaya University

Adikavi Nannaya University was established in March 2006 by an Act of the Andhra Pradesh Legislature (Act 28) in March 2006 at Rajamahendravaram, E.G. Dt. A.P. The university got 12 B status by UGC in the year 2017. The motto of the University is Sarvatra Vidyaya Vardhate Praja, highlights the role of competitive spirit in knowledge creation. Adikavi Nannaya University has been striving to make India a knowledge hub. It offers students a remarkable range of academic courses, with an exemplary range of extracurricular activities, research activities, independent study and public service. It is striving to be an active contributor to the ever expanding field of opportunities under the able guidance and great vision of the Honourable Vice Chancellor Prof. M.Mutyalu Naidu.

### About Rajamahendravaram:

The biggest attraction in Rajamahendravaram is the river Godavari with Asia's largest rail-cum-road bridge. Sir Arthur Cotton built an anicut (dam) in Dowleswaram, Rajamahendravaram is also a place for great poets. The first poet of Telugu, 'Adikavi' Nannaya of the 11<sup>th</sup> century, hails from this city. Other popular spots are the Papi Hills which has spectacular waterfalls, Pattiseema, known for film shootings, and the Rallabandi Subba Rao museum which has an interesting collection of coins, sculpture, and pottery and Palm-leaf manuscripts. The National irrigation project Polavaram is constructing in this place. The national research institution Central Tobacco Research Institute (CTRI) is located in this Place.

**Technical Sessions:** The two day seminar includes key note address and lectures from eminent speakers to provide clear vision on future research path. This program enriches the latest research, teaching and academic skills of all students, scholars and teaching faculty of all branches of life sciences.

## ORGANIZING COMMITTEE

### Chief Patron

**Prof.M.Mutyalu Naidu**

Vice- Chancellor

Adikavi Nannaya University

### Patrons

**Prof T.Ashok**

Registrar

Adikavi Nannaya University

**Dr.T.Hymavathi**

Principal, University College of Science and Technology

Adikavi Nannaya University

### Convener

**Dr.P.Vijaya Nirmala**

Assistant Professor

HOD, Department of Zoology

Adikavi Nannaya University

### Organizing Secretary

**Dr.D.S.R.S.Prakash**

Assistant Professor

### Co-Conveners

**Dr.A.Matta Reddy**, Associate Professor

**Dr. K.Ramaneswari**, Associate Professor

**Dr.D.Kalyani**, Assistant Professor

**Dr.I.J.N.Padmavathi**, Assistant Professor

**Dr.K.Satish Kumar**, Assistant Professor

**Dr.J.Balaji Chandra Mouli**, Assistant Professor

**Dr.K. Kamalakar Rao**, Assistant Professor

**Dr.S. Murali Mohan**, Assistant Professor

**Dr.D.Sridhar**, Assistant Professor

**Dr.V.Govinda Rao**, Assistant Professor

## National Seminar on Recent Trends in Applied Biology (NSRTAB)

16<sup>th</sup> & 17<sup>th</sup> August, 2018



Organized

by

**School of Life & Health Sciences**  
**ADIKAVI NANNAYA UNIVERSITY**  
RAJAHMAHENDRAVARAM – 533296  
ANDHRA PRADESH

<http://www.nannayauniversity.info>

### VENUE

Seminar Hall  
Adikavi Nannaya University  
Rajamahendravaram

### About the National Seminar

The National Seminar on Recent Trends in Applied Biology is an initiative to throw light on latest developments in the fields of all branches of life sciences including botany, zoology, aquaculture, biochemistry, microbiology, genetics and biotechnology. It basically focus on transferring the basic knowledge of living systems and organisms to practical use for developing new technologies and products. During this seminar one can discuss the possible opportunities, ideas, collaborate and draft an action plan to achieve their target with the thought leaders'.The goal of this national seminar is to unite the biology community to have a fresh look at the key topics and challenges that our field facing.

During last five years products, processes and services in the field of biology in India have become reality. The medical world has heavily depended on mute creatures used for experiments in laboratories. The technical program will be covered in two days with four sessions to discuss various modern trends in applied biology.

The first session emphasizes the need of developing alternative methods for laboratory experiments which will have multiple positive impacts to minimize the use of animals in the laboratory. The alternative methods in focus with genetic engineering and rDNA Technology in order to develop the latest eco-friendly techniques and products regarding the safety and health care of all biological systems and human beings. It is possible to achieve the standards of teaching objectives of life science practical courses using alternatives without harm to animals and humans by which students and teachers would be benefited.

The second session intends on the scope of applied biology and extends the use of bio-informatics that is for acquisition, storage, visualization, management, distribution and analysis of molecular biology data. The applied biology constitutes a growing range of techniques, procedures and processes. The confluence of classical and modern technologies enables creation of new products and highly competitive processes in a large number of industrial, agricultural and aquaculture activities as well as in the health sector, this would provide the impulse to radically transform the competitiveness and growth potential for a number of activities and open up new possibilities and to increase aqua and agricultural productivity, in an environmentally sustainable manner, in the face of diminishing land and water resources is a highly challenging task. Knowledge-based approaches including crop genomics can provide powerful solutions and enhance food security, by improving local agricultural productivity, minimizing the use of chemical inputs such as pesticides and fertilizers, insulating crops against loss from diseases and pests, curtailing post-harvest loss including food spoilage, improving food quality and nutrition, increasing crop tolerance to stress factors such as drought and salinity problem, and through the production of value added products.

The seminar will provide a great opportunity to enhance our knowledge from top scientific research professionals. We are excited to offer this unique platform to develop recent trends in applied biology in career as researchers, scientists, academicians and investigators in all branches of life sciences.

**Call for Papers:** Abstracts and full length papers of original research articles or review articles in the broad areas from all branches of life sciences, applied sciences including aquaculture and marine biotechnology, agricultural biotechnology, biochemistry, biotechnology, genetics, microbiology and food technology are invited from teaching faculty, research scholars and PG students.

#### Guidelines for submission:

The abstract of the paper should be about 150-200 words, typed in Times New Roman with font size 12, clearly mentioning Name of Author(s), Title of Paper, Affiliated organization, Contact Number and email-id of Author(s). Full paper may have 10 pages of length. Papers must be typed clearly in the above format on A4 size paper with 1.5 line spacing with 1" margins on all sides.

Accepted papers will be published with ISBN Number

#### Important dates:

Last Date for submission of abstract : 31<sup>st</sup> July , 2018

Last Date for submission of

Full Papers : 04<sup>th</sup> August 2018

Communication of acceptance : 06<sup>th</sup> August,2018

Soft copy of the paper should be mailed to

Email id : [nsrtab.aknu@gmail.com](mailto:nsrtab.aknu@gmail.com)

#### Registration fee (Rs.)

Academicians : 500

Research Scholars : 300

Students : 200

Spot Registrations : 500



### Registration Form

## National Seminar on Recent Trends in Applied Biology (NSRTAB) 16<sup>th</sup> & 17<sup>th</sup> August, 2018

Name (in Capital Letters): -----

Designation : -----

Institute/Organization :-----

Address : -----  
-----

Phone: -----

E-mail: -----

Details of Demand Draft: (To be drawn in favor of Convener (NSRTAB), Payable at Andhra Bank, Adikavi Nannaya University Branch , Rajamahendravaram.-533296, E.G. Dt. A.P.)

Name of the Bank drawn:

Amount: ----- DD No: -----

Date: -----

(Please send the Registration form along with demand draft on or before 4<sup>th</sup> August, 2018)

Date: Signature:

For further information, do not hesitate to contact us

**Organizing Secretary**  
**NSRTAB**

Adikavi Nannaya University  
Rajamahendravaram.  
Mobile: 9291011999, 8328226155

**Convener**  
**NSRTAB**

Adikavi Nannaya University  
Rajamahendravaram.  
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**A report**  
**on**  
**National Seminar on Recent Trends in Applied Biology**  
**(NSRTAB-2018)**

**Date: 16<sup>th</sup> & 17th August, 2018**

**Venue: AdikaviNannaya University, Rajamahendravaram**

A two-day national seminar entitled “National Seminar on Recent Trends in Applied Biology” was organized by Department of Life and Health Science on 16<sup>th</sup> and 17<sup>th</sup> August 2018. Distinguished Honorary Professor Prof. G.Paddaiah of Department of Human Genetics, Andhra University delivered a valuable lecture on “Genetic Engineering and Its Applications To Biology, Medicine, Aquaculture And Environmental Sciences. An invited lecture was given by Dr. B.V Babu Director Grade Scientist) & Head Health Systems Research Division, Indian Council of Medical Research from New Delhi on Developments in Biology and Medicine During Last 10 Years: Revolutionising Healthcare and in his talk he has given a very good overview of emerging game changer technologies in the field of medicine including CRISPR for in situ modification of DNA, manipulating DNA of ageing cells through tinkering with the mitochondria, creating drugs for cancer etc. Later, another invited lecture was delivered by Mr. KC Das from Sanzyme Biologics Pvt Ltd., Hyderabad. In this talk, he has presented on the advance of biotechnology in aquaculture including applications of probiotics in aquaculture and how it leads to growth of aquaculture. Abstracts from different national institutes were received for the publication in national proceeding and full papers were also received on various research aspects scientists and scholars and students across the country. The seminar was a great success and many students and scholars benefited by attending invited and guest lectures utilizing as a very good platform in the University.