

Science Academies' Lecture Workshop on  
"Bio-prospecting the Bio-wealth"

9<sup>th</sup> & 10<sup>th</sup> January, 2017

REGISTRATION FORM

Name :  
Programme & Branch :  
Designation :  
Institution :  
Institutional Address :  
(Telephone, E-mail)

Residential Address :  
(Telephone, E-mail)

Contact Phone No. :

E-mail ID :

Mobile No. :

Date: Signature of the participant

Place:

Convener

Dr. R.R.RAO

INSA Honorary Scientist

Central Institute of Medicinal and Aromatic Plants

Bangalore - 560 064

Coordinator

Dr. J. Anitha

Assistant Professor

Department of Biochemistry and Bioinformatics

Karpagam University

Coimbatore-641021, Tamil Nadu

Venue of the workshop

The two days Lecture Workshop will be held at Bharathi Hall, Karpagam University, Pollachi Main Road, Eachanari post, Coimbatore - 641 021.

Who should attend the workshop

Students undergoing B.Sc./M.Sc./M.Phil./Ph.D. in Botany / Zoology / Microbiology / Biochemistry / Biotechnology / Bioinformatics / Chemistry degree from recognized institutions, Teachers and industry persons.



Science Academies' Lecture Workshop on "Bio-prospecting the Bio-wealth"

9<sup>th</sup> & 10<sup>th</sup> January, 2017

Organized by

Department of Biochemistry and Bioinformatics



KARPAGAM UNIVERSITY

(Established Under Section 3 of UGC Act, 1956)

KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed University, Established Under Section 3 of UGC Act, 1956)

Coimbatore - 641 021, Tamil Nadu, India

Sponsored by

IASc-INSa-NASi Joint Science Education Panel





## KARPAGAM UNIVERSITY

Karpagam Charity Trust was founded in the year 1989 with the aim of providing excellent educational facilities by imparting practical knowledge and skills to the youth and also catering the needs of the society in general through charitable deeds.

Karpagam Academy of Higher Education was evolved in the year 2008 for the purpose of conferment of Deemed to be University status by Ministry of Human Resource Development, Vide No. F.9.24/2004 U.3 (A) dated 25.08.08.

The University Education, in today's scenario, is witnessing a huge paradigm shift and at Karpagam, we are geared to be a part of that transformation. We ensure that our education epitomizes excellence in every sphere.

Steered by the dynamic spirit of our Chancellor, Dr. R. Vasanthakumar, an eminent industrialist and philanthropist, Shri. K. Murugiah, CEO, Dr. S. Sudalaimuthu, Vice-Chancellor, KU and Dr. G. Sekar, Registrar, work together to initiate the emergence of excellence.

Our university has been ranked under Elite category for the quality of research (Current Science, 107:3-389-396 2014) in India.

### The Department

The Department of Biochemistry was established in the year 1995, and further in the year 2002 the Department of Bioinformatics was started.

The aim of our department is to promote quality and value based education by motivating the practical skills, updated knowledge and creativity of students and create progressive research environment to meet the demands of bioinformatics companies, research institutes and provide necessary qualified and skilled manpower based on current trends and skill sets required. The Department has well qualified staff with industrial and research experiences. The special supports procured by the department is computing facility, financial support for research, visiting faculties/ guest faculties, subject related special training/ industrial visits, Faculty Development Programmes, for organizing National level Seminars/Conferences and for arranging Industrial visits for the benefits of the students. An International Workshop on Bioinformatics funded by AICTE and CSIR was organized.

Our department has published around 200 research articles in both National and International Journals and received 6 grants from various funding agencies like UGC, ICMR and DST. The thrust area of research includes microbial enzymes, cancer biology, diabetes, neurobiology, bone biology, medicinal plants and drug discovery.

To our credit, the outcome of the research findings were patented (14) and a confidential disclosure agreement with Nurray Chemicals, Pvt Ltd, Chennai was signed.

The Department offers 3-year UG degree and a 2-year PG degree in Biochemistry, M.Phil and Ph.D research programme in Biochemistry and Bioinformatics. Emphasis is laid on the latest advancements in the field.

### Facilities

The Department has a well-furnished Microbiology lab, Animal House, Animal cell culture lab and Instrumentation lab. Walk-in cold room, bioinformatics lab with Modeller 9.17, ArgusLab 4.0, Discovery Studio Visualizer, PyMOL v1.8.4.0, BioEdit, Chimera and AutoDock Vina and

Central Instrumentation Facility with well sophisticated instruments including HPLC, HPTLC, RT-PCR, AAS, FT-IR, Gel Documentation system, PCR, ELISA, Fermentor, Lyophilizer, Fluorescence microscope, UV-Visible Spectrophotometer, etc., are available for teaching and research activities.

### Workshop

This workshop gives in depth knowledge in the field of Bio-prospecting the bio-wealth. In bioprospection the Floristic diversity in India - conservation and bioprospection will be discussed. This workshop deals with medicinal values of biodiversity and importance of it to the society. In addition this lecture workshop, we will be discussing the various conservation of plant diversity, transfer of genes imparting resistance to biotic and abiotic stresses, soil biodiversity, host pathogen interactions through genomics and proteomics approach. This platform will give basic idea of biological research on Bio-prospecting the bio-wealth and environmental protection.

### Science Academies

Indian Academy of Sciences (IAS), Bangalore founded in 1943 by Sir C.V.Raman, aims at promoting the progress and upholding the cause of science in pure and applied branches. Its major activities include publication and scientific journals and special volumes, recognition of scientific talent and its improvement of science education. As part of the science education programmes, the Indian Academy of Sciences in Bangalore in association with Indian National Science Academy (INSA), New Delhi and Indian National Academy of Sciences (INAS), Allahabad organizes various programmes for the improvement of science education in the Universities and colleges throughout the country.

### Registration Fees

**There is no registration fee** to attend this lecture workshop. Tea and lunch will be provided to the participants. The number of participants is limited to 150 on "First come first serve basis". Those who wish to participate in the lecture workshop should send their filled registration form on or before to 25<sup>th</sup> December, 2016 to

### Dr. J. Anitha

#### Coordinator

Science Academies' Lecture workshop on Bio-prospecting the Bio-wealth  
Department of Biochemistry and Bioinformatics  
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Eachanari (Post), Pollachi Main Road,  
Coimbatore-641021, Tamil Nadu, India.

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Phone: +91-9003855658.

### Workshop Schedule

9 <sup>th</sup> January, 2017 (Monday)		
09.15 – 10.00 am : Registration		
10.00 – 10.15 am : Inauguration		
DURATION	SPEAKER	TITLE
10.15 – 11.15 am	Prof. R.R.Rao Central Institute of Medicinal and Aromatic Plants, Bangalore	Floristic diversity in India Conservation & Bioprospection
TEA BREAK		
11.30-12.45 pm	Prof. D. Bagyaraj Joseph NASI Sr. Scientist & Chairman, CNBRCD, Bangalore	Interactions between AM fungi and other soil organisms
LUNCH BREAK		
1.45-3.00 pm	Prof. K.R.Shivanna Odekar Farms, Nandihalli, Tumkur, Karnataka	Conservation of plant diversity: Need to collect baseline data on reproductive ecology
TEA BREAK		
3.15-4.30 pm	Prof. K. Balamurugan Department of Biotechnology Alagappa University, Karakudi	<i>C. elegans</i> Based <i>in vivo</i> Screening for Bioactives
10 <sup>th</sup> January, 2017 (Tuesday)		
9.30-11.00 am	Prof. K. R. Shivanna Odekar Farms, Nandihalli, Tumkur, Karnataka	Transfer of genes imparting resistance to biotic and abiotic stresses from wild to cultivated species through sexual pathway
TEA BREAK		
11.15-12.30 pm	Prof. K. Balamurugan Department of Biotechnology Alagappa University, Karakudi	Understanding Host- Pathogen Interactions through Genomics and Proteomics
LUNCH BREAK		
1.30- 2.45 pm	Prof. R.R.Rao Central Institute of Medicinal and Aromatic Plants, Bangalore	Plant nomenclature
TEA BREAK		
3.00-4.30 pm	Prof. D. Bagyaraj Joseph NASI Sr. Scientist & Chairman, CNBRCD, Bangalore	Soil biodiversity
Valediction		

### **Event Writeup- Science academics sponsored lecture workshop on Bioprospecting the biowealth**

Department of Biochemistry and Bioinformatics has organized science academics lecture workshop on Bio-prospecting in Bio-wealth during 9<sup>th</sup> and 10<sup>th</sup> January 2017. The Inaugral address was given by Vice Chancellor. This Initiative is taken to create an Environmental conducive for the preservative of plant diversity. The Speakers Prof. R.R. Rao , Prof. K.R, Shivanna , Prof. K. Balamurugan, Prof.D.Bagyaraj Joseph delivered lectures on” Floristic diversity in India Conservation and Bio prospection” , “Conservation of plant diversity : Need to collect baseline data on reproductive Ecology “, “*C.elegans* Based *in vivo* Screening for Bioactives” ,” Interactions between AM fungi and other soil organisms”. The Second day started with lecture from Prof. K.R. Shivanna followed by Prof.K.Balamurugan , Prof. R.R. Rao , Prof. D.Bagyaraj Joseph delivered the lectures on “Transfer of genes imparting resistance to biotic and abiotic stresses from wild to cultivate species through sexual pathway” , “Understanding Host – Pathogen Interactions through Genomics and Proteomics” ,” Plant Nomenclature” , “Soil biodiversity”. During the valedictory function , Various participants gave their feedback and expressed their gratitude to the institution and Indian Academy of Science and INSA for providing the opportunity. Dr. J.Anitha , the Coordinator of the event delivered the” vote of thanks “



Vice Chancellor inaugurating the workshop



Prof. K. Balamurugan talking about C.elegans



Prof RR Rao talking about Diversity



Participants listening to the lectures by the speakers



## Interactive session

