

#### ADVISORY COMMITTEE:

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Rev. Dr. K.A. Maria Arokiaraj SDB, Additional Principal  
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Rev. Dr. G. Theophil Anand, SDB, Vice Principal (Shift-II)  
Rev. Dr. S. John Borg, SDB, Academic Guide

#### CONVENER:

Dr K.R. SHIVANNA, FNA, FASc, FNAAS, FNASc.  
(Formerly Professor and Head, Department of Botany,  
University of Delhi), INSA Honorary Scientist,  
Ashoka Trust for Research in Ecology & the Environment,  
Bengaluru- 560064  
Email: shivanna@atree.org

#### COORDINATOR:

Dr. I. NIYAS AHAMED  
Assistant Professor,  
PG and Research Department of Biochemistry,  
Sacred Heart College (Autonomous),  
Tirupattur - 635 601, Tamil Nadu  
Email: driniyasahamed@shcpt.edu: Mobile: +91 9894785632

#### ORGANIZING COMMITTEE:

Dr. A.C. Gomathi, PG Head  
Dr. R. Ananthalakshmi, UG Head  
Dr. M. Fernandus Durai  
Dr. A. Poongothai  
Dr. A. Jayaprakash  
Dr. V. Durga Devi  
Mr. G. Sivaelango  
Dr. V. Gopalakrishnan

**DURATION OF THE WORKSHOP:** 2 Days (16<sup>th</sup> & 17<sup>th</sup> February 2021)

**Venue/Platform** : Google Meet  
Sacred Heart College (Autonomous)  
Tirupattur, Tamil Nadu

**No. of Participants** : 150

**Registration Details** : Registration is free. Only registered 150 participants are allowed to participate in the workshop. E-certificates will be issued to the participants who has attended all sessions of the workshop on both days.

Registration link

<https://forms.gle/qSSRXV7Eo31SUDB7>

# SCIENCE ACADEMIES' VIRTUAL LECTURE WORKSHOP

ON

## RECENT TRENDS IN BIOLOGICAL SCIENCES

16<sup>th</sup> and 17<sup>th</sup> February 2021

Organized by



**PG and Research Department of Biochemistry  
Sacred Heart College (Autonomous)**  
(Affiliated to Thiruvalluvar University, Vellore)  
Accredited by NAAC 4<sup>th</sup> Cycle under RAF with CGPA of  
3.31/4 at 'A+' Grade  
Tirupattur-635 601, Tirupattur District, TN

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Indian Academy of  
Sciences  
(Bangalore)



Indian National  
Science Academy  
(New Delhi)



The National  
Academy of Sciences  
(Allahabad)

## HOST INSTITUTION

Sacred Heart College (Autonomous) is an affiliated First Grade College of Thiruvalluvar University. This noble institution began its good work from its inception in 1951 in reaching out and imparting quality education to the rural community of students, first generation learners and the economically and socially deprived learners. Founded by a Spanish missionary, Rev. Fr. Joseph Carreno, SDB, the college then functioned with only 10 teachers and 81 students. Now as it approaches its seventh decade in existence it has grown with 187 faculty and 4449 students. Currently it offers 13 Under Graduate (UG) programmes, 14 Post Graduate (PG) programmes and 5 Post Graduate Diploma programmes. It also offers 12 M.Phil programmes and 10 Ph.D. programmes, catering towards producing professionals with high levels of ethical and moral conduct, and excellence in their academic pursuit. Sacred Heart College (Autonomous) having been awarded the 95th rank by NIRF (2017) and 73rd rank by India Today (A Weekly Magazine, June 4, 2018) at the National level, offers a great opportunity to be among the top grade colleges in India. The college aims to establish linkages with institutes of excellence in the field of research within and outside the country and promote significant student and faculty exchange programmes. The college recognizes the need for the establishment of online courses, video/tele/web-conferencing, which enable promising potentials to bridge the cultural and geographical gap of rural students and avail the best brains available in every field. The long term goal of the college is to establish an International Campus and to be one of the globally recognized institutions. In 2019, NAAC accredited the college with CGPA of 3.31/4 at A+ Grade in its 4<sup>th</sup> cycle.

## ABOUT THE DEPARTMENT

The PG & Research Department of Biochemistry was started in the year 2005. A well-equipped laboratory established for UG, PG and Research studies. In a short time, the department is grown into a research department with the support of management and dedicative faculties. The Faculty members undertake research in various fields like Nanotechnology, Cancer studies, Phytochemicals etc. The Department has received awards and Research grants from funding agencies like DST-SERB. The PG students on a regular basis receive TNSCST research grants under student project scheme. Also, the Students and Faculty members receive Research Seed money offered by the College Management to explore their research interest. The department conducts various workshops and seminars with the support of National and State funding agencies for enhancing student's knowledge. Our department faculty members are actively engaged in Teaching, Research and Publication of articles & books.

## ABOUT SCIENCE ACADEMIES

Indian Academy of Sciences was founded in 1934 by Sir C.V. Raman, Nobel Laureate. Its objectives include promoting the progress and upholding the cause of science, both in pure and applied branches. Starting in the mid-1990s, the Indian Academy of Sciences had initiated several activities for the benefit of students and teachers of science all over the country. These included Summer Research Fellowships for students and teachers to work with Fellows of the academy and other faculty in the country; Refresher Courses of two-week duration for teachers; Lecture Workshops of 2 or 3 days duration for students and teachers. The Indian National Science Academy (New Delhi) and The National Academy of Sciences, India (Allahabad) joined with this Academy in conducting three of the programmes viz. Summer Research Fellowships, Refresher Courses, and Lecture Workshops.

## RESOURCE PERSONS

### **Prof. K. R. Shivanna**

INSA Honorary Scientist and Honorary Senior Fellow,  
Ashoka Trust for Research in Ecology and Environment (ATREE),  
Bengaluru-560 064.

### **Dr. D. J. Bagyaraj**

NASI Honorary Scientist and Chairman,  
Centre for Natural Biological Resources and Community Development,  
Bengaluru-560 024.

### **Dr. N. Thajuddin**

Professor & Head,  
Department of Microbiology,  
Dean, Faculty of Science, Engineering & Technology,  
Bharathidasan University, Tiruchirappalli-620 024.

### **Dr. Bharathi P. Salimath**

UGC BSR Faculty Fellow,  
Professor & Chairperson,  
Dept. of Studies in Biotechnology,  
University of Mysore, Mysore - 570006.

## TOPICS TO BE COVERED

- Mycorrhizal fungi and role in agriculture
- Ecology of Arbuscular mycorrhiza fungi
- Pollination: Amazing adaptations of plants to achieve this essential eco-service
- The sixth mass extinction crisis and its impact on biodiversity and human welfare
- Microalgal Biodiversity to Biotechnology
- Taxonomy and DNA Barcoding of Microbes
- Molecular Biology of Cancer
- Trends in Cancer Treatment

## PARTICIPANTS/TARGET GROUP

Students undergoing M.Sc./M.Phil./Ph.D. in Life Sciences from recognized institutions, faculty members and industry people.