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Periyar University, Salem
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- Dr. N. Hemalatha**, Assistant Professor
Dr. R. Dhandapani, Assistant Professor
Department of Microbiology, Periyar University, Salem

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International Conference on

EXTREMOPHILIC MICROBES FOR SUSTAINABLE DEVELOPMENT IN AGRICULTURE, ENVIRONMENT AND HEALTH

December 19-21, 2018



DEPARTMENT OF MICROBIOLOGY
(DST FIST Supported Department)
SCHOOL OF BIOSCIENCES
PERIYAR UNIVERSITY

[Reaccredited with "A" Grade by NAAC]
Periyar Palkalai Nagar, Salem – 636 011
Tamil Nadu, India
www.periyaruniversity.ac.in

Periyar University

Periyar University was established at Salem on 17th September 1997 by the Government of Tamil Nadu. The University has taken rapid strides and is emerging as one of the leading Universities. The vision of the University is to impart knowledge to the society through formal and informal modes and to contribute to nation building. Periyar University is reaccredited with 'A' grade by the NAAC with a CGPA of 3.15 in a four point scale and obtained 90th rank among 779 entries across India in the NIRF-2018. At present, the University has five Science schools and three Arts schools comprising 28 Departments which offer 34 PG programmes and 31 research programmes. Besides the departments, the University has established exclusive centres for Floral Studies, Geoinformatics and Planetary Science, Instrumentation and Maintenance Facility and Renewable Energy Studies. At present 101 colleges are affiliated to Periyar University, which includes 14 Government colleges and 4 Government aided colleges. More than 1.62 lakh students have enrolled for the undergraduate and postgraduate programmes offered in these colleges.

Department of Microbiology

Department of Microbiology has been instituted in the year 2008. The Department is possessed with dedicated and experienced faculty members and fosters research and development activities in major thrust areas including Bioactive compounds, Bioremediation, Enzyme Technology, Medical Mycology and Biofertilizers. The Department is having research collaboration with NIRT and IIT, Chennai and received research grants from various funding agencies including DBT, UGC and TNSCST to support ongoing research projects. On behalf of Periyar University Microbiology Association (PUMIC), several conferences, workshops and lead lectures have been conducted to widen the knowledge and leadership ability of the students. Recently, the Department acquired DST-FIST grant of Rs. 60 lakhs.

Rationale of the Conference

Extremophiles are taxonomically distributed widely and are functionally diverse group that includes thermophiles, psychrophiles, acidophiles, alkalophiles, halophiles, barophiles/piezophiles, metalophiles and radiophiles. Extremophiles have the potential to produce biomolecules of high relevance for white, grey and red biotechnological sectors. These microorganisms produce extremophilic enzymes (extremozymes) and protective organic biomolecules (extremolytes) that convey characteristics for survival in extreme environmental conditions.

The different groups of microbes have a potential role in different possess and applications e.g. Archaea for P-solubilization and mobilization, bacteria and cyanobacteria as probiotics, biodegradation at low temperature, cold adapted enzymes (lipase, amylase, protease, cellulase and xylanase) for industrial applications; anti-freezing compounds production from psychrophilic and psychrotrophic microbes and microbes with multifarious PGP attributes for plant growth and soil health for sustainable agriculture. The economic potential of extremozymes is considerable for their application to agriculture, food and beverages and feed, pharmaceutical, cosmetic, detergent, textile, leather, pulp and paper and biomimicking industries have been used for the development of bio-based economy in a sustainable way. The aim of the Conference is to impart the most current molecular and microbial/bio engineering concepts, skills and technologies in agriculture, environment and health sectors using different extremophiles and their associates in both the national and global levels.

Conference Themes

- ◆ Extremophiles - Applications in Nanotechnology
- ◆ Extremozymes and Extremolytes for Pharmaceuticals and Cosmetics
- ◆ Extremophiles for Energy and Food Production
- ◆ Microbes & its Products for Sustainable Agriculture
- ◆ Microbial diversity of Extremophiles
- ◆ Role of Extremophiles in Microbial Biotechnology
- ◆ Synthesis and Applications of Microbial Metabolites

Abstract submission

An abstract in MS word, Times New Roman (font size 12, line space 1.5) highlighting the results of the work not exceeding 250 words should be in the following format: Title (Capital and bold with font size 14), Authors name (Bold with font size 12), and Affiliation (Address of the institution with e-mail ID of corresponding author). Presenting author should be indicated with an underline. Title, author's name and affiliation should be centre aligned. Key words (font size 12) should not be more than 5. The abstract should be submitted via e-mail to emaeh2018@gmail.com on or before 15th November, 2018.

Oral / Poster Presentations

Authors are requested to indicate their choice for oral/poster presentation. The scientific committee will decide on the suitability of paper for oral or poster presentation. The poster should clearly present the title, the author (s) name (s), affiliation (s) and address. The size of the poster should be with a dimension of 1m (height) x 1m (width). The content of the poster should be easily readable from a distance of 2-3 meters. Oral presentation for every individual paper will be given 10 minutes. Best Presentation Awards will be given to meritorious oral and poster presentations.

Registration

The duly filled registration form may be sent along with the registration fee by non-refundable Demand Draft (DD) in favour of Organizing Secretary, Department of Microbiology, Periyar University payable at Salem, Tamil Nadu or Direct Bank Transfer/NEFT/RTGS to Organizing Secretary, Department of Microbiology, Periyar University A/c No. 8450101003764, IFSC Code: CNRB0008450, CANARA BANK. Kindly send soft copy of your online fees receipt to the email (emaeh2018@gmail.com) to confirm your registration. Registration fee includes Conference materials, working lunch and refreshments.

| Participant | Registration fees | | Important Dates |
|---|-------------------|-----------|---|
| | Indian | Foreigner | |
| Students and Research scholars | Rs. 1000/- | \$ 40 | Abstract submission and Registration Fee On or before 15th November 2018 |
| Faculties, Scientists, Delegates and Industrialists | Rs. 1500/- | \$ 50 | Notification of acceptance On or before 23rd November 2018 |
| Spot Registration | Rs. 1700/- | \$ 60 | |

Salem City

Salem city is the capital of Salem District in the state of Tamil Nadu located in southern part of India. Salem is well connected by rail and road networks. Salem is the fourth largest city in Tamil Nadu by population. Salem is also known for Mangoes and Steels. Salem is a major hub of minerals and mining industries, sago factories, and textile units. There are several attractions in the vicinity of city including the hill stations Yercaud - is also called as Jewel of the South and Kolli hills - popularly known for its medicinal herbs. These hill stations are located in the Eastern Ghats with a salubrious climate throughout the year.

Accommodation

Accommodation may be arranged in the University Guest House (Rs. 500/person/day) on prior request and payment. Similarly limited accommodation can be provided for the scholars and students in the University hostel with payment. Participants are requested to make their own arrangement in booking hotels and few hotel names are listed below for your reference. However, assistance will be provided for booking hotels based on request and prior payment.

- Category I : Radisson, Sivaraj Holiday Inn, GRT Grand Estancia, Chennis Gateway, CJ Pallazzio
- Category II : Sing Saral, Ashwa Park, Shrie Shaanth, Devi Tower
- Category III : City View, Hotel Salem Castle, Hotel Kirthika Palace