# SRI VIDYA MANDIR ARTS & SCIENCE COLLEGE (AUTONOMOUS)



[Affiliated to Periyar University, Salem, Tamil Nadu]
[Accredited by NAAC with 'A' Grade with CGPA of 3.27]
[Recognized 2(f) & 12(B) Status under UGC Act of 1956]
Katteri – 636 902, Uthangarai (Tk),
Krishnagiri (Dt), Tamil Nadu, India



## INTERNATIONAL CONFERENCE ON

INNOVATION AND RELEVANCE IN PLANT SCIENCE AND BIOTECHNOLOGY

(ICPSB - 2021)

MARCH 15-16, 2021







**ORGANIZED BY** 

PG DEPARTMENT OF BOTANY

E-mail ID: icpsbt2021@gmail.com





#### About the College

The visionary Philanthropists of Sri Vidya Mandir Higher Educational Trust started Sri Vidya Mandir Arts and Science College in Uthangarai in the year 2000 with a noble aim of uplifting the economically and educationally backward districts of Dharmapuri and Krishnagiri into a number one educational destination in Tamil Nadu. The College is situated in a sprawling campus of more than 50 acres. The Eastern Ghats, the Queen of Mountains, has bestowed her inexhaustible nature and favourable climate to the growth of flora and fauna around the year. The College is surrounded by the culturally rich pilgrimage centers Hanumantheertham (2 km) and Theerthamalai (15 km) associated with the famous Epic, the Ramayana. The College is well connected with nearby cities and is located in the Salem – Vellore state highways. At present, the College has the students strength of more then 4,000 and 135 Faculty Members. In 2013, the College is recognized under section 2(f) & 12(B) of UGC Act 1956. The College, as an another feather of crown, secured highest CGPA score in NAAC ('A' Grade, 3.27/4.00) among the Affiliated colleges of Periyar University in the first cycle and also sustained the same till 2025. Recently, our college has conferred with the Autonomous status by the UGC.

#### About the Department

The Department of Botany was established in the year 2015 – 2016 and recently in the year 2018-2019, it has upgraded into Postgraduate Department. The Department has a magnificent record at Postgraduate level by producing students with University Ranks and several first classes in University examinations. The department has conducted an International Conference and organized many scientific programmes for the welfare of young aspiring minds of rural studens. The Department of Science & Technology (DST), Govt. of India has conferred the PG Department of Botany with FIST sponsered Department status. The Department has well qualified, experienced as well as young dynamic teaching faculty members with rich academic and research knowledge. The Faculty members of the department have published many books and research articles in various referred national and international Journals.

#### About the Conference

Plant science and Biotechnology Conference 2021 (ICPSB 2021) provides a better understanding of broad and novel topics that have been explored in the world within the discipline of Plant Biology and Biotechnology. It discusses trending techniques; scrutinize key challenges and advises effective solutions.

ICPSB 2021 is an International virtual platform that amalgamates world plant science experts of both academics and industries from everywhere in the world. In this August gathering, the virtual mode brings together all the plant biologists, professors, researchers and students to exchange novel ideas, knowledge and innovations specializing in each theory and practices of Plant Biology and Biotechnology, which facilitate to gather in-depth information during the interactive sessions that may be helpful for the betterment of their academic and research activities.

The conference Organizing Committee remains vigilant in monitoring the COVID-19 pandemic and this event is planned as hybrid format with both onsite and virtual versions and will allow participants who cannot be able to join the conference in-person. We hope that our decision will allow much more people to participate in the ICPSB 2021.

#### **Theme Areas**

- Biodiversity, Conservation and Sustainable Development
- Bio-prospecting
- Plant-Microbe Interactions
- Nano-Biotechnology
- Emerging trends in Plant Biotechnology and Bioinformatics
- Pharmaceutical and Nutraceutical Products from Plants

REGISTRATION

Registration Link: https://forms.gle/XzkeUQKG8rMX48Jz6 E-Certificates will be provided for all the participants

## EXECUTIVE COMMITTEE CHIEF PATRON

#### Thiru. V. CHANDRASEKARAN

Founder, Sri Vidya Mandir Educational Group of Institutions

#### **PATRONS**

Thiru. R.P. RAJEE Secretary Thiru. P. VENKATACHALAM Additional Secretary

CHAIRMEN

Principal

Dr. N. GUNASEKARAN
Vice Principal

ADVISORS

Dr. S. SURESH Controller of Examinations

Dr. T. BALASUBRAMANIAN

Dr. C. RAGAVAN R & D Co-Ordinator

#### CHAIRPERSON

Mrs. N. PUSHPALATHA
Assistant Professor & Head
PG Department of Botany

#### CONVENER

Dr. R. VINOTH KUMAR
Assistant Professor, PG Department of Botany

#### CO-CONVENER

Dr. V. CHINNADURAI
Assistant Professor, PG Department of Botany

#### ORGANIZING SECRETARY

Mr. B. SATHISH KUMAR
Assistant Professor, PG Department of Botany

#### JOINT ORGANIZING SECRETARIES

Mr. K. MURUGESAN
Assistant Professor
PG Department of Botany

Ms. V. DHAARANI Assistant Professor PG Department of Botany

#### Organizing Committee Members – PG Department of Botany

Mrs. S. Praveena Laboratory Assistant

Ms. S. Priyadharshini	Ms. A. Kalaimathi	Mr. E. Elavarasan
Mr. K. Dinesh Kumar	Ms. C. Madhubala	Ms. S.Sandhiya
Mr. C. Kiran Kumar	Mr. K. Vignesh	Ms. S. Kaviya
Mr. P. Surya Kumar	Mr. A. Manikandan	Ms. G. Pavithra
Ms. B. Manjula	Ms. K. Anusha	Mr. M. Dinesh Kumar

#### **Advisory Committee Members**

Prof. Dr. K. Muthuchelian, Pro Vice - Chancellor, Dayananda Sagar University, Bangalore.

Prof. Dr. N. Mathivanan, Registrar i/c, Director CAS Botany, University of Madras, Chennai.

Dr. M. Manivanan, Former Registrar, Periyar University, Salem.

Dr. D. J. Bagyaraj, INSA Honorary Scientist & Chairman, Bangalore.

Prof. Dr. K. Selvam, Professor & Head, Dept. of Botany, Periyar University, Salem.

Prof. Dr. P. Ravichandran, Professor & Head, Dept. of Botany, M.S University, Tirunelveli.

Dr. V. Sivasubramanian, Director, Phycospectrum Environmental Research Centre (PERC), Chennai.

Dr. Kasem Soytong, Associate Professor, KMITL, Thailand.

Dr.Malathi Radhakrishnan, Professor of Biology, Community College, Baltimore City.

Dr. Gaurav Rajauria, Senior Technical Officer, University College of Dublin.

Dr. Rajeev Bhat, Associate Professor, Food Science Department, Fiji National University.

Dr. Arokiyaraj, Associate Professor, Department of Food Science and Biotechnology, Sejong University, South Korea.

Dr. G. C. Abraham, Vice-Principal, The American College, Madurai.

Dr. S. Murugesan, Deputy Head and Associate Professor, Pachaiyappa's College, Chennai.

Dr. S.S. Rathina Kumar, Principal, Sri Subramaniyaswamy Govt. Arts College, Tiruttani.

Dr. S. Sahaya Sathish, Dean and Director, Centre for Cryptogamic studies, St. Joseph's College, Trichy.

Dr.K.Vasanth, Assistant Professor, Dept. of Botany, Bharathiar University, Coimbatore.

Dr. Udhya Kumar, Assistant Professor, Dept. of Botany, M.S University, Tirunelveli.

Dr. D. Kandavel, Associate Professor, Dept. of Botany, Periyar EVR College, Trichy.

Dr. K. Perinbam, Associate Professor, Dept. of Botany, Government Arts College, Nandhanam, Chennai.

Dr. Ayyanar, Assistant Professor in Botany, AVVM Sri Pushpam College, Thanjavur.

Dr. A. Selvaraju, Assistant Professor, Dept. of Botany, Govt. Arts & Science College, Idappadi, Salem.

#### **Contact for Correspondence**

Dr. R. Vinoth Kumar, Convener (ICPSB-2021)
Assistant Professor, PG Department of Botany
Sri Vidya Mandir Arts & Science College (Autonomous)
Katteri, Uthangarai, Krishnagiri, Tamil Nadu, India
Mobile: +91 8220335350

e-mail: icpsbt2021@gmail.com

Mr. B. Sathish Kumar, Organizing Secretary (ICPSB-2021)

Assistant Professor, PG Department of Botany

Sri Vidya Mandir Arts & Science College (Autonomous)
Katteri, Uthangarai, Krishnagiri, Tamil Nadu, India

Mobile: +91 9043370159 e-mail: icpsbt2021@gmail.com



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# INTERNATIONAL CONFERENCE ON HANDLAND DELEVANCE II

INNOVATION AND RELEVANCE IN PLANT SCIENCE AND BIOTECHNOLOGY

(ICPSB - 2021)



MARCH 15-16, 2021



#### **ORGANIZED BY**

## PG DEPARTMENT OF BOTANY



https://us02web.zoom.us/j/88672225909?pwd=dEZQU3R2Umh3RXJKSHB3ZkFDMDd0QT09

Meeting ID: 886 7222 5909

Passcode: 901662

E-mail ID: icpsbt2021@gmail.com



#### The management, Principal, Staff and Students of Post Graduate Department of Botany, Sri Vidya Mandir Arts and Science College, Katteri

Cordially invite you for the

#### INTERNATIONAL CONFERENCE ON

INNOVATION AND RELEVANCE IN
PLANT SCIENCE AND BIOTECHNOLOGY
(ICPSB - 2021)

15-16 March 2021

Venue: College Auditorium (Virtual Mode)

#### INAUGURAL

Invocation

Lighting the Kuthuvilakku

#### Welcome Address

Mrs. N. Pushpalatha Chairperson, ICPSB-2021

#### Theme of the Conference

Dr. R. Vinoth Kumar Convener, ICPSB-2021

#### **Presidential Address**

Thiru V. Chandrasekaran Chief Patron, ICPSB-2021 Founder – Sri Vidya Mandir Group of Educational Institution, Uthangarai, Krishnagiri

#### Inaugural Address

Dr. T. Balasubramanian Chairman, ICPSB-2021 Principal Sri Vidya Mandir Arts & Science College

#### Felicitation

Mr. R.P. Rajee
Patron, ICPSB-2021
Secretary
Sri Vidya Mandir Arts & Science College

Mr. P. Venkatachalam Patron, ICPSB-2021 Additional Secretary

Dr. N. Gunasekaran Chairman, ICPSB-2021 Vice Principal Sri Vidya Mandir Arts & Science College

Sri Vidya Mandir Arts & Science College

#### Vote of Thanks

Dr. V. Chinnadurai Co-Convener, ICPSB-2021.

#### VALEDICTORY

Invocation

#### Welcome Address

Mr. K. Murugesan Joint Organizing Secretary, ICPSB-2021

#### Presidential Address

Dr. T. Balasubramanian Chairman, ICPSB-2021 Principal Sri Vidya Mandir Arts & Science College

#### Conference Report

Mr. B. Sathish Kumar Organizing Secretary, ICPSB-2021 Sri Vidya Mandir Arts & Science College

#### Valedictory Address

Dr. S. Sahaya Sathish
Dean, School of Biological Sciences
Director-Center for Cryptogamic Studies
St. Joseph's College, Trichy

#### Felicitation

Mr. R.P. Rajee
Patron, ICPSB-2021
Secretary
Sri Vidya Mandir Arts & Science College

Mr. P. Venkatachalam Patron, ICPSB-2021 Additional Secretary Sri Vidya Mandir Arts & Science College

Dr. N. Gunasekaran Chairman, ICPSB-2021 Vice Principal Sri Vidya Mandir Arts & Science College

#### Feedback

#### Vote of Thanks

Ms. V. Dhaarani
Joint Organizing Secretary, ICPSB-2021
NATIONAL ANTHEM



# Programme Schedule Day 1 (15.03.2021)

### **INAUGURAL FUNCTION**

Time: 9.30 a.m. - 10.30 a.m.



#### Dr. C. RAMACHANDRAN

Postdoctoral Fellow, Kangwon National University, South Korea
Topic: Development of Value-added synbiotic Enriched Feeds
and Foods

Time: 10.30 a.m. - 11.15 a.m.



#### Dr. SATHIYASEELAN ANBAZHAGAN

Postdoctoral Researcher, Department of Medical Biotechnology, College of Biomedical Science, Kangwon National University, South Korea.

Topic: Application of Nanomaterials in Biotechnology and Biomedicine: An Overview

Time: 11.30 a.m - 12.15 p.m



#### Dr. VISHNU KIRAN MANAM

Co Founder & Head – R&D Dr Yellapragada Life sciences, Andhra Pradesh.

Topic: Isolation, Maintenance of Micro-algal Cultures and their Applications

Time:01.30 p.m - 02.15 p.m



#### Dr. S.MALATHY

Assistant Professor, Government Arts College for Men, Nandanam, Chennai, Tamil Nadu.

Topic: Carbon Foot Print and Climate Change



#### Dr. BASKARAN PONNUSAMY

Principal Scientist & Head in Biotechnology
Dami Oil Palm Research Station (Dami OPRS), WNB, Australia
Topic: Innovative Biotechnological Research on Industrial
Production of Cloning of Oil Palm.

Time: 03.20 p.m - 04.05 p.m





### Day 2 (16.03.2021)

#### Dr. S. AROKIA RAJ

Assistant Professor, Dept. of Food Science & Biotechnology, Sejong University, Seoul, South Korea Topic: Impact of Herbal Medicine during Covid-19 Time: 09.30 a.m. - 10.15 a.m.



#### Dr. MATHEW DAN

Senior Scientist & Head,
Plant Genetic Resource Division, Jawaharlal Nehru Tropical Botanic Garden
& Research Institute, Palode, Thiruvananthapuram, Kerala.
Topic: A Progression from Classification, Taxonomy to

Systematics
Time: 10.30 a.m. – 11.15 a.m.



#### Dr. V. S. RAMACHANDRAN

Professor (Retd.) Dept. of Botany,
Bharathiar University, Coimbatore, Tamil Nadu.
Topic: Relevance of Biodiversity Conservation with
Reference to Climate Change

Time: 11.30 a.m - 12.15 p.m.



#### Dr. MANJU C. NAIR

Assistant Professor, Dept. of Botany,
The Zamorin's Guruvayurappan College, Kozhikode, Kerala.
Topic: Diversity and Distribution of Bryophytes in Kerala
And Its Major Challenges in Conservation

Time: 1.15 p.m. - 2.00 p.m.



#### Dr. V. RAMESH

Assistant Professor and Head, Dept. of Botany, Vivekananda College, Madurai, Tamil Nadu. Topic: Glimpses of Mushroom Cultivation Techniques Time: 2.15 p.m. – 3.00 p.m.

Valedictory Function 3.30 p.m. onwards



Dr. S. Sahaya Sathish
Dean, School of Biological Sciences
St. Joseph's College, Trichy.
Valedictory Address



#### CONFERENCE SUMMARY REPORT

### INTERNATIONAL CONFERENCE ON

## INNOVATION AND RELEVANCE IN PLANT SCIENCE AND BIOTECHNOLOGY

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https://us02web.zoom.us/j/88672225909?pwd=dEZQU3R2Umh3RXJKSHB3ZkFDMDd0QT09

Meeting ID: 886 7222 5909
Passcode: 901662
E-mail ID: icpsbt2021@gmail.com

#### CONFERENCE SUMMARY REPORT

## INTERNATIONAL CONFERENCE ON INNOVATION AND RELEVANCE IN PLANT SCIENCE AND BIOTECHNOLOGY (ICPSB-2021)

The conference was initiated in August 2020 and executive committee was formed from the department along with members from R&D Cell of College. The executive committee identified subject expertise globally, took approval of their willingness to support the conference, and formed an advisory board comprising of 20 members.

The main aim of this conference was to bring together leading academicians, researchers, technocrats, practitioners, and students to exchange and share their experiences and research outputs on all aspects of Plant Science and Biotechnology.

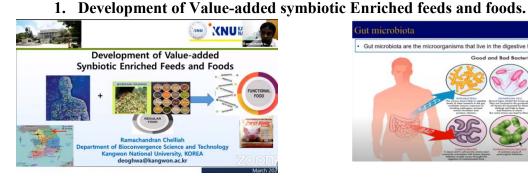
This summary captures the two-day program of Special lectures and keynote addresses. which took place from the 15<sup>th</sup> to 16<sup>th</sup> March 2021 virtually. The event brought together around 250 research scholars, members of faculty, students, and key officials nationally and internationally to discuss the recent advances in Plant Science and Biotechnology with focus on sustainability. It concluded with a keynote lecture in valedictory address describing new and noteworthy initiatives relevant to the conference theme.

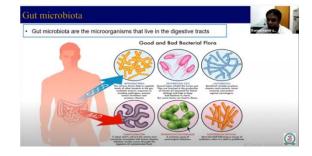
The first day of the conference started with an inaugural session with a welcome address by Mrs. N. Pushpalatha, Chair of ICPSB- 2021 and Assistant Professor& Head, SVM College, Uthangarai and Dr. R. Vinoth Kumar, Convener ICPBS - 2021 and Assistant Professor, SVM College, Uthangarai explained the theme of conference. This was followed by the Presidential Address by Thiru V. Chanderasekaran, Chief Patron, ICPSB- 2021 and Founder - Sri Vidya Mandir Group of Educational institution, Uthangarai. The inaugural address was delivered by Dr. T. Balasubramanian, Chairman, ICPBS-2021 and Principal, SVM College. Felicitations were given by Mr. R.P. Rajee, Mr. P. Venkatachalam, Patron, ICPSB-2021, Dr. N. Gunasekaran, Chairman, ICPSB-2021, Vice Principal, SVM College and a vote of thanks was proposed by Dr. V. Chinnadurai, Co-Convener, ICPSB-2021.



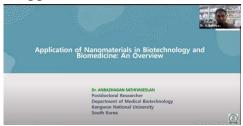
The Special lectures followed the inaugural session. The two-day conference comprised of ten special lectures, five in each day. The conference was structured to foster discussion between participants.

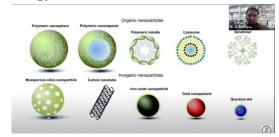
Day 1





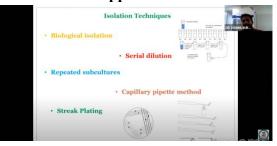
2. Applications of Nanomaterials in Biotechnology and Biomedicine: An Overview





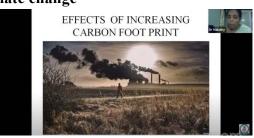
3. Isolation, Maintenance of micro-algal Cultures and their applications.





4. Carbon footprint and climate change





5. Innovative Biotechnological Research on Industrial Production of Cloning of Oil Palm.

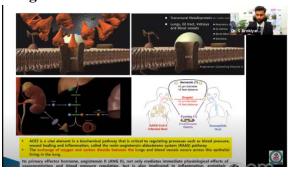




Day 2

#### 6. Impact of Herbal Medicine during Covid-19



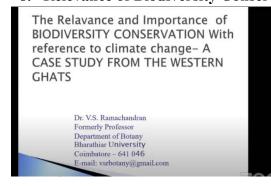


#### 7. A Progression from Classification, Taxonomy to Systematics





#### 8. Relevance of Biodiversity Conservation with Reference to Climate Change



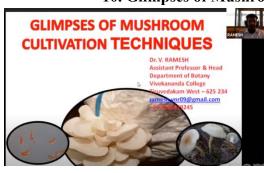


## 9. Diversity and Distribution of Bryophytes in Kerala and its Major Challenges in Conservation





10. Glimpses of Mushroom Cultivation Techniques.





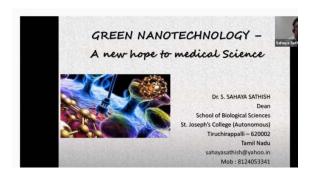
The two-day Conference ended with a valedictory session. The welcome speech in the session was delivered by Mr. K. Murugesan, Joint Organizing Secretary, ICPSB – 2021 & Assistant Professor. This was followed by a Presidential address by Dr. T. Balasubramanian, Chairman, ICPBS-2021 and Principal, SVM College. The conference report was summarized by Mr. B. Sathish Kumar, Organizing Secretary, ICPSB – 2021 & Assistant Professor. This was followed by a valedictory address by Dr. S. Sahaya Sathish, Dean, School of Biological Sciences, Director- Center for Cryptogamic Studies, St. Joseph's College, Trichy. Felicitations were given by Mr. R.P. Rajee, Mr. P. Venkatachalam, Patron, ICPSB-2021, Dr. N. Gunasekaran, Chairman, ICPSB-2021, Vice Principal, SVM College.

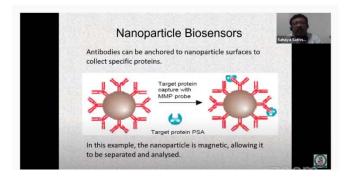












A few delegates gave a feedback on the Conference and after that the overall conference report was summarized by Mr. B. Sathish Kumar, Organizing Secretary, ICPSB – 2021 & Assistant Professor. Finally, the session concluded with a vote of thanks proposed by Mrs. V. Dhaarani, Joint Organizing Secretary, ICPSB – 2021 & Assistant Professor.

The two day International Conference was ended with a National Anthem.

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