





AICTE sponsored Online Short Term Training Programme

on

Functional Metagenomics and Bioprocessing of Therapeutic Enzymes (FMBTE - 2021)

Phase IV - 26.07.2021 to 31.07.2021

Organized by Department of Biotechnology



An Autonomous Institute - Affiliated to Anna University Chennai # 1, Pennalur, Sriperumbudur Tk. Tamil Nadu 602117







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Organised by





Department of Biotechnology
(Accredited by NBA)

Sri Venkateswara College of Engineering

(Autonomous - Affiliated to Anna University) Sriperumbudur Tk. - 602 117, Tamil Nadu

About the Institute

Sri Venkateswara College of Engineering (SVCE), is a unit of Sri Venkateswara Educational and Health Trust (SVEHT). The Trust was founded on 1 August 1985 at the behest and benign blessings of His Holiness Pujashree Kanchi Kamakoti Peedathipathi Sri Jayendra Saraswathi Swamigal. Dr. A. C. Muthiah, a renowned engineer, industrialist and philanthropist, is the Chairman of the Governing Council of the college. SVCE is one of the premier technical institutions in Tamilnadu, the College is situated on the Chennai – Bangaluru National Highway (NH4) about 37 km southwest of Chennai. The college is in a 95-acre lush green Campus. It is housed in architecturally exquisite buildings with ample infrastructure such as classrooms, laboratories, libraries, sports arena, canteen, hostels, dispensary etc. The college offers 11 UG programmes and 7 PG programmes. The National Board of Accreditation accredited many of the eligible programmes, and SVCE is an ISO 9001:2015 certified institution.

About the Department

Sri Venkateswara College of Engineering noted the growth in Modern Industrial Biotechnology. In order to support the growth in Biotechnology, SVCE started the Department of Biotechnology in 2005 under the guidance of our Chairman Dr. A.C. Muthiah, a well-known Industrialist who understands the strength of Industrial Biotechnology.



The department offers B.Tech and M.Tech Biotechnology programmes approved by AICTE. B.Tech programme is accredited by NBA. It is also approved as a Research

Center in Biotechnology for MS (by Research) and Ph.D. programmes by Anna University, Chennai. The Department has well established laboratory facilities namely Genetic Engineering, Bioprocess, Research Lab, Animal house and Computational System Biotechnology Lab. The Department received Research Grants (1.7 Crore) from various funding agencies such as SERB, ICMR, AICTE, CTS and also several grants for organising Short Term Training courses, Workshops, Faculty Development Programmes from various funding agencies such as DBT, SERB, ICMR, CSIR and EDII.

Video tour of the department: https://youtu.be/p6TZo15pL7U

About the Short Term Training Programme

Vast majority of microbes (around 95-99%) in any chosen environment are uncultivable and therefore these microbes cannot be studied using traditional microbial techniques. Metagenomics provide a new paradigm for researches to look at the uncultivable microbial communities and to transform the way we seek for solutions to biomedical/therapeutic, energy and environmental related problems. There is an inherent lag in teaching and learning of the concepts in metagenomics and recombinant protein production due to lack of exposure/opportunity to learn by handson experience. Faculty members need to update and reorient themselves to meet the rapidly changing professional and scientific needs of the society. This STTP is designed to bring together the experts working in metagenomics and bioprocess engineering to impart knowledge to the participants about metagenomics and its application in industrial biotechnology. This STTP is expected to benefit faculty members from AICTE approved engineering colleges, scientists and researchers who are working/ teaching in the area of Biotechnology/Bioinformatics/Chemical Engineering. This online STTP will be conducted through Google Meet platform.

The exact program with slot-wise distribution of lectures will be made available in the website (Click Here) in due course of time to all those who register their "Expression of Interest" to attend the programme.

Resource Persons

Eminent personalities from Department of Biotechnology (DBT), Government of India, IIT's, Anna University, R&D centers and Industries will share their expertise on metagenomic and its implication in bioprocess engineering.

KEYNOTE SPEAKERS

Dr. A. Pazhanimuthu

Managing Director
AURA Biotechnologies Private Limited, Chennai

Dr. G. Baskar

Professor
Department of Biotechnology
St. Joseph's College of Engineering, Chennai

Dr. Arnold Emerson I

Associate Professor School of Bio Sciences & Technology VIT Vellore

Dr. B. Ramaraju

Assistant Professor, Department of Biotechnology, National Institute of Technology Warangal

Dr. Nagendra Thakur

Assistant Professor School of Life Sciences Sikkim University, Gangtok, Sikkim

Dr. Joseph Selvin

Professor and Head
Department of Microbiology
Pondicherry University, Puducherry

Dr. Jagan Obbineni

Assistant Professor
School of Agricultural Innovations and Advanced
Learning, VIT Vellore

Dr. K. Anbarasu

Assistant Professor
Department of Biotechnology
Periyar Maniammai Institute of Science &
Technology, Tanjoore

Mr. Roland Lamuel

Founder & Director Genbloc.ai Bengaluru

Dr. Sathyanarayana N. Gummadi,

Professor
Department of Biotechnology
Indian Institute of Technology, Madras

Dr. Tony Grace

Department of Genomic Science, Central University of Kerala & Adjunct Assistant Professor, Kansas State Univesity, USA

Dr. Mahejibin Khan

Senior Scientist, Microbiology & Fermentation Technology, CSIR- Central Food Technological Research Institute, Mysuru

Dr. V. Naveen Kumar

Founder & Managing Director ImmuGenix Biosciences Pvt Ltd, Chennai

Dr. P. A. Balakumaran

Scientist, CSIR- National Institute for Interdisciplinary Science and Technology (NIIST)

Thiruvananthapuram

Key Points for the Participants

- ➤ The faculty members/ Post-Doctoral Fellows/ Research Scholars of AICTE approved technical institutions, Universities, Research laboratories, Industry personnel's and staff of the host institute may participate in this STTP.
- ➤ Interested persons can fill the details in the registration link available in the programme website (Click Here) under registration tab. Copy of institute/college ID card shall be uploaded while submitting the registration form. Confirmation of their participation will be sent through E-mail.

- Last date for registration: On or before 1 January 2021 (Limited seats Available).
- Intimation about selection: On or before 2 January 2021. (Registration dates for Phase 2, 3 and 4 will be published soon)
- ➤ No Registration fee for attending this online STTP. A test shall be conducted at the end of the programme. The Certificate shall be issued to those participants who have minimum 80% attendance and scored minimum 60% of marks in the test after submission of feedback.

Organising Committee

Chief Patron

Prof. M. Sivanandham Secretary, SVEHT

Patron

Prof. S. Ganesh Vaidyanathan Principal, SVCE

Convenor

Dr. V. Sumitha HoD-Incharge/BIO

Organising Secretaries

Dr. E. Nakkeeran, Professor/BIO
Dr. K. Divakar, Associate Professor/BIO

Coordinators

Ms. R. Rathna, Assistant Professor/BIO rrathna@svce.ac.in

For Queries contact the coordinators. Website: https://sites.google.com/view/fmbte-2021/home









An Autonomous Institute - Affiliated to Anna University Chennai # 1, Pennalur, Sriperumbudur Tk. Tamil Nadu 602117

AICTE sponsored Online Short Term Training Programme

or

"Functional Metagenomics and Bioprocessing of Therapeutic Enzymes (FMBTE - 2021) Phase -4" $26^{th}-31^{st}$ July, 2021

Organized by Department of Biotechnology, SVCE

STTP - SCHEDULE

Google Meet Link: https://meet.google.com/adp-yhsm-snh

TIME/ DAY	09:30-11:30 AM	11:30 AM - 01:30 PM		02:00-04:00 PM	
Day-1	Inaugural Talk by Dr. A. Pazhanimuthu Managing Director AURA Biotechnologies Private Limited, Chennai	Functional Metagenomics for Bioprospecting of Novel Nitroreductases Dr. K. Divakar Associate Professor Department of Biotechnology SVCE, Sriperumbudur		Fungal Asparaginase as a Therap Cancer Treatment Dr. G. Baskar Professor Department of Biotechr St. Joseph's College of Enginee	nology
Day-2	Functional Metagenomics: Current Progress and Future Challenges in the Discovery of Novel Therapeutic Enzymes Dr. Arnold Emerson I Associate Professor School of Bio Sciences & Technology VIT Vellore	Role of Metagenomics in Prospecting Novel Cellulases for Bioethanol Production Dr. B. Ramaraju Assistant Professor Department of Biotechnology National Institute of Technology Warangal		Microbiome of Extreme Env Dr. Nagendra Thak Assistant Professo School of Life Scien Sikkim University, Gangto	kur or oces
Day-3	Metagenomic Approaches in Discovery of Enzymes and Bioactives Dr. Joseph Selvin Professor and Head Department of Microbiology Pondicherry University, Puducherry	Functional Genomics for Therapeutics Dr. Jagan Obbineni Assistant Professor School of Agricultural Innovations and Advanced Learning VIT Vellore	4K	Recent developments in bioprocessing therapeutic proteins Dr. K. Anbarasu Assistant Professor Department of Biotechnology Periyar Maniammai Institute of Science Technology, Tanjoore	
Day-4	Deep Tech Architectures for Genomics by GeneBloc.ai Mr. Roland Lamuel Founder & Director Genbloc.ai Bengaluru	Characterization of Xylose Reductase from Debaryomyces nepalensis (DnXR): Potential Biocatalyst for Xylitol Production Dr. Sathyanarayana N. Gummadi Professor Department of Biotechnology Indian Institute of Technology, Madras	BREAK	Metagenome Analysis Tools at Dr. Tony Grace Department of Genomic Central University of K & Adjunct Assistant Prof Kansas State University	Science Kerala fessor
Day-5	Metagenoimcs: A tool to Understand the Unknown Dr. Mahejibin Khan Senior Scientist Microbiology & Fermentation Technology CSIR- Central Food Technological Research Institute, Mysuru	National Education Policy - NEP 2020 Prof. S. Ganesh Vaidyanathan Principal Sri Venkateswara College of Engineering, Sriperumbudur		The Road to Metagenomics: From DNA Sequencing Techn Dr. V. Naveen Kum Founder & Managing D ImmuGenix Biosciences Pvt I	ologies nar virector
Day-6	Hands-On Session Ms. R. Rathna Assistant Professor Department of Biotechnology SVCE, Sriperumbudu	Fermentative Production of Enzymes - A Case Study on Pectinases Prof. E. Nakkeeran Professor Department of Biotechnology SVCE, Sriperumbudur		Recombinant Protein Production in Yeast Dr. P. A. Balakumaran Scientist CSIR- National Institute for Interdisciplinary Science and Technology (NIIST) Thiruvananthapuram (02:00 -04:00 PM)	Valedictory & Assessment/Test (04:00 -04:30 PM)



DETAILED REPORT ON PHASE - IV

The All India Council for Technical Education (AICTE), New Delhi sponsored online short term training programme (STTP) on "Functional Metagenomics and Bioprocessing of Therapeutic Enzymes" (Phase-4) was organized during 26th-31st July, 2021 by the Department of Biotechnology at Sri Venkateswara College of Engineering, Sriperumbudur through Google Meet platform. This one week STTP included series of lectures from eminent personalities of various industries and institutions and practical demonstration sessions by the in-house faculty members. 87 were registered in this STTP from various colleges/Institutions across the country.

On the first day, the inaugural address followed by Keynote lecture on Metagenomic screening of enzymes was delivered by Dr. A. Pazhanimuthu, Managing Director, AURA Biotechnologies Private Limited, Chennai. After this, a lecture on Functional Metagenomics for Bioprospecting of Novel Nitroreductaseswas delivered by Dr. K. Divakar, Associate Professor, DBT-SVCE in the forenoon. This was followed by a lecture on Fungal Asparaginase as a Therapeutic Agent for Cancer Treatment by Dr. G. Baskar, Professor, Department of Biotechnology, St. Joseph's College of Engineering, Chennai in the afternoon.

On day two, Dr. Arnold Emerson I, Associate Professor, School of Bio Sciences & Technology, VIT Vellore delivered a lecture on Functional Metagenomics: Current Progress and Future Challenges in the Discovery of Novel Therapeutic Enzymes. This was followed by a lecture on Role of Metagenomics in Prospecting Novel Cellulases for Bioethanol Production by Dr. B. Ramaraju, Assistant Professor, Department of Biotechnology, National Institute of Technology, Warangal, in the forenoon. This was followed by a lecture on Microbiome of Extreme Environments by Dr. Nagendra Thakur, Assistant Professor, School of Life Sciences, Sikkim University, Gangtok, Sikkimin the afternoon.

On day three, Dr. K. Divakar, Dr. Joseph Selvin, Professor and Head, Department of Microbiology, Pondicherry University, Puducherry delivered a lecture on Metagenomic Approaches in Discovery of Enzymes and Bioactives. This was followed by a lecture on Functional Genomics for Therapeutics by Dr. Jagan Obbineni, Assistant Professor, School of Agricultural Innovations and Advanced Learning, VIT Vellore in the forenoon. This was followed by a lecture on Recent developments in bioprocessing of therapeutic proteins by Dr. K. Anbarasu, Assistant Professor, Department of Biotechnology, Periyar Maniammai Institute of Science &Technology, Tanjore in the afternoon.

On day four, Mr. Roland Lamuel, Founder & Director, Genbloc.ai, Bengaluru delivered a lecture on Deep Tech Architectures for Genomics by GeneBloc.ai. This was followed by a lecture on Characterization of Xylose Reductase from *Debaryomyces nepalensis* (DnXR): Potential Biocatalyst for Xylitol Production by Dr. Sathyanarayana N. Gummadi Professor,

Department of Biotechnology, Indian Institute of Technology, Madras in the forenoon. This was followed by lecture on Metagenome Analysis Tools and Workflow by Dr. Tony Grace, Department of Genomic Science, Central University of Kerala & Adjunct Assistant Professor, Kansas State University, USA.

On day 5, Dr. Mahejibin Khan, Senior Scientist, Microbiology & Fermentation Technology, CSIR- Central Food Technological Research Institute, Mysurudelivered a lecture on Metagenoimcs: A tool to Understand the Unknown. This was followed by a lecture National Education Policy - NEP 2020 by Prof. S. Ganesh Vaidyanathan, Principal, Sri Venkateswara College of Engineering, Sriperumbudur. This was followed by lecture on The Road to Metagenomics: From Microbiology to DNA Sequencing Technologies delivered by Dr. V. Naveen Kumar, Founder & Managing Director, ImmunoGenix Biosciences Pvt Ltd, Chennai

On the last day, Hands on Session on Metagenomic Tools – Galaxy Server was handled by Ms. R. Rathna, Assistant Professor, DBT-SVCE. This was followed by a lecture on Fermentative Production of Enzymes - A Case Study on Pectinases by Prof. E. Nakkeeran, Professor, Department of Biotechnology, SVCE, Sriperumbudur in the forenoon. In the afternoon, lecture on Recombinant Protein Production in Yeast was delivered by Dr. P. A. Balakumaran, Scientist, CSIR- National Institute for Interdisciplinary Science and Technology (NIIST) Thiruvananthapuram followed by the valedictory address to the participants.

The organizing secretary, Prof. E. Nakkeeran summarized the proceedings of the STTP phase-4. The program was concluded by thanking all the contributors, the management, the funding agency, AICTE-New Delhi for sponsoring the STTP by the organizing secretary, Dr. K. Divakar. The Assessment Test to the participants was conducted through online and the feedback for all the sessions were also obtained from the participants through online Google forms. 27 registered participants were actively participated and cleared the assessment test in this STTP and received the certificate. On the whole the STTP was extremely informative and helpful, and enlightened the participants. The overall feedback provided by the participants for the workshop was more than satisfactory for their needs.



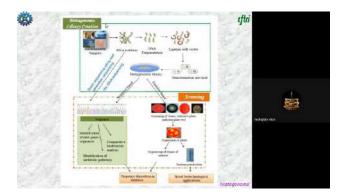




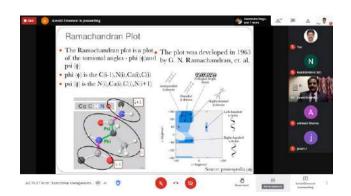
Screenshots taken during the sessions:

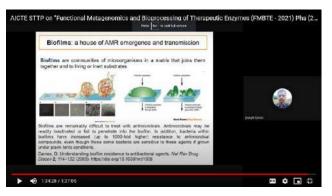












List of eligible/shortlisted participants registered for the STTP Phase - IV

S.No	Name		Gender	Designation	Name of the Institute	State	Email Address	Phone number
1	Mr. Md abu m	ushtaque	Male	Research scholar	NA	Bihar	abu.mushtaque786@gmail.c om	9507595283
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87	Dr. Anuck Islary	Male	Assistant Professor	Central Institute of Technology, Kokrajhar	Assam	anuckofcit@gmail.com	8638029518

List of participants received the certificate in Phase - IV

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1	Dr.M.Kulandhaivel
2	Dr. Manimegalai Sengani
3	Mrs. Suba Sri. M
4	Mrs. Sylaja AM
5	Dr.M.Kalpana devi
6	Ms. Srilatha
7	Ms. Amrutha. T
8	Mrs. Sri Devi M
9	Dr. J. Madhusudhanan
10	Mrs. Jyothi Cherukuri
11	Mr. N Sathish
12	Dr. P. Amali
13	Dr R. Usha
14	Dr.T.Suganya
15	Dr.T.R.Sivashankari
16	Dr.P.Rajasulochana
17	Dr. Brindha Devi P
18	Dr.Lalitha Junna
19	Dr.H.Jemmy christy
20	Mr. Prasanna K
21	Mr. Pravat Kumar Swain

22	Rajakumari K
23	Dr.Nayomi John
24	Dr.R.Caroline Jeba
25	Dr. Suriya Prabha
26	Dr. U. Lalitha Priya
27	Dr. Vidhyadevi U

Steering Committee / Project Monitoring Committee

Prof. S. Ganesh Vaidyanathan Principal (Chairperson)

5/6

Prof. E. Nakkeeran Coordinator (Member Secretary)

Dr. V. Sumitha HoD i/c-BIO (Member) Prof. N. Meyyappan HoD-CHE (Member)

Dr. K. Divakar Asso. Prof./BIO (Member - Subject Expert)







Sample Certificate Copy:





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35 Years of Excellence

ERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

Dr. J. Madhusudhanan

Aarupadai Veedu Institute of Technology

For participating in the AICTE sponsored Online Short Term Training Programme on "Functional Metagenomics and Bioprocessing of Therapeutic Enzymes" organized by the Department of Biotechnology, Sri Venkateswara College of Engineering from 26.07.2021 to 31.07.2021



Organising Secretaries



Head (i/c) of Department





















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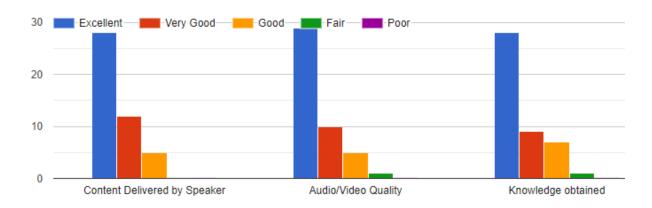
Organization







Feedback from participants:



Other Feedback from participants:

Kindly organise many more informative sessions like this! It was very enlightening.

Thank you for organizing in the specialized area of metagenomics which is cutting edge technology now. Topics are research-oriented and will give deep insights in the specialized area

Got good insights on the topic and what can be done further

Excellent information shared, shows the presenters knowledge in the subject area

Excellent presentations with vast knowledge on metagenomics were provided and given us ideas of research

Looking forward for such type of webinars