

Department of Life Sciences
CHRIST (Deemed to be University), Bangalore
Activity Report

General Information

Type of Activity	Lecture Series
Title of the Activity	“On entrepreneurship Webinar on Role of Microbial Biotechnology in Bioeconomy”
Date	30.04.2021
Time	9.30 to 10.30
Venue	Google meet meet.google.com/nbs-rind-dcv
Collaboration	Madurai Kamaraj University, Madurai, Tamilnadu

Speaker details:

Name	Dr.S. Shanmugasundaram,
Title/Position	Visiting Professor,
Organization	School of Biological Sciences, Madurai Kamaraj University, Tamilnadu
Title	“On entrepreneurship Webinar on Role of Microbial Biotechnology in Bioeconomy”

Participants Profile

Type of Participants	Students
No. of Participants	128

Synopsis of the Activity (Description)

Highlights of the Activity	The objective of the webinar is to make research interests on biological sciences
Key Takeaways	What is the importance of microbial biotechnology in bioeconomy.
Summary of the Activity	Dr.S. Shanmugasundaram, Visiting Professor, School of Biological Sciences, Madurai Kamaraj University, Tamilnadu

	<p>was given a talk on “Role of Microbial Biotechnology in Bioeconomy”. Moreover, the speaker has a vast experience in various capacities, like Asst. Vice-President-Reliance Industries, A2O Life Science Project, Mumbai, Maharashtra, Former, Professor & Head- Dept of Microbial Biotechnology, Madurai Kamaraj University, Scientist-Emeritus, Dept. of Biotechnology, Sri Shakthi Institute of Engineering and Technology and Scientific Advisor for PSG Institutions, Coimbatore. In his talk, he explained various aspects of Microbial Biotechnology, such as the importance of microbial biotechnology offers manifold opportunities for the creation and exploitation of diverse partnerships providing more than mere commercial benefits. Also, he described, the growing economy and increasing the demographic dividend to enhance economic development providing adequate job opportunities also how microbial biotechnology enhances economic growth and employment creation in rural and urban India.</p>
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Rapporteur

Name of the Rapporteur	Dr.P. Manikantan
Email. And contact Number	manikantan.p@christuniversity.in 9566340879



Department of Life Sciences

Organizes Webinar
on

“Role of Microbial Biotechnology in Bioeconomy”

Speaker

Dr.S.Shanmugasundaram

Visiting Professor,
School of Biological Sciences, Madurai Kamaraj University,
Tamilnadu.

Key facts about the Speaker,

- ❖ Former, Asst. Vice-President-Reliance Industries, A2O Life Science Project, Mumbai, Maharashtra.
- ❖ Former, Professor & Head- Dept of Microbial Biotechnology, Madurai Kamaraj University.
- ❖ Scientist-Emeritus, Dept. Of Biotechnology, Sri Shakthi Institute of Engineering and Technology, Coimbatore.
- ❖ Scientific Advisor-PSG Institutions, Coimbatore.

Date:30.04.2021

Time:9.30 to 10.30 AM

All are Welcome

Dr.P.Manikantan
Assistant Professor

Registration Link
<https://forms.gle/7UQuCnF7wFzp287T6>

Department of Life Sciences, CHRIST (Deemed to be University) organized a webinar on “On entrepreneurship Webinar on Role of Microbial Biotechnology in Bioeconomy” on 30th April 2021 (Friday). This event was organized by Dr. P. Manikantan, Assistant Professor, Dept of Life Sciences. Totally 231 registered participants were attended from various academic/research institutes.

Dr.S. Shanmugasundaram, Visiting Professor, School of Biological Sciences, Madurai Kamaraj University, Tamilnadu given a talk on “Role of Microbial Biotechnology in Bioeconomy”. Moreover, the speaker has a vast experience in various capacities, like Asst. Vice-President-Reliance Industries, A2O Life Science Project, Mumbai, Maharashtra, Former, Professor & Head- Dept of Microbial Biotechnology, Madurai Kamaraj University, Scientist-Emeritus, Dept. of Biotechnology, Sri Shakthi Institute of Engineering and Technology and Scientific Advisor for PSG Institutions, Coimbatore. In his talk, he explained various aspects of Microbial Biotechnology, such as the importance of microbial biotechnology offers manifold opportunities for the creation and exploitation of diverse partnerships providing more than mere commercial benefits. Also, he described, the growing economy and increasing the demographic dividend to enhance economic development providing adequate job opportunities also how microbial biotechnology enhances economic growth and employment creation in rural and urban India.

Webinar on "Microbial Biotechnology"

21:44

Microbial Biotechnology

- 1. Environmental applications:** Removal of toxic materials such as textile dye, heavy metals, and pesticides by microorganisms in wastewater treatment technologies (biosorption, bioaccumulation, biodegradation).
- 2. Medical applications:** Production of recombinant vaccines and antibiotics, antimicrobials.
- 3. Application in the field of Energy:** Biogas, biodiesel and bioethanol production by microorganisms.
- 4. In agriculture:** Biofertilizers, bioinsecticides, bioherbicides, virus based bioinsecticides etc.

Sharmigandaram (Guest)

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Participants

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- MANIKANTAN P Organizer
- Nanditha R (Guest)
- 1840604 MEWANBHA LYNGD...
- 1840605 ONGKARNATH RAJK...
- 1840608 SRINJAN BHATTACH...
- 1840609 TARUN GOVIND
- 1840618 B SHIVANI
- 1840621 KAMYA ASHOK
- 1840625 MERIL ABRAHAM
- 1840626 PRIYANKA PRAKASH...

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Biotechnology as an enabler

The diagram illustrates the process of industrial biotechnology. On the left, a vertical strip shows a forest with a CO_2 molecule and a field with a haystack. A blue arrow points from this strip to a central **LIVING CELL**. Above the cell is an **ENZYME** icon. Another blue arrow points from the cell to the right, where various chemical structures are shown. Below the diagram, a text box defines industrial biotechnology.

Industrial Biotechnology is a set of practices that uses living cells or component cells like enzymes, to generate sustainable industrial products and processes.

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Shanmugasundaram (Guest)

Participants

- Type a name
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- In this meeting (129) Mute all
- MP MANIKANTAN P Organizer
 - Nanditha R (Guest) L
 - 1840604 MEWANBHA LYNG... 1840604 MEWANBHA LYNGDOH
 - 1840605 ONGKARNATH RAJK...
 - 1840608 SRINJAN BHATTACH...
 - 1840609 TARUN GOVIND
 - 1840618 B SHIVANI
 - 1840621 KAMYA ASHOK
 - 1840625 MERIL ABRAHAM
 - 1840626 PRIYANKA PRAKASH...

+122 2P 2S 2G 2S S MP

Prof. S. Shanmugasundaram

26/1 Raghav Illam
ELGI Nagar Phase II
Vellalore
Coimbatore-641111



Land line: 0422 2411509
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E. mail: drsundaram@gmail.com

Profile Summary

I have teaching and research experience for the past 40 years.
I have offered a microbial Gene Technology course for 17 years.
I was teaching Genetic Engineering to B. Tech students.
I can offer training / short courses in modern biology

Employment Details

- Visiting Professor to School of Biological Sciences, Madurai Kamaraj University (NAAC A++)
- Biotechnology Consultant to PSGRKCW, Coimbatore
- Served as Scientist Emeritus, Dept. Of Biotechnology at Sri Shakthi Institute of Engineering and Technology, Chinniyampalayam, Coimbatore-641062.
- Served as Asst. Vice- President in Reliance in A2O project from Feb 2011 to 19th April, 2017. (6years)
- Served Madurai Kamaraj University for 32 years in various capacity from 1976 -2008

Project Title: Preparation, Characterization of nanoshells and their use to enhance plant growth

Client: DBT, New Delhi
Duration: Sep 2006 - 2011
Employment Type: Contractual
Project Location: Madurai Kamaraj University
Role: Sr. Project Leader (Team Size: 3)
Skill Used: High pressure homogenization, Particle size estimation, AFM, Confocal microscopy
Role Description: Directing research
Project Details: Controlled release of micronutrients

Project Title: Design and Development of anticancer (OSCC) gene-therapeutics and their Nano-delivery

Client: UGC
Employment Type: Contractual (Duration: Aug 2006 – 2011)
Project Location: Madurai Kamaraj University
Role: Sr. Project Leader (Team Size: 12)
Skill Used: Recombinant DNA, genomics, Gene silencing.
Role Description: Directing Research
Project Details: Design and development of anti-cancer plasmid and peptide therapeutic

Project Title: Technology Development and Demonstration of BGA biofertilizer

Client: DBT, New Delhi
Duration: Jun 1990 - Sep 1997
Project Location: Madurai Kamaraj University
Role: Sr. Project Leader (Team Size: 30)
Skill Used: Recombinant DNA, Molecular tagging, Flexi-bioreactor, product preparation, third party evaluation of the product
Role Description: To direct research and product development
Project Details: A quality assured BGA bio-fertilizer was prepared. BGA bio-fertilizer was applied to 800 / acre in 5 states in India

Participants Attendance

Koushik Koujalagi	2071608	Christ University
Nithya S	2047733	Christ
Priyanka Prakash Tanvashi	1840626	Christ Deemed to be University
James Jenny	2040506	Christ (Deemed To Be University) Bengaluru
Sahil Jain	2040707	Christ
Namrata Vaswani	1940748	Christ University
Bhavana V	1940653	Christ (Deemed to be university)
Liz Leya Ninu	2040641	CHRIST (Deemed to be University)
Krishnanjana B S	2047728	Christ Deemed to be University
Saptadeepa Mukherjee	2047833	Christ University
Jesny Jose	2047825	CHRIST
Kanyaka Jena	2047826	Christ (Deemed to be University)
Ankit Shubham	2040766	Christ University, Bangalore
Deepak T	2071805	CHRIST
GODWIN BABY	2040705	Christ University
Rishik Gandotra	2040616	Christ university
Carolin wilson P	1940712	Christ University Bengaluru
Swati bhatt	2040651	Christ university central campus
Nandhini	1940555	Christ
Angelin Stephy Mascarenhas . S	1947805	Christ(Deemed to be University)
Saher tinwala	1940627	Christ university
Meghana Bhuyan	1940522	Christ(deemed to be University)
Diya Sabu	2040673	Christ University
Sneha Grigary	2071806	CHRIST (DEEMED TO BE UNIVERSITY), Bangalore
Bhadrapriya Sivakumar	2047720	Christ University
Aaron Kurian Manoj Philipose	2040601	Christ University
NEHA MARY JOSEPH	2040572	CHRIST UNIVERSITY
Prajwal Ramesh G K	2040566	Christ University
Prapti c	2040531	Christ University
Aman Kumar	2040602	Christ (Deemed to be University, Central Campus, Bengaluru)
John britto S	1947802	Christ
LINSHA MALI A	2170001	CHRIST UNIVERSITY MAIN CAMPUS
Derrick David	2040503	Christ University, Central campus
Mudit Sharma	1940707	Christ University

Ayush Jain	1840659	CHRIST (Deemed to be University)
Jincy A. George	1942097	Christ (deemed to be university)
Gauri S Khatri	1947721	CHRIST (deemed to be university)
ANNA ATHEENA ANTONY	2040715	Christ university
Bharath Menon A	2040608	Christ University
Shirly Gladious M	1947823	Christ (Deemed to be University)
G Gayatri Devi	2047821	CHRIST UNIVERSITY
Shraddha	2047738	Christ (Deemed to be University)
Anirban Ayush	2040604	Christ University Bangalore
DIYA BAIJU	2040634	Christ university banglore
Gabel Nibu	2040609	Christ University
Meghana Mathew	2040665	Christ university
Sheron Shaji	2040621	Christ University
Mukund R	2040679	Christ (Deemed to be) Univeristy
V.Kartika	2040656	Christ University Bangalore
Liz Leya Ninu	2040641	CHRIST University
Nikhil R Nair	2040614	Christ university Bangalore
Nikhil R Nair	2040614	Christ university Bangalore
Hariharan Agathian	2040610	Christ University
Akshita Mishra	2040684	Christ University Bangalore
SURYA JOTI DEY	2040508	CHRIST(Deemed to be University)
MERRY MARIEA IPE	2040529	Christ Deemed to be University, Bangalore
Nandagopika M	2040583	Christ university
Sankalp Kumar Agasti	2040507	Christ University Bangalore
Ananya K G Hebbar	2040580	Christ deemed to be University
Shreya Rajeeva	2040537	Christ university
Minu Elizabeth Varkey	2040681	CHRIST (Deemed To Be University)
Rajeev Rao	2040552	Christ deemed to be University
Prishi Akanksha	2040645	Christ University, Bengaluru
Hector Andrin Dcruz	2040556	Christ university
Jitty Alin Jacob	2040525	CHRIST (Deemed to be University)
Celine Maria Mendez	2040517	Christ University
Leah Justin	2040640	Christ University
Sheuli Saha	2040535	Christ University, Bangalore
Sonia Theresa.B	2040576	Christ University

Urvi Gupta	1940633	Christ University
Dharshana Raj	2040519	Christ university
Subhiksha.C	2040667	Christ University
Diya Maria Winny	2040636	Christ (Deemed to be University)
NAVYUG BARAIYA	2040555	Christ University Bangalore
ARCHAN SAIKIA	2040605	CHRIST UNIVERSITY
TANYA PRAKASH	2040653	Christ University
Dona Maria Abraham	2040559	Christ university
Aditya Bhat	2040563	Christ university Bangalore
Tanish P R	2040568	Christ University
Aditi Singh	2040512	Christ University Bangalore
Dheeren Pratap Singh Pathania	2040504	Christ University
Krtin Mukundan	2040612	Christ university
Ahana Ghosh	2040760	Christ University
B C Thimaya	2040550	CHRIST (Deemed to be) University
Vaagdevi B.R.	1947732	CHRIST (Deemed to be University)
Rishik Gandotra	2040616	Christ university
Merin George	2040643	Christ Deemed to be University
Aaron Ashwin Albuquerque	2040668	Christ University
Animesh Zacharia	2040603	CHRIST University, Bangalore
Akanksha Tarafdar	2040628	Christ University
Suraj R	2040678	Christ (Deemed to be university)
Gouri patel	2040522	Christ university
NEHA MARY JOSEPH	2040572	CHRIST UNIVERSITY
Shubhangi Shandilya	2040538	Christ university bangalore
Alvin Jaison	2040549	Christ University
Tanishka Sahu	2040544	Christ University
Sahana Nekkanti	2040581	Christ university
Diya Anna George	2040633	Christ University(Deemed to be)
Jobin Jose	2040557	Christ university, Bangalore
Sriraksha S	2040542	Christ University
Elizabeth Joseph	2040722	CHRIST (Deemed to be University)
Devika Chhabra	2040632	Christ university
Diya Maria Winny	2040636	CHRIST University
Alina Lawrence	2040671	Christ Deemed to be university

Sriraksha S	2040542	Christ University
Chetana. A	2040518	Christ University
Pooja P Nayak	2040560	Christ university
James Jenny	2040506	Christ (Deemed to be University), Bengaluru
Nachiketha Rao	2047709	Christ University
Neha Johnson	1840644	Christ(Deemed To Be University)
Hariharan Agathian	2040610	Christ University
Majesh Tomson	3097	CHRIST (Deemed to be University)
Ritu Krishna Raju	2040574	Christ University
Devika Chhabra	2040632	Christ university
Ankita Narain	1940710	Christ deemed to be university
Harshitha Niranjana	2047610	Christ University
Aditi Chaudhary	2071802	Christ University Bangalore
Harsha Santhosh	1947812	CHRIST DEEMED TO BE UNIVERSITY BANGALORE
John merston	2090238	Christ deemed to be University
B C Thimaya	2040550	CHRIST (Deemed to be) University
Paari	1	Christ University
kishor bhat	2047807	christ(deemed to be university)
Sapthami K	1947822	Christ (Deemed to be University)
Angelina Stephy Mascarenhas. S	1947805	CHRIST (DEEMED TO BE UNIVERSITY)
Meghana	1947816	Christ university
Nandini Datta	1840642	Christ University
Prapti Chakraborty	2040531	Christ University
John Britto M J	2040675	Christ Deemed to be University
Dheeren Pratap Singh Pathania	2040504	Christ University
Sneha M Gopi	2040682	Christ university
Samyuktha Prasad	1947821	Christ University
Meetakshara Singh	2040642	Christ university
Kevin Nathaniel	2040611	Christ university
V.Kartika	2040656	Christ University Bangalore
Subhiksha.C	2040667	Christ University
Aman Kumar	2040602	Christ (Deemed to be University, Bangalore Central Campus)
Tanvi Mathur	1840629	CHRIST (Deemed to be University)
Julia John	1947814	Christ (Deemed to be University) Bangalore
Divya Verma	1840710	Christ University

Sohail Ahmed	2040622	Christ University
Ananya K G Hebbar	2040580	Christ deemed to be University
steny v joseph	1947824	christ university
Devika.M	2040570	Christ University
Nandagopika M	2040583	Christ university
Celine Maria Mendez	2040517	Christ University Bangalore
Sangeetha. S	2040561	Christ University
Lohitkumaar S	2040674	Christ university
Maria Raju	1947817	Christ University Bangalore
Tejashwini. V	2040577	Christ deemed to be University
Ritu Krishna Raju	2040574	Christ University
Sahana Nekkanti	2040581	Christ university
Tanishka Sahu	2040544	Christ University
Rutwick Surya U	1840704	Christ (Deemed to be University)
S P Lokesh	2040567	Christ university Bangalore
Muzivoto Kotso	1947803	Christ (Deemed to be University)
Tanish P R	2040568	Christ University
Gauraangi Raghav	2040520	Christ (Deemed to be University)
Akanksha Tarafdar	2040628	Christ University
Dona Maria Abraham	2040559	Christ university
Derrick David	2040503	Christ University
Keerthana A	1947815	Christ University
Suraj R	2040678	Christ(Deemed to be university)
Madhu S Kulkarni	1840660	Christ University
Jobin jose	2040557	Christ university banglore
Priyanka sah	1840646	Christ deemed to be University
Dr Ganesh S	218	CHRUST(Deemed to be University)
Shweta Satheesh	2040539	Christ University
Tushar Kumar Jain	2040509	CHRIST University
Archit kumar	2040502	Christ University
Yash srivastava	2040625	Christ university
Uthra Karthikeyan	1940657	Christ University
Sriraksha S	2040542	Christ University
Roshan Ravindra Malapur	1840606	CHRIST (Deemed to be University)
Anirban Ayush	2040604	Christ University

Gabel Nibu	2040609	Christ University
Leah Justin	2040640	Christ university
Samyuktha Kothandaraman	2040666	Christ (Deemed to be) University
Alan Benny	1840632	Christ(deemed to be) University
Kahini Vijay Arya	2040639	CHRIST (Deemed to be University)
Titus Thomas	2040662	CHRIST university
Diya Maria Winny	2040636	Christ (Deemed to be University)
Veeksha R Reddy	2040683	Christ university
Chirag sai k	2040687	Christ University
Kamya	1840621	CHRIST University
Rashmi Agarwal	1840647	CHRIST (Deemed to be University)
Sona	2040650	Christ University Bangalore
SHALINI S	1840653	CHRIST (Deemed to be University)
Meril Abraham	1840625	Christ (Deemed to be) University
Urja Das	2040655	Christ University
Ramesh D K	1840652	CHRIST(DEEMED TO BE UNIVERSITY)
Rounak De	2040617	Christ University, Bangalore
Tiasa Das	2040654	Christ University
Rohan R Krishnan	2047604	CHRIST (Deemed to be University)
Savan Antony Dsouza	2047810	Christ University
Divya Verma	1840710	Christ University
Manjunath Patil	2047707	Christ University Bangalore
Kushala R	1840738	Christ (Deemed to be University)
SABAHAT BATUL ALIAS KHUSNUMA	2047832	Christ(Deemed to be) University
SOMPALLI BHAVANA	1940090	CHRIST UNIVERSITY
Amith S J	2047801	Christ (Deemed to be University)
Eva Suman Lakra	2047608	CHRIST UNIVERSITY BANGLORE
Harini	2047824	CHRIST (Deemed to be University)
Arnav Gore	2040606	Christ University
Nanditha R	2090239	CHRIST(Deemed to be University)
Nithya	2047733	Christ (Deemed to be University)
Gouri Patel	2040522	CHRIST university
Nivedita Varma	1840553	Christ University
Anand .K	2047802	CHRIST(Deemed to be university) Bangalore
Tarun Govind	1840609	CHRIST - Deemed to be University, Bangalore

Sanskar Jain	2040619	Christ University
Vysakh madhu	2040510	Christ University
Rutwick Surya U	1840704	Christ (Deemed to be University)
Sradha.S	1840741	Christ(deemed to be University)
ASHITHA N B	2047607	CHRIST DEEMED TO BE UNIVERSITY, KARNATAKA
Jerin James	1947813	Christ (Deemed to be University)
Aksa Ann Mathew	2040670	Christ (Deemed to be University)
Kanyaka Jena	2047826	Christ (Deemed to be University)
Neha Rakesh Nair	1840645	CHRIST (Deemed to be University)
RAMESH D K	1840652	CHRIST(DEEMED TO BE UNIVERSITY)
Andria	2047813	Christ university
Vaibhav arya	2040624	Christ university
Kamya	1840621	CHRIST University
Abhay Ballakoor	2040658	Christ deemed to be University
GAURI S KHATRI	1947721	CHRIST (deemed to be university)
Sradha.S	1840741	Chrust(deemed to be University)
Samyuktha Prasad	1947821	Christ (Deemed to be University)
Shirly Gladius M	1947823	Christ University
Vaibhav arya	2040624	Christ university

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