

Webinar - Exploiting Marine Bacteria for Production of Value-added Biomaterials from Renewable Resources

First year B. Tech. & Faculty of Education in collaboration with Office of International Relations organized an International Webinar on 'Exploiting Marine Bacteria for Production of Value-added Biomaterials from Renewable Resources: An Effort towards Embracing Circular Economy' on 23.03.2021.

The Resource person Ts.Dr.KesavenBhubalan, Associate Professor, Head of Marine Science & Acting Deputy Dean of Talent and Research at the Faculty of Science and Marine Environment, Universiti Malaysia Terengganu (UMT) explained the need of the hour in protecting the Marine Bacteria from getting exploited and to produce Biomaterials from the renewable resources and to increase the economy. The session was an eye opener in the field of protecting the marine eco system for the younger generation.



Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
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Periyar E.V.R. High Road, Maduravoyal, Chennai-95, Tamilnadu, India.

Faculty of Engineering & Technology
First Year B.Tech
&
Faculty of Education

In collaboration with
Office of International Relations

Presents
A webinar on
“Exploiting marine bacteria for production of value-added biomaterials from renewable resources: an effort towards embracing circular economy”



Assoc. Prof. Ts. Dr. Kesaven Bhubalan
Head of Marine Science & Acting Deputy Dean
(Talent & Research)
Faculty of Science and Marine Environment,
Universiti Malaysia Terengganu,
Terengganu, MALAYSIA

Date: 23/03/2021 **Time:** 12 NOON
Registration Link: <https://forms.gle/jG27TzYsX7LCHzaS7>

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KESAVEN BHUBALAN

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The presentation slide shows a circular diagram with 'Marine surface waters' in the center. Text on the right states: 'Marine surface waters maintain steady populations of approximately 10⁷ bacteria per mL.' The slide also features images of water, a microscope, and a petri dish.

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Dr. S. Durga

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Journal of Sustainability Science and Management
Volume 12 Number 3, December 2017: 89-95
ISSN: 1522-8556
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CHARACTERIZATION AND CYTOTOXICITY OF POLYHYDROXYALKANOATE MICROPARTICLES AS ADJUVANT MATRIX FOR THE IMMOBILIZATION OF *Pasteurella multocida* WHOLE-CELL VACCINE

SHAZWANI MOHAMED^{1,2}, AL-AHRAAF ABDULLAH AMRUL^{1,4}, ABDUL WAHID MOHD EFFENDY³ AND KESAVEN BHUBALAN^{1,2,4*}

P. multocida PHA microparticle

The IgG response following intramuscular exposure based on respective treatments.

The slide includes a scanning electron microscope (SEM) image of PHA microparticles, a photograph of a cow, and a line graph showing the IgG response over time for different treatments. The graph has four data series: 'PHAVax (Control)', 'PHAVax + PHA microparticle', 'PHAVax + PHA microparticle + P. multocida', and 'PHAVax + PHA microparticle + P. multocida + PHA microparticle'. The y-axis represents IgG concentration and the x-axis represents time in days.

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Dr.M

INTRODUCTION UNIT - PowerPoint (Product Activation Failed)

MASTER OF SCIENCE ENVIRONMENTAL FORENSICS

COURSE OVERVIEW

- The program provides hands-on training in environmental forensics.
- Relevant past environmental incidents.
- Risk assessments of chemicals with potentially impact the environment and human health.
- Introduce the law applied to environmental management in Malaysia and the regulatory environment and related in monitoring and protecting the environment.

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Addressing National & Global Issues...

SUSTAINABLE DEVELOPMENT GOALS TO TRANSFORM OUR WORLD

Global production capacities of bioplastic in 2018

Material	Percentage
Other (Bio-based/non-biodegradable)	0.9%
PE	9.3%
PA	11.6%
PP*	0.0%
PEF*	0.0%
PET	9.2%
PBAT	7.2%
PBS	4.6%
PLA	10.3%
PHA	1.4%
Starch blends	18.2%
Other (biodegradable)	1.5%
Bio-based/non-biodegradable	16.8%
Biodegradable	41.2%

MALAYSIA'S ROADMAP TOWARDS ZERO SINGLE-USE PLASTICS 2018-2030

Source: European Bioplastics

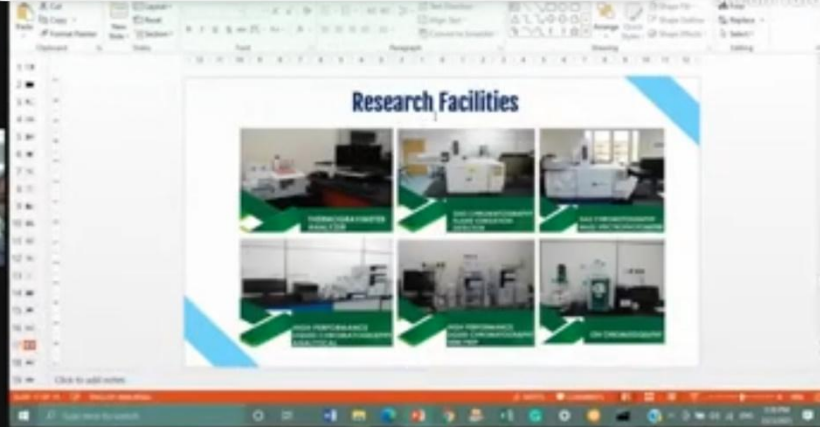
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Word of God 🙏: +91 97894 98764 <https://youtu.be/DVt0TW3VQmM>



Research Facilities

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- ULTRA VIOLET RAY FLUORESCENCE SPECTROPHOTOMETER
- UV VIS SPECTROPHOTOMETER
- PHOTODUPLICATION UNIT
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