Webinar Series : Waste-Derived Nanomaterials

Part-I : Industrial Wastes to Nano-commodities: Status, Impact and Future Prospects

जैव प्रौद्योगिकी विभाग
Department of Biotechnology
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DEAKIN UNIVERSITY

Date: 7th October, 2021
Time: 14.00 - 16:00 IST (GMT +05:30)

Key features:

- Scope and use of the waste-derived nano-materials and their environmental impact
- Discuss new ideas on designs of safer chemical reaction and synthetic routes that yield enhanced sustainability outcomes
- E-certificates
- Networking

Speakers

Dr Prakram Singh Chauhan, Faculty of Biotechnology and Food Engineering, The Technion - Israel Institute of Technology, Haifa, Israel

Dr. Deepesh Bhatt, Dept. of Biotechnology, SRK Institute, Veer Narmad South Gujarat University, Surat, Gujarat, India

Dr. Manashi Das Purkayastha, Food Engineering & Technology, Assam Agricultural University, Jorhat, Assam

Chair

Dr. Vibha Dhawan, Director General, TERI

Coordinator

Dr. Pushplata Singh, Acting Director, TERI Deakin Nanobiotechnology Centre

Co-Cordinator

Dr. Ruchi Agrawal, Associate Fellow, TERI

Dr. Suneeti Singh, Research Associate, TERI

Background Concept:

Globally, around billion tons of solid waste is generated every year, causing drastic losses to the environment, atmosphere and human health. This situation has motivated the development and implementation of different policy strategies including complete bans on single use plastics, the reduction of hazardous substances and treatment of hazardous wastes to reduce their toxicity. Since industrial waste materials (e-waste, radioactive waste, plastic wastes and industrial sludges) are a good source for the recovery of metals and other elements therefore have tremendous potential for the synthesis of nano-materials. In last few decades, sufficient progress has been made for the synthesis of nano-materials from such wastes using chemical or biochemical approaches and a paradigm shift has now taken place to *"create wealth from waste"* rather than mere remediation of waste. This webinar series will highlight the various leads being taken to derive nano-materials from various industrial waste resources via a 'Circular Economy' model, which is based upon principle of 'process', 'recycle' and 'reduce waste'.

Organizer: TERI-Deakin Nanobiotechnology Centre
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