

E-YUVA Center, Career College (Autonomous), Bhopal

Title of the project: Bagasse based hydrogel Nano bandages with antimicrobial properties through polyherbal drug formulation

Start Date of Project: 1st December 2022

End Date of project: 29th February 2024

Scope of Project: This study innovates wound care by integrating eucalyptus-honey extracts, silver nanoparticles, and bagasse-based hydrogel bandages. Antimicrobial efficacy against pathogens is proven, promising enhanced wound healing. This sustainable approach, emphasizing eco-consciousness, holds potential for transformative wound management pending further research and clinical validation.

Details of New Patent's Filed:

- **Indian patent Application Number:**202421016548
- **Title of Patent Application:** Biogenic synthesis of Silver Nanoparticles using Eucalyptus and Honey.
- **Priority Date:** N/A
- **Name of Applicant:** Alexia Varghese, Alfiya Raqeeb, Sushmita Roy and Reena Antony
Department of Microbiology, Career College, BHEL, Bhopal, M.P.
- **Abstract/Description:** Traditional methods of synthesizing silver nanoparticles often involve the use of toxic solvents and high energy consumption. However, there is a growing demand for environmentally benign synthesis methods, known as biogenic synthesis, to mitigate the adverse environmental impacts associated with nanoparticle production. Biogenic synthesis methods utilize natural sources such as plant extracts and biocompatible materials to facilitate nanoparticle formation, offering a sustainable alternative to conventional techniques. In this context, the use of eucalyptus bulbous and honey as precursors for silver nanoparticle synthesis presents a promising avenue for eco-friendly nanoparticle production.
- **PCT Application number (if filed):** N/A



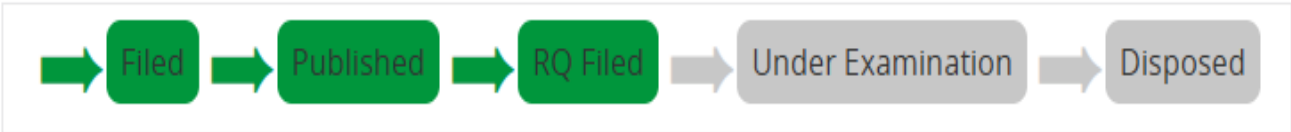
Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India



Application Details	
APPLICATION NUMBER	202421016548
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/03/2024
APPLICANT NAME	1 . Ms. Alexia Varghese 2 . Ms. Alfiya Raqeeb 3 . Ms. Sushmita Roy 4 . Dr. Reena Antony
TITLE OF INVENTION	"BIOGENIC SYNTHESIS OF SILVER NANOPARTICLES USING EUCALYPTUS AND HONEY"
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	ipr.elpisanalytix@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	05/09/2024
PUBLICATION DATE (U/S 11A)	05/04/2024

Application Status	
APPLICATION STATUS	Application Awaiting Examination

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