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DPGU wins major ICMR grant of Rs 1.09 Cr for diabetic wound care innovation

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Innovation integrates electrospinning technology, bio-derived materials, and advanced coculture cell design

ICMR INTERMEDIATE GRANT FOR RESEARCH PROJECT

IIRPIG - 2025 - 01 - 01082



Dnyaan Prasad Global University
Dr. D. Y. Patil Unitech Society
School of Pharmacy and Research



icmr
INDIAN COUNCIL OF
MEDICAL RESEARCH
founded in the year 1952

One Crore Nine Lakhs Ninety Three Thousand Four Hundred and Thirty Seven

₹ 1,09,93,437

Grant For First Year 2025 - 26

DPGU's SPR - Project Investigators



Dr. Asha Thomas



Dr. Sanjeevani Deshkar



Dr. Vinita Patole



Dr. Avinash Sanap



Dr. Ramesh Bhonde

In a significant boost to biomedical research in Maharashtra, a team from Dnyaan Prasad Global University School of Pharmacy and Research by Dr. D.Y. Patil Unitech Society has secured a prestigious ICMR Intermediate Grant (IIRPIG-2025-

01-01082) worth Rs 1,09,93,437 for their work on developing an advanced biomaterial for diabetic wound care.

The project, led by Dr Asha Thomas, Head of the Department of Pharmaceutical Chemistry, with co-investigators Dr Sanjeevani Deshkar (HOD, Pharmaceuticals) and Dr Vinita Patole, focuses on creating a collagen–elastin composite scaffold supported by bioactive chicken-derived skin oil to accelerate healing in chronic diabetic wounds.

The team also plans to explore co-culture techniques using keratinocyte and fibroblast cells to enhance tissue regeneration — an area that holds tremendous promise for patients with slow-healing ulcers.

The innovation integrates electrospinning technology, bio-derived materials, and advanced coculture cell design, representing a truly translational approach to regenerative medicine. Chronic diabetic wounds remain one of the most critical unmet clinical needs in healthcare, and this research aims to deliver a next-generation, cost-effective biomaterial that can strengthen clinical outcomes and reduce healing time in high-risk patients.