

Plant-Based Drug for Diabetic Foot Ulcers

Prelims: Current events of national and international relations | Science and Technology

Why in news?

Recently CSIR-Indian Institute of Chemical Technology (IICT) develops plant-based drug candidate for diabetic foot ulcers.

- **Research supported under** - 'CSIR Phytopharmaceutical Mission Phase III'.
- The phytopharmaceutical derived from the medicinal plant *Gymnema sylvestre*.
 - It lower inflammation, fight resistant bacteria, and speed up tissue repair.

A phytopharmaceutical drug is a purified and standardized fraction of a medicinal plant extract containing a minimum of four bioactive compounds.

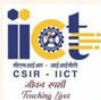
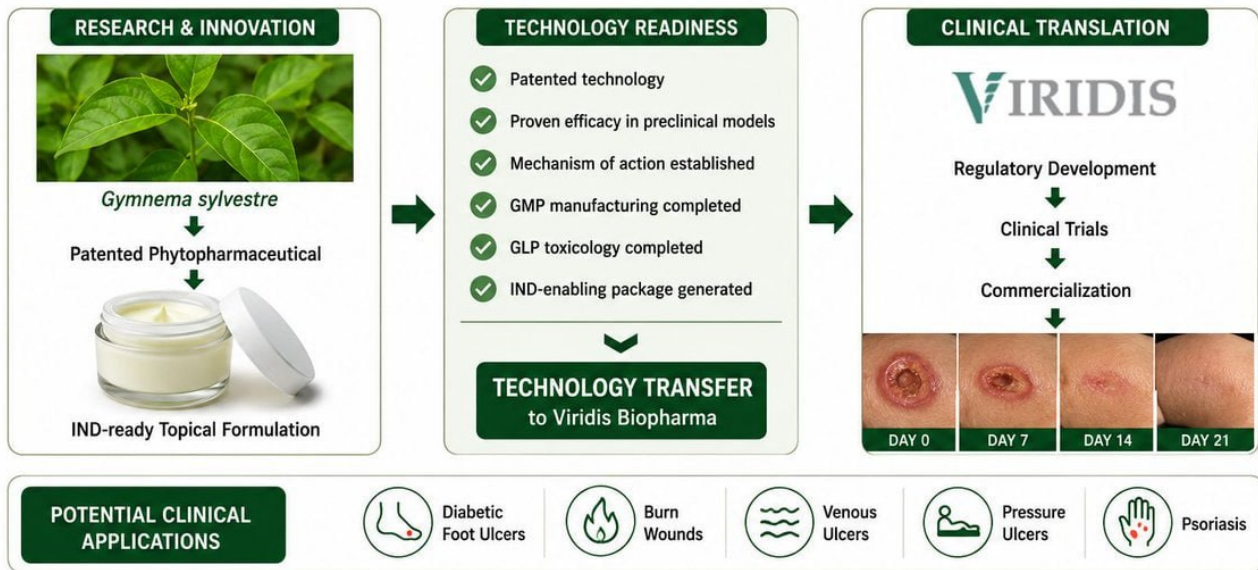
- The research has secured patent protection in India as well as in international jurisdictions
- It provides a comprehensive Investigational New Drug (IND)-ready data package for the standardised botanical therapeutic.
- **Significance** - The research highlights the strength of India's scientific capabilities and evidence-based botanical drug discovery.

CSIR Phytopharmaceutical Mission Phase-III

- **Period** - 2024-2027
- It translates scientifically validated plant-based leads into modern, clinically useful therapeutic drugs.
- **Coordinated by** - CSIR-IIIM and labs like CSIR-IIC.
- **Focuses on** - Creating IND-ready data packages, captive medicinal plant cultivation, and industry tech transfers.
- **Core goals** -
 - Develop phytopharmaceuticals for unmet medical needs through pre-clinical and clinical trials.
 - Scale up medicinal plant cultivation and quality planting material production for a reliable raw-drug supply.
 - Link farmers with industry to reduce import dependence and boost global market competitiveness.

CSIR-IICT TRANSFERS IND-READY PHYTOPHARMACEUTICAL TECHNOLOGY TO VIRIDIS BIOPHARMA

From Laboratory Discovery to Clinical Translation



CSIR- IICT
CSIR - Indian Institute of
Chemical Technology

Technology transferred under licence from CSIR-IICT to Viridis Biopharma

ENABLING INNOVATION. IMPACTING LIVES.

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Reference

[The Hindu| Plant-Based Drug for Diabetic Foot Ulcers](#)



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