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**Research Experience:** 10 years

**Patents:** Granted: 01 Applied: 03

**Research Focus :**

- Synthesis of 2- deoxy-d-ribose biomass derived sugar using non-noble metal catalyst under mild conditions. Patent application no. 202421079618.
- A catalyst for esterification and transesterification of fatty acid and process of preparation thereof (Indian patent application no 202421046343).

**Technology Licensed:** NA

**Interested Industry member kindly connect through:**

**Email Id: [icc-industryacademia@iccmil.in](mailto:icc-industryacademia@iccmil.in)**

## **Technologies (Proof of Concept- POC):**

- The selective oxidation of xylitol.
- Catalytic esterification.- Products: Biofuels –Methyl oleate, Methyl palmitate, Methyl Stearate, Methyl laurate, Methyl myristate

Biosurfactant- Glucose oleate, Glucose palmitate, Glucose stearate, Glucose laurate, glucose myristate.

Fragrances –Isoamyl acetate, Geraniol acetate, Benzyl acetate, Citronellol acetate, amyl acetate, Ethyl benzoate

## **Technologies under development:**

- This technology was developed up to 100 gm batches on a lab scale. The product has been confirmed using GCMS, LC-MS and NMR.

## **Targeted Industries:**

- GlaxoSmithKline (GSK), Merck & Co. (MSD), AstraZeneca, Alnylam Pharmaceuticals, Idenix Pharmaceuticals, PharmaEssentia, Sierra Oncology), Carbosynth, Sigma-Aldrich (Merck Life Science).
- Biodiesel → Neste, ADM, Renewable Energy Group, Fragrances → Givaudan, Firmenich, IFF, Symrise, Biosurfactants → Evonik, Jeneil Biotech, Holiferm, galaxy biosurfactants.

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