SCIENCESPRINGDAY



Chemistry Department



Objectives

Implementation of integrated biotransformation/separation processes.

Elucidation of structure-function relationships for enzymes in nonconventional media.

Development of conductive biopolymers.

Valorisation of waste biomass.

Methodology

Use of nonaqueous solvents, including compressed gases, ionic liquids and combined ionic liquid/supercritical fluids.

Use of medium engineering combined with spectroscopic techniques.

Incorporating an ionic liquid in a biopolymer.

Extraction/conversion of compounds from waste biomass using subcritical water.

Expected Results

Integrated biotransformation/separation process for enantiomer separation.

Elucidation of the behavior of immobilized enzymes in nonaqueous solvents.

Solid electrolyte.

Added-value/useful compounds from waste biomass.

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