Enzyme Technology Laboratory

Researchers:
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- Enzyme technology, Protein purification, Protein Engineering
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- Enzyme technology, Microbiology
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Achievements:
- To generate high quality master and Ph.D. students.
- To discover high potential enzymes for plant cell wall degradation under aerobic and anaerobic conditions.
- To elucidate on enzymes in basically and advance for identification of enzyme properties and characteristics.
- To utilize enzymes for biorefinery and other applications.

Research Areas:
Research in Enzyme Technology Laboratory is focused on the new knowledge and utilization of enzymes for industrial processes. The laboratory’s activities include screening for high lignocellulosic degrading enzymes from microbial isolates and elucidation of enzyme characteristics to development of enzymatic processes in industry.

Microorganism: Screening and isolation of multienzyme complex under aerobic and anaerobic conditions for efficiently degradation of plant cell wall.

Enzyme: Elucidation on multienzyme complex and multiple enzyme system by studying on enzymatic hydrolysis, thermo stability, binding ability, synergism, etc.

Applications: Identification and optimization on enzyme production and hydrolysis for application in some industries for example sugar and oligosaccharides production, an efficient treatment for detoxification process of cassava stanch and other biorefinery from lignocelluloses.

Selected Publications:


