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Molecular Biotechnology,
Environmental Biotechnology,
Enzyme Technology

Research Area

Environmental Biotechnology

- Industrial and agricultural waste utilization
- Improvement of wastewater treatment system
- Utilization of microorganisms for the degradation and remediation of contaminants from the environment

Enzyme Technology and Food Biotechnology

- Study of enzyme from microorganisms and their applications
- Probiotics and prebiotics from herbal plants and bacteria
- Study of bioactive compounds from microorganisms isolated from fermented foods

Marine Biotechnology

- Production of biopolymers, coloring agents, anticancer, enzyme, biosurfactant and bioemulsifier from marine microorganisms
- Shrimp probiotics

Bioprocess Technology

- Development and scale up of fermentation process and enzyme reaction
- Bioreactor design for fermentation process and enzyme reaction

Molecular Biotechnology Utilization of genetic engineering techniques in the various biotechnological researches

- Improvement of microorganisms or industrial enzymes properties
- Study of biodegradation mechanisms
- Screening of antibacterial substances or bioremediation-related characteristics and its applications