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**Experience** : 9 years

**Specialization** : Animal tissue culture

**Research Interests**

My experience has enriched and spurred my interest in the field of bioprocess technology. Bioprocess Technology is essential for translating the discoveries of biotechnology into tangible commercial products, thereby reaping the benefits of biotechnology.

Large scale animal cell culture: There is an immense need of development of efficient processes for the production of biopharmaceuticals. I am working for development of model systems for study of human diseases.

Enzyme Technology: Enzymes are exciting molecules to work with. My research focuses to work on immobilization of enzymes, enzymes from extremophiles, enzymes for activation of prodrugs etc.

New drugs and drug delivery methods: New drugs and new drug delivery systems are required to improve the safety and efficacy of the drugs. Development in new Drug delivery systems would offer the additional benefits of ease of administration, increased patient compliance, decreased side effects and cost reduction.

Tissue engineering: Development in the field of tissue engineering has yielded a novel set of tissue replacement parts & implementation strategies. Research in biomaterials, stem cells, growth factors propelled the growth of tissues in vitro in laboratory from combinations of scaffolds, cells and biologically active molecules. More research is required to achieve the development of functional organs and complex functional body parts by tissue engineering approaches.