

**Government of India
Department of Biotechnology
Ministry of Science and Technology**

Call for Proposals

Indo-German Cooperation in Biotechnology

In pursuance of a Joint Agreement signed on 15 February 2001 between the Department of Biotechnology (DBT), Government of India and Forschungszentrum Julich GMBH (FZJ), Federal Republic of Germany on cooperation in the field of Biotechnology, the Indian scientists are invited to propose Joint Research Projects with German scientists from Research Centre, Juelich (FZJ) and German Research Centre for Biotechnology (GBF). The following specific areas have been identified for collaborative research emphasis:

- ◆ Isolation, characterization of microorganisms for production of metabolites.
- ◆ NMR-spectroscopy techniques for investigation of metabolic pathways.
- ◆ Synthesis, regulation and transport mechanisms of secreted proteins in Gram-positive bacteria.
- ◆ Over-expression of proteins and protein design by genetic engineering.
- ◆ Development of microbial processes for biotransformation using microbial, biochemical and genetic techniques.
- ◆ Development of bioreactors for laboratory and for industrial purposes.
- ◆ Reaction and process engineering techniques to obtain low molecular weight metabolites.
- ◆ Synthesis of chiral molecules and active substances using enzymes and chemical reactions.
- ◆ Signal transduction and ion transport in neuronal and non-neuronal cells.
- ◆ Structural studies of proteins using X-ray crystallography, NMR-spectroscopy and other spectroscopic techniques.
- ◆ Development of cellular systems to rapidly screen pharmacological and therapeutic substances.
- ◆ New applications for bacterial enzymes.
- ◆ New cell culture techniques.

Twenty copies of the Jointly Agreed Collaborative research project on specific format would be received by the Department of Biotechnology. Research proposals will be peer-reviewed in India and Germany and approved research projects would be supported appropriately on Indian and German side to meet research costs and other resources. The Research projects would be implemented subject to necessary clearances from the Government and laws and regulations of the host and sponsoring countries. Indian investigators interested in establishing collaborative research projects with German scientists should contact for format and submission of projects:

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