

AFTER 17 YEARS GOVERNMENT OF INDIA RECOGNIZES GENO-CLUSTER BIOINFORMATICS INDIGENOUS PRODUCT IS A SUCCESS STORY IN THE COUNTRY AND THE MINISTER LAUNCHED THE SITE

http://techindiacsir.anusandhan.net/online/Control.do?_main=488t3s

<http://techindiacsir.anusandhan.net/online/Control.do>



India's Success Story

Genocluster with four softwares: PLHost, SeaPath, Proteome Kalkulator and GeneDcfer

Institute: **CSIR-IGIB** | Category: **Bioinformatics**



GenoCluster: The software package includes a number of stand-alone software tools namely, Gene 'D'cfer, Proteome Kalkulator and SeaPath. Gene 'D'cfer is a gene prediction software to determine gene candidates among all possible ORF's of a given DNA sequence by using a peptide library and an artificial neural network.

Proteome kalkulator is a powerful computational application developed for complete genome sequence analysis of model organism. It allows simultaneous study of several genomes by performing set theory operations like union, intersection, difference and inverse. The characteristic feature of the tool is that it carries out multiple analyses on a wide range of bacterial strains. SeaPath is a unique software tool specially designed for the prediction of virulent proteins. It focuses on identifying adhesins or adhesin like proteins from newly sequenced genomes. It is capable of identifying potential targets (bacterial and viral surface antigens/adhesin) for new vaccine formulations and developing therapeutics against drug-resistant pathogens.

Preparation of Allergen Extracts useful in Diagnosis and Therapeutics of Allergic Disorders

Institute: **CSIR-IGIB** | Category: **Affordable Healthcare**



CSIR- **IGIB** has developed the diagnostics for allergic disorders. The technology has been commercialized. The know how has allowed to diagnose and treat more than one million patients of allergic disorders throughout India at very affordable cost.

Institute: **CSIR-IGIB** | Category: **Bioinformatics**



A unique software tool designed for the prediction of virulent proteins (Adhesins). MAAP: Malarial Adhesin species specific prediction software.