

BIOINFORMATICS TRAINING CALENDAR

2007
2008

BIOINFORMATICS

TRAINING

CALENDAR

2007-2008



सत्यमेव जयते

Department of Biotechnology

Ministry of Science & Technology

Govt. of India

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FOREWORD

Bioinformatics is setting a new pace for biotechnology research by reducing the lead time for various processes involved in the chain of biotechnology research and developments like assignment of the gene/ protein function, locating of the similar gene sequences in different organisms, selection and online testing of the potential drug targets and so on. Growth of bioinformatics has accelerated particularly during the last decade due to path breaking advancement in biology and new technologies that produce huge data like high throughput full genome sequencing projects including the human genome and other genome projects. The data mining and analysis of such large data and extract of knowledge from this data is being made possible only with the help of new software tools and computational intensive techniques. The researchers need to learn and use all new technological developments which are taking place in bioinformatics to solve complex biological problems leading to advancement in health care and crop improvement systems to facilitate overall growth and improvement.

The Department of Biotechnology, Govt. of India has established a nationwide bioinformatics network in India namely Biotechnology Information System Network (BTISnet) in 1987. The main purpose of this network is to harness the scientific knowledge for rapid advancement in biotechnology and sustainable utilization of the biological resources. Since bioinformatics is an important area, its usage has become inevitable to the research community who are engaged in molecular biology and biotechnology. In order to impart training to the researchers and research scholars with innovative development in bioinformatics, the Bioinformatics centres under the BTISnet are organizing various short term training courses during 2007-08.

Over One hundred twenty such selective trainings have been planned for this year and are listed in this publication. The trainings were evolved by understanding the current demand and I'm sure these short term courses will be highly useful for understanding various latest developments in different fields of Bioinformatics. The publication is also accessible from our website <http://www.btisnet.gov.in>.

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PREFACE

The Biotechnology Information System Network (BTISnet) is a major distributed bioinformatics network established by the Department of Biotechnology, Govt. of India in the year 1987. The network spread across the country with various subject specialization in biotechnology. Large information resources have been collated and developed as databases including several useful software packages for biotechnology applications. The network provides biotechnology information services, trained human resources and computational facilities to R&D, Educational and industrial organizations.

The network has been geared up to undertake advanced research in frontier areas of biotechnology with the intensive application of bioinformatics, develop world class human resource in bioinformatics, establish effective academia-industry interface, pursue and promote international cooperation with leading institutions, organizations and to create world class platforms for technology development, transfer and commercialization.

Human resource development in computational biology and bioinformatics is an important activity for effective sustenance of this emerging area. For meeting the need of trained bioinformatics professionals, long term courses are being dealt by several reputed Universities and institutions, which are as part of this programme. The BTISnet centres are organizing several short term training/ workshop programmes in several areas of this subject, towards offering exposure, hands on intensive training in the systems biology, applications in medical, agriculture, genomics and proteomics. We take this opportunity to thank all our coordinators of BTISnet centres for their valuable inputs and the cooperation extended for bringing out this publication. We do believe that this publication will be highly useful to the target groups. The electronic version of this publication is also available on <http://www.btisnet.gov.in>.

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Advanced Centre for Treatment, Research (ACTREC) & Education in Cancer

Training Code: [ACTREC-01]

Title	:	Applications in Bioinformatics
Date (from ___ to ___)	:	January 17-18, 2008
Duration (in number of days):	:	Two days
Subject Area (As per List enclosed)	:	Database and data mining

OBJECTIVES: Increasing the awareness about usefulness of bioinformatics tools and importance of databases in contemporary biomedical research.

CONTENTS: Bioinformatics as a tool; Nucleotide sequence generation and annotation; Organization of a database; development and use of a database (using an in house developed database); introduction to biostatistics; proteomics.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures/ Demo/ Hands on session/ Special Lecture.

LEVEL OF PARTICIPANTS : University teachers/Doctoral students

PREREQUISITES : Master Degree/ Ph.D. in Biological sciences; Familiarity to computer use.

NUMBER OF PARTICIPANTS : 15

(Boarding & lodging arrangements etc. : Not available

Any other relevant information, if any

REGISTRATION FEE (if any): Rs. 500.00

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		

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College of Veterinary Science, AAU, Guwahati

Training Code: [AAUCVS-01]

Title	: Bioinformatics tools & their application in biological research
Date	: September 5-8, 2007
Duration:	: 4 days
Subject Area (As per List enclosed)	: 1. Bioinformatics in Medical Sciences 2. Bioinformatics in Agriculture/Plant Sciences 3. Bioinformatics in Environment and Biodiversity

OBJECTIVES: To provide hands on training on bioinformatics tools and databases and to familiarize the researchers with its application indifferent fields of biological researches.

CONTENTS: Bioinformatics web resources & tools, creation of biological database, online databases and retrieval of biological information; introduction to genomics & proteomics, creation and management of digital library

METHODOLOGY : Lectures/ Demonstration and hands-on sessions

LEVEL OF PARTICIPANTS : Teachers, researchers and Ph.D. scholars

PREREQUISITES : Basic knowledge of computer

NUMBER OF PARTICIPANTS : 16

Boarding & lodging arrangements etc. Limited number of participants may be accommodated in the college guest house against payment

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 500.00	Rs. 1000.00

Training Code: [AAUCVS-02]

Title	: Molecular biology and Bioinformatics tools and their applications
Date	: December 17-19, 2007
Duration	: 3 days
Subject Area (As per List enclosed)	: 1. Bioinformatics in Medical Sciences 2. Bioinformatics in Agriculture/ Plant Sciences 3. Bioinformatics in Environment and Biodiversity

OBJECTIVES: To provide hands on training on molecular biology and bioinformatics tools and their applications in biological research to post graduate students of biological, veterinary, medical and agricultural sciences.

CONTENTS: Molecular Biology Tools and Methods, Animal cell culture techniques, Bioinformatics web resources & tools, Online databases & retrieval of biological information.

METHODOLOGY : Lectures/ Demonstration and hands-on sessions

LEVEL OF PARTICIPANTS : Researchers and Postgraduate students from the disciplines of biology, veterinary, medical and agricultural sciences

PREREQUISITES : Basic knowledge of computer

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. : Limited number of participants may be accommodated in the college guest house against advance booking and payment

Any other relevant information, if any

REGISTRATION FEE (if any):

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ALAGAPPA UNIVERSITY, KARAIKUDI**Training Code:** [AGU-01]

Title	: Workshop on Genome & Proteome Analysis
Date (from - to -)	: January 07-09, 2008
Duration (in number of days):	: Three Days
Subject Area (As per List enclosed)	: Genome & Proteome Analysis

OBJECTIVES: To impart theoretical and practical training in the area of genomics and proteomics to young and emerging academicians/scientists/ research scholars with life sciences background.

CONTENTS: 1.Tools for Genome Analysis 2. Functional Genomics 3. Proteome Analysis 4. Application of Bioinformatics Tools for Genome and Proteome Analysis(Gene Sequence assembly/BLAST/Restriction Mapping/ORF finding/ Sequence Retrieval/Homology Searches/Multiple sequence alignment/Phylogenetic analysis/Proteomic tools/structure predictions/motif analysis/ etc.,

METHODOLOGY (Lectures,Demos,Hands : Special Lectures and Hands on on Session, Workshop/Seminar/Symposia etc.) Training

LEVEL OF PARTICIPANTS : Young Academicians/Scientists/
Research Scholars and PG Students

PREREQUISITES : Life Sciences Back Ground

NUMBER OF PARTICIPANTS : 25

Boarding & lodging arrangements etc. : Boarding and Lodging will be arranged

Any other relevant information, if any: Nil

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 1500	Rs. 2100

Contact Address :**Dr. S. KARUTHA PANDIAN**, Coordinator,**Phone** : 04565-225215**Fax** : 04565-225202**E-mail** : sk_pandian@rediffmail.com**Web-Address** : www.alagappabiotech.org

Aligarh Muslim University

Training Code: [AMU-01]

Title	: In-silico molecular modeling and drug design
Date (from ___ to ___)	: February 19-21, 2008
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Computer Basic and applications in bioinformatics

OBJECTIVES: To give training in molecular modeling and bioinformatics tools

CONTENTS: Molecular modeling, molecular dynamics, online and off line software and databases.

METHODOLOGY (Lectures, Demos, : Lectures, Demos, Hands on sessions
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Scientists, researchers, M.D. and
Ph.D. students.

PREREQUISITES : Basic knowledge of computers

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. : As per request

Any other relevant information, if any: Nil

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		
	Rs. 250.00	Rs. 250.00

Contact Address :

Prof. M. SALEEMUDDIN, Coordinator

Phone : 0091-571-2720388 Fax : 0091-571-2721776 E-mail : alg_btisamua@sancharnet.in Web-Address : http://www.bioinformaticsamu.tripod.com/
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Anna University, Chennai**Training Code:** [AU-01]

Title	: Workshop on Sequence Analysis and Molecular Simulations
Date (from ___ to __)	: 5th to 8th December, 2007
Duration (in number of days):	: 4 days
Subject Area (As per List enclosed)	: Computational Biology – Molecular Simulations

OBJECTIVES: To give training in molecular Simulations and Bioinformatics tools to college teachers and researchers.

CONTENTS: Biological Sequence Analysis, Molecular Simulations, Molecular Dynamics and Docking

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Projects) : Lectures, Demos, Hands on Session & Projects

LEVEL OF PARTICIPANTS : College Professors, Lecturers, Post Doctoral Candidates, Research Scholars

PREREQUISITES : NIL

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. : NIL

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 1500/-	NIL

Contact Address :**Prof. P. GAUTAM**, Coordinator**Phone** : 044-22350772**Fax** : 044-22350299**E-mail** : tkothai@yahoo.com,
tkothai@annauniv.edu**Web-Address** : <http://www.annauniv.edu/biotech>

Banasthali Vidyapith, Banasthali**Training Code:** [BANV-01]

Title	: Biological Databases & Data mining
Date (from ___ to ___)	: 22nd Dec. to 24th Dec., 2007
Duration (in number of days):	: 3 Days
Subject Area (As per List enclosed)	: Databases & Data mining

OBJECTIVES:

1. Introduction and retrieval of biological databases.
2. To promote awareness and skills, using online and offline information retrieval using internet and CD ROMs databases and scientific software and their applications in teaching and research in Biological Sciences.
3. To develop the skills of database searching.
4. To provide training in the latest developments in biological databases

CONTENTS:

Theory lectures and practical demonstrations of the three days workshop will be based on the following themes:

- Introductions to biological databases.
- Biological resources in the cyber space.
- Retrieval of data from biological databases.
- Access to online journals.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : The three days workshop will include theory lectures and live practical demonstrations on biological databases/ resources on Internet by the experts as well as handouts on sessions.

LEVEL OF PARTICIPANTS : Ph.D. and post-Ph.D. students, college and university teachers & scientists in research institutions.

PREREQUISITES : -None-

NUMBER OF PARTICIPANTS : Maximum 30

Boarding & lodging arrangements etc. : Will be arranged on sharing basis in the guest house.

Any other relevant information, if any: -Nil-

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 500/-	Rs. 1000/-
SAARC Countries	Rs. 500/-	Rs. 1000/-
Other Countries	Rs. 1000/-	Rs. 1500/-

Contact Address :
Professor VINAY SHARMA, Coordinator

Phone : 01438-228302, 01438-228341

Ext. : 380 (O)

Fax : 01438-228365

E-mail : vinaysharma30@yahoo.co.uk,
ban_bioinfo@yahoo.com

Web-Address : www.banasthali.org

Bharathiar University, Coimbatore**Training Code:** [BU-01]

Title	: New Trends in Bioinformatics
Date	: August 2007 (Date not finalized)
Duration (in number of days):	: Two days
Subject Area (As per List enclosed)	: Computational Biology Evolution and Phylogenetics Database and data mining Bioinformatics in Environment and Biodiversity

OBJECTIVES: To familiarize researchers in the filed of Bioinformatics**CONTENTS:** To be given during the workshop**METHODOLOGY** (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Workshop cum training through lectures, demos and hands on training**LEVEL OF PARTICIPANTS** : Researchers /Faculty/students**PREREQUISITES** : Basic knowledge in computer science or Biology**NUMBER OF PARTICIPANTS** : 20**Boarding & lodging arrangements etc. :** NIL**Any other relevant information, if any:** NIL**REGISTRATION FEE (if any):**

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	India-Rs.1000/ SAARC- USD.500/- Other countries USD.500/-	Accommodation charge varies.

Training Code: [BU-02]

Title	: Industrial Bioinformatics
Date	: February 2008 (Date not finalized)
Duration (in number of days):	: Two days
Subject Area (As per List enclosed)	: Industry academia partnership

OBJECTIVES: Discuss relationship, which will benefit the students, university and industry.

CONTENTS: To be given during the workshop

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Workshop cum training through lectures, demos and hands on training

LEVEL OF PARTICIPANTS : Industry/company/Researchers /Faculty/students

PREREQUISITES : NIL

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. : NIL

Any other relevant information, if any: NIL

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)	India-Rs.1000/ SAARC-Rs.2000/ Other countries Rs.3000/	Accommodation charges varies.

Contact Address :

Dr. P. SHANMUGHAVEL, Coordinator

<p>Phone : 091-422-2422655(O) 091-422-2642840 (R)</p> <p>Fax : 091-422-2422387</p> <p>E-mail : shanvel_99@yahoo.com</p> <p>Web-Address : www.bu.ac.in</p>

Bharathidasan University, TiruchirappalliTraining Code: *[BDU-01]*

Title	: Workshop on Bioinformatics for Cyanobacteriologists (WOBIC)
Date	: 28th January to 31st January
Duration (in number of days):	: 4 Days
Subject Area (As per List enclosed)	: Bioinformatics for Cyanobacteriologists

OBJECTIVES: Man Power Training on Gene Prediction, Comparative Genomics, Data mining in Cyanobacteria

CONTENTS: Text and Data mining, Analysis at Nucleotide and Protein Level, Phylogenetic studies, Protein Visualization in cyanobacteria.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos, Hands on Session, Workshop

LEVEL OF PARTICIPANTS : Researchers

PREREQUISITES : Research interested in cyanobacteriology

NUMBER OF PARTICIPANTS : 12

Boarding & lodging arrangements etc. : Will be provided freely

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation

Contact Address :

Dr. L. UMA, Coordinator

Phone : 91-0431 2407082

Fax : 91-0431 2407084

E-mail : lumaprabakar@yahoo.com

Web-Address : www.nfmc.res.in

Banaras Hindu University, Varanasi**Training Code:** [BHU-01]

Title	: Computer Basics & Applications in Bioinformatics
Date	: 4th to 6th June, 2007
Duration	: 03 days
Subject Area (As per List enclosed)	: Database and data mining

OBJECTIVES: To Create awareness among participants for use of Bioinformatics tools in their research works.

CONTENTS: Introduction to Bioinformatics and Biotechnology, Internet, Creating Database, Online search Databases.

METHODOLOGY : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : Research Scientists/Ph.D. Students

PREREQUISITES : Must have basic knowledge of Computer.

NUMBER OF PARTICIPANTS : 15

Boarding & lodging arrangements etc. : Shall be arranged

Any other relevant information, if any : Nil

REGISTRATION FEE (if any) : Nil

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	NA	NA

Training Code: [BHU-02]

Title	: Bioinformatics and Sequence Analysis
Date	: 15th to 17th October, 2007
Duration	: 03 days
Subject Area (As per List enclosed)	: Genome & Proteome analysis

OBJECTIVES: To Create awareness among participants for use of Bioinformatics tools in their research works.

CONTENTS: Introduction to Bioinformatics sequence, Search tools, BLAST & FASTA etc.

METHODOLOGY : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : Research Scientists/Ph.D. Students

PREREQUISITES : Must have basic knowledge of Computer.

NUMBER OF PARTICIPANTS : 15

Boarding & lodging arrangements etc.: Shall be arranged

Any other relevant information, if any: Nil

REGISTRATION FEE (if any) : Nil

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	NA	NA

Training Code: [BHU-03]

Title	: Bioinformatics and Microbial Diversity Analysis
Date	: 7th to 9th January, 2008
Duration	: 03 days
Subject Area (As per List enclosed)	: Bioinformatics in Environment and Biodiversity

OBJECTIVES: To Create awareness among participants for use of Bioinformatics tools in their research works.

CONTENTS: Introduction to Bioinformatics Microbial Diversity.

METHODOLOGY : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : Research Scientists/Ph.D. Students

PREREQUISITES : Must have basic knowledge of Computer.

NUMBER OF PARTICIPANTS : 15

Boarding & lodging arrangements etc. : Shall be arranged

Any other relevant information, if any : Nil

REGISTRATION FEE (if any) : Nil

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	NA	NA

Contact Address :

Dr. ASHOK KUMAR, Coordinator

Phone : 0542-2368364

Fax : 0542-2368693

E-mail : coordinator_bhu@rediffmail.com

Barkatullah University, Bhopal

Training Code: [BUB-01]

Title	: Data resource in Life science and Retrieval
Date (from ___ to ___)	: 10th Sep 2007 to 15th Sep 2007
Duration (in number of days):	: 6 Days
Subject Area (As per List enclosed)	: Database and data mining

OBJECTIVES:

To make the students aware about the available database resources
To clear the concept of database and data storage
To increase the skill of database retrieval

CONTENTS:

1. Basic Concept of DBMS and Need of DBMS
2. Heterogeneity of Biological Data and Classification of Biological Databases
3. Primary and Secondary Sequence Databases, file format and Retrieval
4. Expression databases file format and retrieval
5. Primary and Secondary Structure Database, file format and retrieval
6. Metabolic pathway, Enzyme and other databases

METHODOLOGY (Lectures, Demos, : 2 hour Lectures + Demo,
Hands on Session, Workshop/Seminar/ 3 Hours hands on session using
Symposia etc.) the Center developed tutorial

LEVEL OF PARTICIPANTS : Life science Graduate and Post Graduate Students, Research Scholars

PREREQUISITES : Basic Computer Operations and Internet

NUMBER OF PARTICIPANTS : 30

Boarding & lodging arrangements etc. : Boarding and Lodging will be made available on request

Any other relevant information, if any Nil

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 500.00	Rs. 2000.00

Training Code: [BUB-02]

Title	: Applications of Computation Biology
Date (from ___ to __)	: 22nd Oct 2007 to 27th Oct 2007
Duration (in number of days):	: 6 Days
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES :

1. To introduce the role of Computational Biology
2. To Overview the various algorithms used for Biological data analysis
3. To impart the training of working with the data analysis tools

CONTENTS:

1. Introductory Computational Biology
2. Algorithms and tools for Sequence analysis
3. Algorithms and tools for Sequence Comparison-I
4. Algorithms and tools for Sequence Comparison-II
5. Algorithms and tools for Multiple Sequence Alignment
6. Algorithms and tools for Phylogenetic analysis

METHODOLOGY (Lectures, Demos, Hands on: 2 hour Lectures + Demo, 3 Hours Session, Workshop/Seminar/Symposia etc.) hands on session using the Center developed tutorial

LEVEL OF PARTICIPANTS : Life science Graduate and Post Graduate Students, Research Scholars

PREREQUISITES : Basic Computer Operations, Internet operations, Knowledge of Statistics.

NUMBER OF PARTICIPANTS : 30

Boarding & lodging arrangements etc.) Boarding and Lodging will be made available on request

Any other relevant information, if any Nil

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		
India	Rs. 500.00	Rs. 2000.00

Training Code: [BUB-03]

Title	: Study of Biomolecule Structures using the visualizing software tools
Date (from ___ to ___)	: 7th Jan 2008 to 12th Jan 2008
Duration (in number of days):	: 6 Days
Subject Area (As per List enclosed)	: Structural Bioinformatics

OBJECTIVES:

1. To introduce the role of Bioinformatics
2. Training of basic operations in Bioinformatics

CONTENTS:

1. Introduction to Structural Bioinformatics
2. Structure Databases and Data Retrieval
3. Introduction Molecule Visualizing Software tools
4. Introduction to RasWin
5. Introduction to spdbv-I
6. Introduction to spdbv-II

METHODOLOGY (Lectures, Demos, Hands on: 2 hour Lectures + Demo, 1 Hours hands on session using the Center developed tutorial
Session, Workshop/Seminar/Symposia etc.)

LEVEL OF PARTICIPANTS : Life science Graduate and Post Graduate Students, Research Scholars

PREREQUISITES : Basic Computer Operations, Internet operations

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc.) : Boarding and Lodging will be made available on request

Any other relevant information, if any : Nil

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 500.00	Rs. 2000

Contact Address :
Dr. ANIL PRAKASH, Coordinator

Phone : 755-2677748-102
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E-mail : ap_btsbpl@sancharnet.in OR
info_officer@sancharnet.in
Web-Address : <http://www.bioinfobubpl.nic.in>

Biotech Consortium India Limited, New Delhi**Training Code:** [BCIL-01]

Title	: Commercialization of Biotechnology
Date (from ___ to ___)	: February 22, 2008
Duration (in number of days):	: One day
Subject Area (As per List enclosed)	: Commercial aspects of biotechnology (Technology transfer, IPR, licensing etc.)

OBJECTIVES: To create awareness among representatives from research institutions, industries, academia, and PG students to commercial aspects including various issues involved in technology and know-how evaluation and transfer, critical components of drafting comprehensive license agreements and contracts and maximizing intellectual assets through well planned IPR strategies, licensing and regulatory requirements and financing options.

CONTENTS: Business opportunities and key issues concerning commercialization of biotechnology including technology evaluation, maximizing intellectual assets through patenting, regulatory requirements, financing options, etc.

METHODOLOGY (Lectures, Demos, Hands on: Presentations by experts followed by panel discussions
Session, Workshop/Seminar/Symposia etc.)

LEVEL OF PARTICIPANTS : Senior representative from research institutions, industry, academicians, financial institutions, government deptts. and PG students

PREREQUISITES : Should be actively engaged in biotechnology research/development and commercialization

NUMBER OF PARTICIPANTS : 70-100

Boarding & lodging arrangements etc. : To be arranged by the participants at their own

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	To be decided	Not applicable

Contact Address :**Dr. PURNIMA SHARMA**, Coordinator**Phone** : 011-2321 9064 – 67**Fax** : 011-2321 9063**E-mail** : bcildelhi@vsnl.com**Web-Address** : www.bcil.nic.in

www.biotech.co.in

Biotech Park in Biotechnology City, Lucknow

Training Code: [BP-01]

Title	: Structural Bioinformatics
Date	: 9th – 10th June, 2007
Duration	: 2 days
Subject Area (As per List enclosed)	: Structural based bioinformatics approaches / Bioinformatics & Genomics / Proteomics / Database / Software developments in Biotechnology

OBJECTIVES: To give an in-depth idea of the role of Structural Bioinformatics in Molecular Modeling, Molecular Mechanics and Docking.

CONTENTS: Structure based Bioinformatics approaches in Molecular Modeling, Docking, Gene and Protein Structure Prediction, Introduction to Biomolecules & structure determination, 2D & 3D Structural Database and data retrieval, Molecular Designing etc.

METHODOLOGY : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : Scientists, Research scholars, Post graduate students in biological / chemical / medical / engineering discipline.

PREREQUISITES : Minimum science graduate, Basic knowledge of computer operation.

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. : No

Any other relevant information, if any: --

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 1000/-	—

Training Code: [BP-02]

Title	: Application in Bioinformatics with Reference to Genomics & Proteomics
Date	: 13th – 15th September, 2007
Duration	: 3 days
Subject Area (As per List enclosed)	: Bioinformatics & Health / Bioinformatics & Genomics / Proteomics / Bioinformatics & Driving Drug Discovery

OBJECTIVES: To generate awareness among students and researchers on the Genomics and Proteomics researches and bioinformatics approaches for drug development.

CONTENTS: Protein structure prediction tools, Genome analysis tools, Protein modeling tools, Dynamics of protein solvents, Molecular Simulation, General approaches for drug development, In-silico drug development, micro array techniques, Pharmacogenomics.

METHODOLOGY : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : Scientists, Research scholars, Post graduate students in biological / chemical / medical / engineering discipline.

PREREQUISITES : Minimum science graduate.

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. : No

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		
India	Rs. 2000/-	—

Training Code: [BP-03]

Title	: Principals and applications of Bioinformatics in Biotechnology
Date	: 10th – 11th December, 2007
Duration	: 2 days
Subject Area (As per List enclosed)	: Bioinformatics & Health / Bioinformatics & Genomics / Proteomics / Database / Software development in Biotechnology

OBJECTIVES: To provide a platform to young researcher and students about advancement of bioinformatics tools and detail discussion on applications of bioinformatics tools in different fields of biotechnology.

CONTENTS: Bioinformatics tools such as whole genome sequence assembly, finishing genome sequence annotation of genome sequence for gene prediction and other structural elements, proteomics tools, protein structure and function analysis, linkage of biotechnology with bioinformatics, tools for retrieval of biological information including genome information and importance in biotechnology.

METHODOLOGY : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : Scientists, Research scholars, Post graduate students in biological / chemical / medical / engineering discipline.

PREREQUISITES : Minimum science graduate.

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. : No

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 1000/-	--

Training Code: [BP-04]

Title	: Bioinformatics – Insilico study of DNA and Protein
Date	: 7th – 8th March, 2008
Duration	: 2 days
Subject Area (As per List enclosed)	: Bioinformatics & Health / Bioinformatics & Genomics / Proteomics / Database / Software development in Biotechnology

OBJECTIVES: To impart knowledge about the importance of readily available bioinformatics software tools, how to access, utilize and implement for the benefit of biotechnology, analysis of whole genomes and proteome.

CONTENTS: Bioinformatics tools such as whole genome sequence assembly, finishing genome sequence, annotation of genome sequence for gene prediction and other structural elements, proteomics tools, protein structure and function analysis, linkage of biotechnology with bioinformatics.

METHODOLOGY : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : Scientists, Research scholars, Post graduate students in biological / chemical / medical / engineering discipline.

PREREQUISITES : Minimum science graduate.

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. : No

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 1000/-	--

Contact Address :**Dr. P.K. SETH**, Coordinator**Phone** : 0522-2365050 , 4012076 / 77**Fax** : 0522-4012081**E-mail** : info@biotechcitylucknow.org**Web-Address** : www.biotechcitylucknow.org

Birla Institute of Technology, Mesra, Ranchi

Training Code: [BIT-01]

Title	: National workshop on Functional Genomics of Prokaryotes
Date (from ___ to __)	: August 6-11, 2007 or alternatively on September 10-15, 2007
Duration (in number of days):	: 6 days
Subject Area (As per List enclosed)	: Genome and Proteome Analysis

OBJECTIVES:

1. To provide an exposure to the current approaches which are being used in functional genomics of prokaryotes.
2. To impart knowledge about the importance of bioinformatics software tools; viz. how to access, utilize and implement for the benefit of proteomics and genome analysis of whole prokaryote genomes.

CONTENTS: Basics of Genome Organization, Information resources in Bioinformatics, Database searching, strategies of genome sequencing, Genome assembly, Gene identification methods, Features identification, Genome annotation, Comparative Genomics, Genomics application in Drug Discovery, Proteomics tools, protein structure and function analysis, linkage of biotechnology with bioinformatics.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demonstration and Hands on session

LEVEL OF PARTICIPANTS : Academician and scientist, Research Scholars

PREREQUISITES : Preliminary knowledge about biotechnology especially molecular biology and computational techniques

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. : In university guest house/ hostel on payment basis.

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 2000/-	Rs. 3000/-

Training Code: [BIT-02]

Title	: National conference Food Biotechnology: A Bioinformatics Approach
Date (from ___ to ___)	: January 10-12, 2008
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Bioinformatics in Agriculture/ Plant Sciences

OBJECTIVES:

1. To provide a platform to discuss the recent advancement on agriculture and food biotechnology. Bioinformatics tools would be integrated while generating databases or designing any metabolic pathways in food biotechnology among various BTISnet centres and other organizations engaged on similar activities..
2. To impart knowledge about the importance of bioinformatics software tools; viz. how to access, utilize and implement for the benefit of food biotechnology research.

CONTENTS: 1. Basics of food biotechnology, Probiotics, Biotechnological approaches to enhance research, Innovations and production pertinent to food biotechnology, 2. Molecular, cellular and sub-cellular bioinformatics including engineering of metabolic pathways, 3. Proteomics tools, food protein structure and function analysis, 4. Linkage of food biotechnology with bioinformatics, and followed by 5. Brain, stroming session and open discussion.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures and Demonstration

LEVEL OF PARTICIPANTS : Academician and Scientist, Research Scholars

PREREQUISITES : Preliminary knowledge about food biotechnology especially molecular biology and computational techniques

NUMBER OF PARTICIPANTS : 100

Boarding & lodging arrangements etc. : In university guest house/ hostel on payment basis.

Any other relevant information, if any :

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 800/-	Rs. 1100/-

Contact Address :

Dr. A. S. VIDYARTHI, Coordinator

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E-mail : asvidyarthi@bitmesra.ac.in
btis_bit@bitmesra.ac.in

Web-Address : www.bitmesra.ac.in

Bose Institute

Training Code: [BI-01]

Title	: Protein Folding and Bioinformatics
Date (from ___ to ___)	: March 6 – 7, 2008
Duration (in number of days):	: 2 days
Subject Area (As per List enclosed)	: Structural Bioinformatics

OBJECTIVES: To demonstrate how bioinformatics has been used to understand protein structure and folding.

CONTENTS: There will be lectures on both the experimental aspects of protein folding and theoretical studies including bioinformatics to understand the folding and stability of proteins

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Mostly lectures, with some demonstrations

LEVEL OF PARTICIPANTS : Researchers, Scientists, Academicians

PREREQUISITES : About to complete M.Sc., or enrolled in Ph.D.

NUMBER OF PARTICIPANTS : 45

Boarding & lodging arrangements etc. : Available on request and on payment

Any other relevant information, if any:

REGISTRATION FEE (if any) : Rs.500/- for academic organization and Rs. 1500/- for industry.

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		

Contact Address :
Prof. PINAK CHAKRABARTI, Coordinator

Phone : 033-2355-4766/2816
Fax : 033-2355-3886
E-mail : dicdbt@boseinst.ernet.in
Web-Address : <http://boseinst.ernet.in/bic>

Calcutta University, Kolkata

Training Code: [CU-01]

Title	: An Introduction to Perl
Date (from ___ to ___)	: August 21-23, 2007
Duration (in number of days):	: 3
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES: To familiarize and to be able to write Perl codes for problems related to Computational Biology and Bioinformatics.

CONTENTS: Basic Commands. Algorithm translation. Direct Method training

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos and Hands-on session

LEVEL OF PARTICIPANTS : Research Students

PREREQUISITES : Minimal exposure to any programming language

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc.) Participants will have to arrange

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 750/- for Indian Participants only.	Limited to Indian Participants.

Training Code: [CU-02]

Title	: An Introduction to System Biology
Date (from ___ to __)	: January 8-10, 2008
Duration (in number of days):	: 3
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES: Basic introduction to System Biology.

CONTENTS:

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos and Hands-on session

LEVEL OF PARTICIPANTS : Research Students

PREREQUISITES : No prerequisites

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. : Participants will have to arrange

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 1000/- for Indian Participants only.	Limited to Indian Participants.

Contact Address :

Dr. SUBHASIS MUKHOPADHYAY, Coordinator

Phone : (0) 94331 07434 (SM)
94334 28324 (SK)

Fax :

E-mail : skbmbg@caluniv.ac.in /
smbmbg@caluniv.ac.in

Web-Address :

Central Agricultural Research Institute, Port Blair

Training Code: [CARI-01]

Title	: Bioinformatics and Sequence Analysis
Date	: 21st – 22nd September, 2007
Duration	: 2 days
Subject Area (As per List enclosed)	: Bioinformatics and Genomics / Proteomics

OBJECTIVES: To create awareness among participants for the use of Bioinformatics tools in genome and proteome analysis which will help enable them in their research work.

CONTENTS: Introduction to sequence analysis tools BLAST, FASTA, HMMER, Gold Miner, Accelrys Gene 2.5 and Vector NTI Advance.

METHODOLOGY : Lectures, Demos, Hands on Sessions

LEVEL OF PARTICIPANTS : Scientists, Research Scholars, Students.

PREREQUISITES : Must have basic knowledge of computer.

NUMBER OF PARTICIPANTS : 25

Boarding & lodging arrangements etc. :

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	500	1000
SAARC Countries	US\$ 75	US \$ 150
Other Countries.	US\$ 150	US\$ 300

Training Code: [CARI-02]

Title	: Molecular Modeling and Protein Docking.
Date	: 20th – 23rd February, 2008
Duration	: 4 days
Subject Area	: Bioinformatics and Molecular Modeling

OBJECTIVES: Impact training to participants on homology modeling of proteins and to predict protein ligand interaction.

CONTENTS:

1. Use of software (Modeller 9.1, Accelrys Discovery Studio) for structural modeling of proteins.
2. Use of software (ICM Pro, HEX, ArgusLab) for predicting protein ligand interaction.

METHODOLOGY : Lectures, Demos, Hands on Sessions

LEVEL OF PARTICIPANTS : Scientists, Research Scholars, Students.

PREREQUISITES : Must have basic knowledge of computer.

NUMBER OF PARTICIPANTS : 25

Boarding & lodging arrangements etc. : Guest house, CARI

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
India	Rs. 750/-	Rs. 1500/-
SAARC Countries	US\$ 100	US\$ 200
Other Countries.	US\$ 200	US\$ 400

Contact Address :
Dr. M. BALAKRISHNAN, Coordinator

Phone : 03192-250436 (O),
09434283615 (Mobile)

Fax : 03192-251068/233281

E-mail : mbkrishnan@hotmail.com

Web-Address : http://cari.res.in/Sub_DIC/index.html

CCS Haryana Agricultural University

Training Code: [CCSHAU-01]

Title	: Biological Databases, Sequence and Phylogenetic Analysis in Plant Sciences (for PG students)
Date (from ___ to ___)	: December 25, 07 to January 5, 2008
Duration (in number of days):	: 10 days
Subject Area (As per List enclosed)	: Bioinformatics in Agriculture/Plant Sciences

OBJECTIVES:

- To highlight the application of Bioinformatics in Plant Sciences
- To familiarize the use of Biological databases and sequence analysis in agricultural science
- To expose the students to some basic wet-lab biology experiments

CONTENTS:

- Biological databases
- Sequence analysis including alignment
- Phylogenetic analysis using Phylip and PAUP
- Wet-lab experiments for Bioinformatics students (Demo and/or hands on)

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demonstrations, Hands on Sessions

LEVEL OF PARTICIPANTS : PG Biological Sciences students

PREREQUISITES : Computer fundamentals

NUMBER OF PARTICIPANTS : 15

Boarding & lodging arrangements etc. Would be arranged on prior request

Any other relevant information, if any: -

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 1000	Rs. 1000+actuals

Contact Address :**Dr. SUDHIR KUMAR**, Coordinator**Phone** : 01662-289407**Fax** : 01662-284310**E-mail** : sudhir@hau.ernet.in**Web-Address** : <http://hau.ernet.in>

Ch. Charan Singh University, Meerut**Training Code:** [CCSU-01]

Title	: Databases, data mining and retrieval of information
Date (from ___ to ___)	: October 8-9, 2007
Duration (in number of days):	: Two days
Subject Area (As per List enclosed)	: Database and data mining

OBJECTIVES: To familiarize participants with available nucleic acid and protein databases, and methods to access, search and retrieve information from databases

CONTENTS: Theory lectures, practical demonstrations and hands on training will cover (i) Introduction to biological databases; (ii) In silico mining of databases, and (iii) Retrieval of information from databases

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Workshop including lectures, demonstrations and hands on training

LEVEL OF PARTICIPANTS : Post M. Sc./Ph. D.

PREREQUISITES : Knowledge of computer operations

NUMBER OF PARTICIPANTS : Fifteen (15)

Boarding & lodging arrangements etc. If necessary, arrangements for food and lodging will be made

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 500/-	In case accommodation is provided, it will be charged separately

Contact Address :

Dr. H. S. BALYAN, Coordinator BIF,

Phone : 0121-2768195 (O);
0121-2763564 (R);
09412515497 (Cell)

Telefax : 0121-2768195

E-mail : hsbalyan@rediffmail.com;
hsbalyan@gmail.com

Web-Address :

Central Institute of Freshwater Aquaculture, Bhubaneswar

Training Code: [CIFA-01]

Title	: Bioinformatics & Statistics in Aquaculture Research.
Date (from ___ to ___)	: 17th to 20th December, 2007
Duration (in number of days):	: 4 days
Subject Area (As per List enclosed)	: Bioinformatics & Statistics in Aquaculture Research

OBJECTIVES: To appraise researchers about the latest developments on applications of Bioinformatics and Statistics in aquaculture research.

CONTENTS: Explanatory Multivariate Data Analysis, Econometric Analysis, Computational Biology and Bioinformatics.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Workshop cum training through lectures, Demos and Hands on training.

LEVEL OF PARTICIPANTS : Researcher and development workers in Aquaculture/ Lifesciences/ Bioinformatics/ Allied Sciences.

PREREQUISITES : M.Sc in Bioinformatics/Allied Sciences/M.F.Sc.

NUMBER OF PARTICIPANTS : 25

Boarding & lodging arrangements etc. :

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs.1000/- (For students) Rs.1500/- (for others)	Extra Rs.12/- per day

Contact Address :**Dr. A. K. ROY**, Coordinator**Phone** : 0674-2465430**Fax** : 0674-2465407**E-mail** : cifa@ori.nic.in**Web-Address** : www.cifa.in

CSK Himachal Pradesh Krishi Vishvavidyalaya, Palampur

Training Code: [CSKHPKV-01]

Title	: Application of bioinformatics in agricultural/plant sciences
Date (from __ to __)	: 15th to 17th November, 2007
Duration (in number of days):	: Three days
Subject Area (As per List enclosed)	: Bioinformatics in Agriculture/Plant Sciences

OBJECTIVES : To create awareness among participants in the field of bioinformatics in Agriculture/ Plant Sciences and to familiarize them with the latest developments related to application of bioinformatics in agriculture.

CONTENTS : Introduction to Bioinformatics, applications of bioinformatics in Agriculture/Plant sciences, sequence analysis, comparative plant genomics etc.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/ Symposia etc.) : Lectures, Demonstrations, Hands on Sessions

LEVEL OF PARTICIPANTS : Scientists, Researchers, Scholars and Persons involved in the field of Bioinformatics.

PREREQUISITES : Must be familiar with computer.

NUMBER OF PARTICIPANTS : Twenty

Boarding & lodging arrangements etc. :

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	1000/-	-

Training Code: [CSKHPKV-02]

Title	: Retrieval and use of biological databases
Date (from ___ to ___)	: 20th to 22nd March., 2008
Duration (in number of days):	: Three days
Subject Area (As per List enclosed)	: Database and Data Mining

OBJECTIVES: To impart knowledge about the importance and use biological databases and online bioinformatics tools etc.

CONTENTS: Introduction to Bioinformatics, information resources and databases- NCBI, EMBI etc. and their annotations, data mining methods for biological databases.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/ Symposia etc.) : Lectures, Demonstrations, Hands on Sessions

LEVEL OF PARTICIPANTS : Scientists, Researchers, Scholars and Persons working in the field of Bioinformatics

PREREQUISITES : Must be familiar with computer and biology.

NUMBER OF PARTICIPANTS : Twenty

Boarding & lodging arrangements etc. :

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	1000/-	-

Contact Address :

Dr. T. R. SHARMA, Coordinator

Phone : 01894-230314
09418057601 (Cell Number)

Fax : 01894-230406

E-mail : sharmat88@yahoo.com
trsharma@hillagric.ernet.in

Web-Address : www.hillagric.ernet.in/education/coa/biotech/

Devi Ahilya University, Indore**Training Code:** [DAU-01]

Title	: Genome Data Analysis
Date (from ___ to ___)	: From 29th Oct 2007 to 2nd Nov 2007
Duration (in number of days):	: 05 Days
Subject Area (As per List enclosed):	: Genome & Proteome analysis

OBJECTIVES: To describe about the major techniques for whole genome analysis and deriving useful information from the data.

CONTENTS: Major prokaryotic and eukaryotic genomes available, Database & Software available for comparative genome analysis & Genome annotation.

METHODOLOGY (Lectures, Demos, : Lecture cum Hands on Training
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Post Graduate Students, Research
Scholars and Young Researchers.

PREREQUISITES : Preliminary knowledge of computer &
Internet.

NUMBER OF PARTICIPANTS : 25-30

Boarding & lodging arrangements etc.: University Guest House, DAVV,
Indore.

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 600/-	Accommodation fees will be charged from the participants as per actual. (As present Rs. 125/- per person per night)

Contact Address :
Prof. Dr. ANIL KUMAR, Coordinator,

Phone : +91-731-2470372, 2470373.
Fax : -2471012
E-mail : ak_sbt@yahoo.com, bioinfo@sancharnet.in
Web-Address : <http://www.davvbiotech.res.in>

**Dr. YS Parmar University of Horticulture &
Forestry, Nauni, Solan H.P.**

Training Code: *[YSPUHF-01]*

Title	: Bioinformatics and its Application in Plants Sciences
Date	: August 3 – 4, 2007
Duration	: 2 days
Subject Area (As per List enclosed)	: Bioinformatics in Agriculture/Plant Sciences

OBJECTIVES: To promote awareness of IT applications in Biological Sciences, Bioinformatics tools for genomic and proteomic analysis, hands on trainings in basic bioinformatics tools.

CONTENTS: Computer basics and applications, networking, biological databases, genomics and proteomics, sequence analysis tools.

METHODOLOGY : Lectures, Demonstrations and Practical Sessions.

LEVEL OF PARTICIPANTS : Scientists, research scholars, students and staff of Bioinformatics Centre.

PREREQUISITES : NIL

NUMBER OF PARTICIPANTS : 20

BOARDING & LODGING ARRANGEMENTS ETC. : On request.

REGISTRATION FEE : : Rs. 200/-

Training Code: [YSPUHF-02]

Title	: Introduction to Genomics and Proteomics
Date	: September 17 - 19, 2007
Duration	: 3 days
Subject Area (As per List enclosed)	: Genome & Proteome analysis

OBJECTIVES: To promote computers awareness and se participants/users to the latest development in computer applications.

CONTENTS: Genomics, Proteomics and the emerging concepts on Biotechnology and Bioinformatics.

METHODOLOGY : Lectures, demonstrations and hands on sessions.

LEVEL OF PARTICIPANTS : Scientists, research scholars, students and staff of Bioinformatics Centre.

PREREQUISITES : NIL

NUMBER OF PARTICIPANTS : 20

BOARDING & LODGING ARRANGEMENTSETC. : On request.

REGISTRATION FEE : Rs. 1000 /-

Training Code: [YSPUHF-03]

Title	: Creation and Management of Database
Date	: October 22 – 27, 2007
Duration	: 6 days
Subject Area (As per List enclosed)	: Database & Data mining

OBJECTIVES: To familiarize the participants with DBMS (Creation and Management).

CONTENTS: Back End- My SQL and Front End- PHP.

METHODOLOGY : Lectures, Demonstrations and Practical Sessions.

LEVEL OF PARTICIPANTS : Scientists, research scholars, students and staff of Bioinformatics centre.

PREREQUISITES : Basic knowledge of Computers.

NUMBER OF PARTICIPANTS : 12

BOARDING & LODGING ARRANGEMENTSETC. Rs. 800 /-

Training Code: [YSPUHF-04]

Title	: IPR Awareness Workshop.
Date	: December 18 - 19, 2007
Duration	: 2 days
Subject Area (As per List enclosed)	: IPR

OBJECTIVES: To create awareness regarding IPR issues and to provide basic knowledge about drafting & filing of patents.\

CONTENTS:

- i) Introduction to IPR
- ii) Research Planning in relation to patentability
- iii) Patent search through Internet
- iv) Drafting & filing of Patents

METHODOLOGY : Deliberation and Demonstration session on patent search.

LEVEL OF PARTICIPANTS : Scientists, research scholars, students and staff of Bioinformatics centre.

PREREQUISITES : NIL

NUMBER OF PARTICIPANTS : 20

BOARDING & LODGING ARRANGEMENTS ETC.. On request.

Contact Address :
Dr. S. V. BHARDWAJ, Coordinator

<p>Phone : 01792-252310 Fax : 01792-252242 E-mail : satbhardwaj@yahoo.com</p>
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Fakir Mohan University, Balasore**Training Code:** *[FMU-01]*

Title	: Fundamentals of Database and Data mining for Systems Biology
Date (from ___ to __)	: 16 Aug. 2007 – 25 Aug. 2007
Duration (in number of days):	: 10 days
Subject Area (As per List enclosed)	: Fundamentals of Database, Data mining for Systems Biology

OBJECTIVES: To train teachers, researchers and students in Bioscience(s) on different aspects of databases, data mining, and systems biology.

CONTENTS: Computer arithmetics; Combinatorial theory; Programming; Neural Network; Image analysis and pattern recognition; Introduction to Systems Biology; Genomics, Proteomics and Metabolomics; Database Management System; Biological Database; Data mining; Algorithm for Bioinformatics; Molecular Models, Structural Bioinformatics.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures 40% Demonstration 20% Hands-on-session 40%

LEVEL OF PARTICIPANTS : Bioscience teachers and researchers with minimum 5 years experience.

PREREQUISITES : M.Sc. in Biosciences with at least 5 years teaching or research experience.

NUMBER OF PARTICIPANTS : Maximum 50 (fifty)

Boarding & lodging arrangements etc.: To be done on request (advance payment required)

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs.1000/-	Accommodation is as per actual on the availability of Hotel rooms.
SAARC Countries	Rs.5000/-	
Other Countries	US\$500	

Contact Address :**Prof. AMARENDRA NARAYAN MISRA**, Coordinator**Phone** : 9437295915 (Mobile)**Fax** : +91 (6782) 264244**E-mail** : misraan@yahoo.co.uk**Web-Address** : www.fmuniversity.org

G. B. Pant University of Agriculture, Pant Nagar**Training Code:** *[GBPUAT-01]*

Title	: Biological Sequence Analysis and applications to Crop Improvement
Date (from ___ to ___)	: 16- 17th, November, 2007
Duration (in number of days):	: 2
Subject Area (As per List enclosed)	: Bioinformatics in Agriculture/Plant Sciences

OBJECTIVES: To develop DNA & Protein sequence analysis skills in participants enabling them to apply in area of Crop improvement.

CONTENTS: Introduction to sequence available on-line sequence repositories
Use of BLAST, FASTA, ClustalW and other sequence analysis tools
Inference of knowledge from sequence analysis results and their possible applications in crop improvement.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures Inter active laboratory Sessions

LEVEL OF PARTICIPANTS : Post graduate, Doctoral students, research and Faculty working in Plant sciences.

PREREQUISITES : Minimum skills in operation of a desk top computer.

NUMBER OF PARTICIPANTS : 25

Boarding & lodging arrangements etc. : Will be provided free of cost by workshop organizers upon availability.

Any other relevant information, if any:

REGISTRATION FEE (if any) : Rs. 500/- per participant

from (India, SAARC Countries, Other Countries, etc.)	Participants Without Accommodation	With Accommodation
	Rs. 500/- per participant	Will be provided

Contact Address :
Dr. SOMA MARLA, Coordinator

Phone : 05944- 233287
Fax : 05944-233473
E-mail : bioinfo.pantnagar@gmail.com,
ssmarl@yahoo.com
Web-Address : [http://www.gbpuat.ac.in/acads/cbsh/
Bioinformatics/home.htm](http://www.gbpuat.ac.in/acads/cbsh/Bioinformatics/home.htm)

Guru Nanak Dev University, Amritsar

Training Code: [GNDU-01]

Title	: Structural Bioinformatics-Towards drug design
Date (from ___ to ___)	: November 29-30, 2007 (Tentative)
Duration (in number of days):	: Two
Subject Area (As per List enclosed)	: Structural Bioinformatics

OBJECTIVES: To train Life Science Students/Research Fellows & Faculty in Bioinformatics and its Applications

CONTENTS: Tools of Bioinformatics

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demonstrations, Hands on Sessions

LEVEL OF PARTICIPANTS : Faculty Members/Research Fellows/ Students

PREREQUISITES : Nil

NUMBER OF PARTICIPANTS : 14-16

Boarding & lodging arrangements etc. :

Any other relevant information, if any :

REGISTRATION FEE (if any): Nil

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		

Contact Address :

Prof. GURCHARAN KAUR, Coordinator

Phone : 0183-2258431 Fax : 0183-2258272 E-mail : bicamritsar@yahoo.com Web-Address : www.gnduonline.org
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HNB Garhwal University, Srinagar Garhwal, Uttarakhand

Training Code: [HNBGU-01]

Title	: Bioinformatics & Biotechnology: Scope and applications.
Date	: 15- 19 October 2007
Duration (in number of days):	: 5
Subject Area (As per List enclosed)	: Bioinformatics in Environment, Biodiversity and Health Care

OBJECTIVES:

1. Career orientation in Bioinformatics
2. Familiarization with
 - general scope of Bioinformatics
 - applications of Bioinformatics in Biodiversity and Health care
 - Bioinformatics tools for the study of Biodiversity and Health care
3. Development of skills for Database searching, development and mining
4. To initiate participation in developing network database for distribution of fauna and incidence of diseases in Uttarakhand

CONTENTS:

Career planning and decision making.
 Introduction to Biotechnology, Bioinformatics and Medico-informatics
 Introduction to importance of biodiversity conservation
 Introduction to Environmental Health problems and care
 Applications of Bioinformatics to Biodiversity & Health care
 Introduction to Bioinformatics tools. Biological Databases.
 Search Engines for the study of Biodiversity and Health care

METHODOLOGY : Lectures, Brainstorming, Demos,
practical Sessions

- LEVEL OF PARTICIPANTS** : 10+2 School students
- PREREQUISITES** : Basic knowledge of handling computers
- NUMBER OF PARTICIPANTS** : 30
- Boarding & lodging arrangements etc.** : Hostels and Dorms
- Any other relevant information, if any:**
- REGISTRATION FEE** (if any): YES

Participants from	Without Accommodation	With Accommodation
India		Rs. 1,500/-

Training Code: [HNBGU-02]

Title	: Use of Bioinformatics tools for the study of Genetic diversity and Molecular phylogeny
Date	: 17 – 21 December 2007
Duration (in number of days):	: 5
Subject Area (As per List enclosed)	: Evolution and Phylogenetics.

OBJECTIVES: To impart training to participants in Bioinformatics tools used in the analysis and comparison of nucleotide sequences, genetic diversity and construction of phylogenetic trees. To initiate participation in developing network database for the Himalayan fauna

CONTENTS : Information retrieval and storage from web-based DNA databank Analysis and comparison of Nucleotide sequences using CLUSTAL X , Phylo_win and DNA sp. for the study of genetic diversity, Population genetic analysis using Arlequin software Construction of Phylogenetic trees using Phylip software Use of Network.exe software for constructing haplotype network

METHODOLOGY : Lectures, Demos, Hands on sessions

LEVEL OF PARTICIPANTS : PG students, research students, University and college teachers

PREREQUISITES : Basic knowledge of Bioinformatics and use of Windows XP and MS Office

NUMBER OF PARTICIPANTS : 15

Boarding & lodging arrangements etc.: Various categories available on payment

Any other relevant information, if any:

REGISTRATION FEE (if any): Yes

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs 1,000	1,000+ 75 / night dorm 1,000+100/night Twin share 1,000+150 /night " 1,000+ 200/ night " 1,000+1,000/night onwards

Training Code: [HNBGU-03]

Title	: International Symposium on Bird Diversity: Molecules to Ecosystems
Date Tentative	: March 1st week, 2008
Duration (in number of days):	: 05 days
Subject Area (As per List enclosed)	: Environment & Biodiversity

OBJECTIVES:

- To provide a common platform to selected known bird biologists working in various fields in life history strategies, systematics, behavior, ecology, physiology, phylogenetics, phylogeography, conservation genetics, genomics, bioinformatics and Indian scientists, especially younger generation of researchers and students in the field of Bioinformatics.
- To stimulate young Indian students and researchers in Bioinformatics, through this integrative exposure, to use their skills to unfold patterns and processes in the biological world embarking upon a world class cutting edge research career.

CONTENTS:

The importance of biodiversity conservation has been recognized globally & 'hot spots' identified (thru birds) at international conventions in the recent past. The scientific criteria for the selection of these hot spots viz., species richness & endemism are increasing being questioned (again thru studies on birds). Birds, apart from having given science leading concepts, can be (and have been) used as ideal biodiversity markers, with their enormous diversification and radiation, because much more is known on their distribution across the world, on patterns & processes at different levels – molecular, biochemical, physiological, behavioral and ecological (compared even to insects & plants). The wonderful Indian bird models also have contributed significantly to this knowledge base challenging many a myth (reproduction in tropical environments, hormonal mechanisms). Birds have also been extensively subjected to DNA technology since early eighties focusing on phylogenetics and recently comparative genomics which will accelerate further with the usage of macro and micro-arrays.

This presents the Bioinformaticians with a unique opportunity to integrate the variations in genes, & genetic pools with variations in behavior, ecology and physiology. Such cross-disciplinary effort in near future would help pinpointing

genome regions participating in adaptive change and help predict phenotypic changes resulting from changes in DNA. More importantly, apart from providing insights into the biotic mysteries surrounding us, it will also help prioritize scientific rationales for biodiversity conservation ending up not with 'dead museum assemblages' but leave behind viable, evolutionarily significant 'spots'.

METHODOLOGY :Symposium

Sessions in relevant areas shall comprise invited lectures, short presentations, posters, interactive brainstorming round tables. The entire event shall be managed by UG-PG Biology/Biotechnology/ Bioinformatics students of HNB Garhwal University.

LEVEL OF PARTICIPANTS: Researchers, PG students, UG students in 4-5 yr programs.

PREREQUISITES :

- Genuine interest in research and/or teaching
- Interest in the environment
- Students – only those committed to make research and/ or higher level teaching their career

NUMBER OF PARTICIPANTS : 225 - 250

Boarding & lodging arrangements etc. : Different categories available

Any other relevant information, if any:

REGISTRATION FEE:

Overseas US \$ 300, Indian Rs 2500, Students subsidized rates

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Yet to be worked out	Yet to be worked out

Contact Address :

Dr. ASHA CHANDOLA-SAKLANI, Coordinator

Phone : 1346.252215, 9412018010

Tele-Fax : 1346.251604

E-mail : biotech_hnbg_u@yahoo.co.in

Web-Address :

Indian Agricultural Research Institute, New Delhi**Training Code:** *[IARI-01]*

Title	: National workshop on Bioinformatics in Agriculture Sciences
Date (from ___ to ___)	: From 25th to 27th February, 2008
Duration (in number of days):	: Three days
Subject Area (As per List enclosed):	Bioinformatics in Agricultural Sciences

OBJECTIVES: To develop human resources to carry out Bio-informatics applications in Agricultural Sciences**CONTENTS:** Implementation of Bioinformatics tools and software**METHODOLOGY** (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demonstrations, Hands on sessions-Workshop**LEVEL OF PARTICIPANTS** : Students, University Teachers and Scientists from R & D Institutions**PRE-REQUISITES** : Nil**NUMBER OF PARTICIPANTS** : 100**Boarding & lodging arrangements etc.):** Limited accommodation subject to availability. Will be allotted based on first come first basis.**Any other relevant information, if any** : Will be informed later**REGISTRATION FEE** (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 1000/-	Rs. 2000/-
SAARC Countries	US \$ 50.	US \$ 100.
Other Countries	US \$ 75.	US \$ 150

Contact Address:

Dr. H. CHANDRASEKHARAN, Coordinator

Phone : 91-11-25842490, 25841255

Fax : 91-11- 25842490

E-mail : head_usi@iari.res.in

Web-Address : www.iari.res.in

Indian Institute of Science, Bangalore

Training Code: [IISc-01]

Title	: Drug Design Workshop
Date (from ___ to ___)	: July 30th to August 3rd, 2007
Duration (in number of days):	: 5 days
Subject Area (As per List enclosed)	: Computational Biology and Structural Bioinformatics

OBJECTIVES: To provide comprehensive review of the drug discovery process against a backdrop of the technology and research revolution; includes a horizontal overview of the disciplines involved in the drug discovery process and vertical delve into the critical elements of each discipline.

CONTENTS: Target identification and validation, lead discovery and optimization, enzymology and pharmacology, drug metabolism, pharmacokinetics, toxicology, biopharmaceuticals, drug formulations and personalized medicine

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, demos and hands-on Sessions

LEVEL OF PARTICIPANTS : Faculty, post-doctoral fellows, senior graduate students and scientists from pharmaceutical, biotechnology and bioinformatics industries.

PREREQUISITES :

NUMBER OF PARTICIPANTS : Limited

Boarding & lodging arrangements etc.) Limited accommodation is available in the campus

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 2500 (academic institutions) Rs. 5000 (commercial organizations)	

Contact Address :
Prof. S. RAMAKUMAR, Coordinator

Phone : 080-2293-2460 and 080-22932469

Fax : 080-23600551

E-mail : ddw07@serc.iisc.ernet.in

Web-Address : <http://www.serc.iisc.ernet.in/~ddw07>

Indian Institute of Technology, Delhi

Training Code: [IITD-01]

Title	: Computational Tools & Microbial Genomics
Date (from ___ to ___)	: July 12 to 14, 2007
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Computational Biology, Evolution and Phylogenetics

OBJECTIVES: i) To study the tools of computational biology
ii) To study microbial genomics in relation to their metabolic pathways & evolution

CONTENTS: Bioinformatics and its scope, Data base and its availability, computational tools and their utility, Scope for new mathematical tools for microbial genomics, Application of computational tools for microbial genomics.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Chemical/Biochemical Engineering / Biotechnology/Industrial Biotechnology, Lecture & Demonstration laboratory accordingly.

LEVEL OF PARTICIPANTS : M.Sc./ B.Tech./ M.Tech in Life Sciences or Biotechnology

PREREQUISITES :

NUMBER OF PARTICIPANTS : 50

Boarding & lodging arrangements etc.): Boarding & Lodging in the boys and girls hostel on request

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 2100 /-	

Contact Address :

Prof. A.K. SRIVASTAVA, Coordinator

Phone : 011-26596109(O), 26591001

Fax : 011-26582282

E-mail : hoddbeb@dbeb.iitd.ac.in

Web-Address :

Indian Institute of Technology, Kharagpur

Training Code: [IITK-01]

Title	: Bioinformatics in Genomics and Proteomics
Date (from ___ to ___)	: September 21 – 22, 2007 (Friday & Saturday)
Duration (in number of days):	: Two Days
Subject Area (As per List enclosed)	: Genome and proteome analysis, Structural Bioinformatics

OBJECTIVES: To create awareness among the researchers about using Bioinformatics tools and their applications in genome and protein research.

CONTENTS: Biological sequence analysis, DNA micro-array, molecular markers, biological database, system biology, protein structure analysis, immuno-informatics.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos, Hands on session.

LEVEL OF PARTICIPANTS : M.Sc., Ph.D students & teachers of Colleges and Universities / Institutes.

PREREQUISITES : NIL

NUMBER OF PARTICIPANTS : 60

Boarding & lodging arrangements etc. : Institute Guest House with subsidized rate.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 1200/- (including working lunch)	

Contact Address :
Professor S.C. KUNDU, Coordinator

Phone : 03222 – 283764 / -278433 / -281365

Fax : 03222 – 278433/ -255303 / -278707

E-mail : kundu@hijli.iitkgp.ernet.in

Web-Address : www.iitkgp.ernet.in

Indian Veterinary Research Institute, Izatnagar

Training Code: [IVRI-01]

Title	: Training in Biocomputing
Date (from ___ to ___)	: 19th – 22nd Nov, 2007
Duration (in number of days):	: 4 days
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES:

1. To make aware the participants about the tools used in Biocomputing.
2. To review advances in Biocomputing.

CONTENTS:

1. Statistical and Mathematical tools in Biocomputing.
2. Computer in Biocomputing.
3. Advances in Biocomputing.
4. Area of research and development in Biocomputing.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/ Symposia etc.) : Lectures, Demonstrations, Hands on Sessions

LEVEL OF PARTICIPANTS : Persons working in the field of Bioinformatics/ Statistics/ Math/ Veterinary/ Agriculture/ Medical Sciences

PREREQUISITES : Nil

NUMBER OF PARTICIPANTS : 20 (Tentative)

Boarding & lodging arrangements etc. Will be provided as per ICAR rules and regulations.

Any other relevant information, if any Nil

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
Students	Rs. 500/-	Rs. 600/-
Acad/ Res. Faculty	Rs. 1000/-	Rs. 1600/-
Industry	Rs. 2000/-	Rs. 3000/-

Training Code: [IVRI-02]

Title	: Workshop on Biocomputing
Date (from ___ to ___)	: 16th – 18th January, 2008
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES:

1. To make aware the participants about the central Dogma.
2. Database and Pattern matching.

CONTENTS:

1. Data Mining.
2. Modeling and Simulation.
3. Advances in Biocomputing.
4. Area of research and development in Biocomputing.

METHODOLOGY (Lectures, Demos, : Lectures, Demonstrations, Hands on
Hands on Session, Workshop/Seminar/ Sessions
Symposia etc.)

LEVEL OF PARTICIPANTS : Persons working in the field of
Bioinformatics/ Statistics/ Math/
Veterinary/ Agriculture/ Medical
Sciences

PREREQUISITES : Nil

NUMBER OF PARTICIPANTS : 50 (Tentative)

Boarding & lodging arrangements etc.) Will be provided as per ICAR rules and regulations.

Any other relevant information, if any Nil

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
Students	Rs. 500/-	Rs. 600/-
Acad/ Res. Faculty	Rs. 1000/-	Rs. 1600/-
Industry	Rs. 2000/-	Rs. 3000/-

Contact Address :
Dr. RAJENDRA SINGH, Coordinator

Phone : 91-581-2300305, 2300207

Fax : 91-581-2300305, 2303284

E-mail : codisc@ivri.up.nic.in

Web-Address : www.ivri.nic.in

Institute of Life Sciences

Training Code: [ILS-01]

Title	: Functional Genomics and Evolutionary Biology
Date (from ___ to ___)	: 21st – 23rd Nov, 2007
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Genome & Proteome analysis, Evolution and Phylogenetics

OBJECTIVES: To train the peoples working in Biotechnology and Bioinformatics

CONTENTS: Computer based prediction of functionally important genes and protein

METHODOLOGY (Lectures, Demos, : Lectures, Demonstrations, Hands on Hands on Session, Workshop/Seminar/ Lectures, Demos Symposia etc.)

LEVEL OF PARTICIPANTS : Mid carrier scientist and research Scholar

PREREQUISITES : Nil

NUMBER OF PARTICIPANTS : 14

Boarding & lodging arrangements etc.) Will be provided by the host Institute

Any other relevant information, if any Nil

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 1000/-	Rs. 3000/-

Contact Address :

Dr. SUBRATA K. DAS, Coordinator

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subratkdas@hotmail.com

Web-Address : www.ils.res.in

Institute of Microbial Technology, Chandigarh

Training Code: [IMTECH-01]

Title	: National Workshop on Computational Approaches for Predicting Nucleotide-Protein Interactions
Date (from ___ to ___)	: 9th – 12th October 2007
Duration (in number of days):	: 4
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES: The aim of this workshop is to familiarize the participants about computational tools developed for predicting nucleotide-proteins interactions

CONTENTS:

- i) Web servers for predicting DNA binding proteins and their binding site
- ii) Prediction of transcription factor
- iii) Docking of nucleotides in protein cavity
- iv) Prediction of RNA binding proteins and their binding sites

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures and Demos

LEVEL OF PARTICIPANTS : Ph.D.

PREREQUISITES : Graduate

NUMBER OF PARTICIPANTS : 30

Boarding & lodging arrangements etc. : We will try to accommodate participants in our guest house

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India (Academic, Students) India (Academic, Faculty) India (Industry) , SAARC and others	Rs. 2000/- Rs. 2500/- Rs. 3000/-	Participants have to pay charge according to accomodation

Contact Address :**Dr. G PS RAGHAVA**, Coordinator,**Phone** : 0172-2690557**Fax** : 0172-2690632 or 0172-2690585**E-mail** : raghava@imtech.res.in**Web-Address** : <http://www.imtech.res.in/raghava/>

Institute of Bioresources and Sustainable Development, Imphal

Training Code: [IBSD-01]

Title	: Application of Bioinformatics for Biodiversity conservation
Date	: 17-18th August, 2007
Duration (in number of days):	: 2
Subject Area	: Bioinformatics in Environment and Biodiversity

OBJECTIVES: To provide an exposure to biodiversity database development and management by hands on training, demonstration and lectures to the researchers.

CONTENTS: Introduction to IT and RDBMS, Creation of biological databases, Tools and techniques for biodiversity database development.

METHODOLOGY : Lectures, Demonstrations, Hands on training and field exploration for the development of database.

LEVEL OF PARTICIPANTS : Teachers, Scientists, Research scholars and Professionals.

PREREQUISITES : Basic knowledge of Computers and Biology

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc.) Not available

Any other relevant information, if any Nil

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
India	Rs. 500/-	NA
SAARC	NA	NA
Other Countries	NA	NA

Training Code: [IBSD-02]

Title	: Development of Biodiversity database
Date	: 29-30th January, 2008
Duration (in number of days):	: 2
Subject Area (As per List enclosed)	: Database and data mining

OBJECTIVES: To provide hands on training, demonstration and lectures to the researchers for biodiversity database development and management.

CONTENTS: Introduction to RDBMS, Development of biological databases, Tools and techniques for data collection and data retrieval.

METHODOLOGY : Lectures, Demonstrations, Hands on training and field exploration for the development of database.

LEVEL OF PARTICIPANTS : Teachers, Scientists, Research scholars and Professionals.

PREREQUISITES : Basic knowledge of Computers and Biology

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Not available

Any other relevant information, if any Nil

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
India	Rs. 500/-	NA
SAARC	NA	NA
Other Countries	NA	NA

Contact Address :

Shri. SUNIL S. THORAT, Coordinator

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Web-Address : <http://www.ibsd.gov.in>

**Indian Institute of Integrative Medicine, Jammu
(Erstwhile Regional Research Laboratory, Jammu)**

Training Code: *[IIM-01]*

Title	: Molecular Modeling and Drug Designing: The Structural Bioinformatics approach
Date (from ___ to ___)	: 24.09.07 to 27.09.07
Duration (in number of days):	: 4 (four)
Subject Area (As per List enclosed)	: Structural Bioinformatics/ Computational Biology.

OBJECTIVES: The workshop is aimed at highlighting the hurdles in the comprehensive drug designing process and addressing these problems to some extent using the Computational Biology and Structural Bioinformatics approach.

CONTENTS: 3-D Structure prediction of target proteins; The Techniques: Homology Modeling and Threading; Sequence Alignment; QSAR studies.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demonstrations, Hands on Sessions

LEVEL OF PARTICIPANTS : Students, Research Scholars, Teachers, Scientists in the field of life sciences, molecular modeling and bioinformatics with interest in drug development aspect.

PREREQUISITES : Nil

NUMBER OF PARTICIPANTS : 25

Boarding & lodging arrangements etc.)

Any other relevant information, if any

REGISTRATION FEE (if any): Yes

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 1000/- (Students) Rs.2500/- (Teachers/ Scientists)	Rs. 300/- extra per day (on sharing basis)

Contact Address :**Dr. G. N. QAZI**, Coordinator**Phone** : +91 191 2569111/222**Fax** : +91 191 2569333**E-mail** : qazi_gn@yahoo.com
amitnargotra@yahoo.com**Web-Address** : <http://www.rrljammu.org>

JAMIA MILLIA ISLAMIA, NEW DELHI**Training Code:** *[JMI-01]*

Title	: Semantic Web & Ontologies in Bioinformatics
Date (from ___ to ___)	: From 10th October to 12th October 2007
Duration (in number of days):	: Three Days
Subject Area (As per List enclosed)	: Ontologies and controlled vocabularies.

OBJECTIVES: The proposed training programme aims at to deal with the context-sensitive problems related to bioinformatician. Ontologies in the life sciences serve two equal functions. First, they provide controlled, hierarchically structured vocabularies for terminology that can be used to describe biological objects. Second, they specify object classes, relations and the functions in ways that capture the main concepts of and relationships in a research area. This training programme is basically meant for the Biology teachers of various colleges to make them aware of the various important concepts related to semantic web and ontologies and also about the usage of Biological Ontology resources/tools available on the web.

CONTENTS: Ontologies for common Terminology and Descriptions, Ontology for Automated Reasoning, Biological Data and the Semantic Web, Annotations and Metadata etc.

METHODOLOGY : There will be Lectures/presentations on various topics related to Ontology and Semantic Web in Bioinformatics by various expert resource persons from premier technical institutions and universities. The participants will also be given demo and Hand-on session for using various bioinformatics available on the High-end SUN servers.

- LEVEL OF PARTICIPANTS** : Biology Teachers at College level.
- PREREQUISITES** : Basic Knowledge of Biology and Computer.
- NUMBER OF PARTICIPANTS** : 30

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
From India	Rs. 1000/- (For Teachers) Rs. 500/- (For students)	

Training Code: [JMI-02]

Title	: Databases and Data Mining in Bioinformatics.
Date (from ___ to ___)	: From 13th November to 15th November 2007
Duration (in number of days):	: Three Days
Subject Area (As per List enclosed)	: Databases and Data Mining.

OBJECTIVES: Twenty-first century biology will be a data-intensive enterprise. The proposed training programme aims at to develop the knowledge about the collection of Biological data, analysis of data from potentially billions of members of millions of species and integration of data so that they are useful to scientists. As data storage and the analysis devices, computers are best suited to such tasks. Twenty-first century biology will be a data-intensive enterprise. This training programme is basically meant for the Biology teachers of various colleges to make them aware of the various important concepts related to Databases and Data Mining in Bioinformatics and also about the usage of Biological Databases and Data Mining resources/tools available on the web.

CONTENTS: Data Heterogeneity, Data in high volume, Data Accuracy and Consistency, Data Organization, Data Sharing, Data Representation, Analysis Tools, Data Presentation and Visualization, Large repository of Databases, Data Standards, Data Normalization, Data Warehousing, Data Integration Tools, Databases as a model, Ecological and Evolutionary Databases.

METHODOLOGY : There will be Lectures/presentation on various topics related Databases and Data Mining in Bioinformatics by various expert resource persons from premier technical institutions and universities. The participants will also be given demo and Hand-on session for using various bioinformatics available on the High-end SUN servers.

LEVEL OF PARTICIPANTS : Biology Teachers at College level.
PREREQUISITES : Basic Knowledge of Biology and Computer.
NUMBER OF PARTICIPANTS : 30

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
From India	Rs. 1000/- (For Teachers) Rs. 500/- (For students)	

Contact Address :

Prof. S.I.AHSON, Coordinator (BIF),

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Fax : 011-26980014 (Fax)
E-mail : drsiahsan@yahoo.com
Web-Address : www.jmi.nic.in

**Karnataka Veterinary, Animal & Fisheries Sciences
University, College of Fisheries, Mangalore**

Training Code: [KVAFSU-01]

Title	: Bioinformatics and its application
Date	: 13-15th December, 2007
Duration	: 3 days
Subject Area (As per List enclosed)	: Bioinformatics in Fisheries & Marine Sciences

OBJECTIVES: To introduce to basic bioinformatics and its application to marine sciences with particular reference to public health related pathogens and aquatic animal pathogens.

CONTENTS:

1. Introduction to Bioinformatics
2. Biological databases and data mining tools
3. Comparative genome analysis
4. Phylogenetic analysis
5. Gene identification and Gene Expression analysis
6. Application of bioinformatics tools in studying pathogens related to public health and aquatic animals.

METHODOLOGY : Lectures , Demos and Hands on session

LEVEL OF PARTICIPANTS : Scientists working in the field of marine sciences and postgraduate students

PRE-REQUISITES : Basic knowledge of computers

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Cost to be borne by the participants themselves.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 500/-	
SAARC countries	NA	
Other countries	NA	

Contact Address :**Dr. INDRANI KARUNASAGAR**, Coordinator**Phone** : 0824-2246384, 2243180**Fax** : 0824-2246384, 2243180**E-mail** : mircen@sancharnet.in;
karuna8sagar@yahoo.com**Web-Address** : www.mircenbiotech.com

Kannur University, Kerala

Training Code: [KANNUR-01]

Title	: Three Day National Workshop on Protein Structure-Function
Date (from ___ to ___)	: 17-12-2007 to 19-12-2007
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Structural Bioinformatics

OBJECTIVES: To create a deep insight of three dimensional structures of proteins and the structure-function relationship.

CONTENTS: Lectures on primary, secondary, tertiary and quaternary structure of proteins, domains, motifs, Enzyme active sites, substrates, inhibitors, intermolecular interactions between protein and ligands, docking.
Hand on experience to download files from PDB, display and make structural modifications of proteins and ligands, analysis of intermolecular interactions. InsightII, SPDBV and Rasmol will be used for the structure display and modifications.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demonstrations, Hands on Sessions

LEVEL OF PARTICIPANTS : PG and Research Students

PREREQUISITES : Participants should have a basic knowledge about the structure of molecules.

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Participants should make their own arrangements

Any other relevant information, if any

REGISTRATION FEE (if any): Rs.500/-

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India		

Contact Address :

Dr. M. HARIDAS, Coordinator

Phone : 0490-2347394

Fax : 0490-2345317

E-mail : mharidasm@rediffmail.com

Web-Address : www.kannuruniversity.ac.in

Kerala Agricultural University

Training Code: [KAU-01]

Title	: Bioinformatics in Data Analysis of Genes and Proteins.
Date (from ___ to ___)	: 12-9-2007 to 15-9-2007
Duration (in number of days):	: 4
Subject Area (As per List enclosed)	: Genome and Proteome analysis

OBJECTIVES: To provide a detailed understanding of the theories underlying different principles in Bioinformatics and the role of Bioinformatics in data analysis of Genes and Proteins.

CONTENTS: Genomics and Bioinformatics: Structural & Functional genomics, Computational tools for DNA sequence analysis, Gene prediction, Proteomics and Bioinformatics: Structural and Functional proteomics, Protein analysis servers, Biological databases: Data submissions and retrieval, Genome projects in progress.

METHODOLOGY (Lectures, Demos, : Lectures, Demonstrations, Hands on Hands on Session, Workshop/Seminar/ Sessions Symposia etc.)

LEVEL OF PARTICIPANTS : Scientists/Lecturers/Research scholars working in the field of Biosciences

PREREQUISITES : Basic knowledge in computer.

NUMBER OF PARTICIPANTS : 10

Boarding & lodging arrangements etc. Will be arranged on request on payment basis.

Any other relevant information, if any -

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs.1000/-	

Training Code: [KAU-02]

Title	: Structural Bioinformatics: Exploring Macromolecular structures
Date (from ___ to ___)	: 24-10-2007 to 27-10-2007
Duration (in number of days):	: 4
Subject Area (As per List enclosed)	: Structural Bioinformatics

OBJECTIVES: To focus on the advancements in Protein/DNA structure exploration methods and the role of structural Bioinformatics in Molecular Modeling, Mechanics and Molecular docking.

CONTENTS: Introduction to Macromolecules and structure determination, Retrieval of 2D and 3D data, Protein structure prediction methods, Structural Bioinformatics in Molecular Modeling, Mechanics, Molecular Docking and Computer Aided Drug designing.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demonstrations, Hands on Sessions

LEVEL OF PARTICIPANTS : Scientists/Lecturers/Research scholars working in the field of Biosciences

PREREQUISITES : Basic knowledge in Computer.

NUMBER OF PARTICIPANTS : 10

Boarding & lodging arrangements etc. Will be arranged on request on payment basis.

Any other relevant information, if any -

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs.1000/-	

Training Code: [KAU-03]

Title	: Bioinformatics: Current approaches & Applications
Date (from ___ to ___)	: 21-11-2007 to 24-11-2007
Duration (in number of days):	: 4
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES: To familiarize scientists about the emerging trends & applications in Bioinformatics and also to focus on the role of Bioinformatics in data interpretation of various “Omics” data.

CONTENTS: Knowledge processing in Bioinformatics, Efficient querying from Biological Databases, Data formats, DNA and protein Sequence analysis, Biological Pathway analysis, Phylogenetic analysis, Gene and protein predictions, Genomics and Bioinformatics, DNA Microarray technology and Bioinformatics, Tools and Softwares used in Bioinformatics research, Applications of Bioinformatics.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demonstrations, Hands on Sessions

LEVEL OF PARTICIPANTS : Scientists/Lecturers/Research scholars working in the field of Biosciences

PREREQUISITES : Basic knowledge in computer.

NUMBER OF PARTICIPANTS : 10

Boarding & lodging arrangements etc. Will be arranged on request on payment basis.

Any other relevant information, if any -

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs.1000/-	

Training Code: [KAU-04]

Title	: Workshop on Applications of Bioinformatics in Agricultural Research
Date (from ___ to ___)	: 06-12-2007 to 07-12-2007
Duration (in number of days):	: 2
Subject Area (As per List enclosed)	: Bioinformatics in Agriculture/Plant Sciences

OBJECTIVES: i. To provide a platform to discuss various aspects of Bioinformatics in revolutionizing agricultural research, its challenges and opportunities.

ii. To explore the role of Bioinformatics in biodiversity, biotechnology and data processing relevant to agriculture.

CONTENTS: Papers on following aspects will be invited for presentation: Bioinformatics & Biotechnology, Bioinformatics and Biodiversity, Biocomputing and Knowledge processing, Computational tools.

METHODOLOGY (Lectures, Demos, : Symposia
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Scientists/Research scholars from Agricultural & other Universities and Research Institutes.

PREREQUISITES : Nil

NUMBER OF PARTICIPANTS : 50

Boarding & lodging arrangements etc. Will be arranged on request on payment basis in hostels & local hotels.

Any other relevant information, if any -

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)	Rs.1500/-	

Contact Address :
Dr. R. KESHAVACHANDRAN, Coordinator

Phone : 0487-2371994
Fax : 0487-2371994
E-mail : rkcs@rediffmail.com
Web-Address : www.kaubic.org

Kumaun University, Nainital**Training Code:** *[KUN-01]*

Title	: Short training on “Applications of Bioinformatics”
Date (from ___ to ___)	: August 30th-September 1st, 2007
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Bioinformatics in Environment and Biodiversity

OBJECTIVES: The main objective of this training is to provide a platform to the beginners to interact with the experts of this area. In this three days training, leading experts from the field of bioinformatics will deliver lectures and conduct demonstrations. This training will be of immense use to the beginners (Faculty, research scholars and PG students) interested in the field of Bioinformatics.

CONTENTS: The Uttarakhand region is rich in biodiversity. To explore the biodiversity of this region, the department is mainly emphasizing on the research areas related with plant and microbial diversity. Therefore this training will be focused on applications of bioinformatics in environment and biodiversity.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures and demonstrations by leading experts of the related area

LEVEL OF PARTICIPANTS : PG Students Research Scholars & Faculty Members

PREREQUISITES : Basic knowledge of working with computers and Internet etc

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Will be arranged for outstation Participants

Any other relevant information, if any NA

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 500/-	Rs.500/+Accommodation charges

Contact Address :**Dr. VEENA PANDE**, Coordinator**Phone** : 05942-235521(O)**Fax** : 05942-235576**E-mail** : Veena_kumaun@yahoo.co.in**Web-Address** :

Lady Doak College, Madurai

Training Code: [LDC-01]

Title	: Applications of Systems Biology
Date (from ___ to ___)	: 10th – 12th January, 2008
Duration (in number of days):	: 3
Subject Area (As per List enclosed):	Network, Pathways, Systems Biology

OBJECTIVES: To familiarize researchers on applications of Systems biology
To provide the foundation for real hypothesis driven researches.

CONTENTS: Basics of systems biology, Usage of databases, Formulating hypothesis-driven insilico modeling and simulation and Technology driven integrative high through put functional analysis

METHODOLOGY (Lectures, Demos, : Symposium [Lectures and Hands on Session, Workshop/Seminar/ presentation] Symposia etc.)

LEVEL OF PARTICIPANTS : Students and Teachers

PREREQUISITES : Basic knowledge in Biotechnology and Bioinformatics

NUMBER OF PARTICIPANTS : 100

Boarding & lodging arrangements etc. Will be arranged on request on payment basis.

Any other relevant information, if any -

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 1500/-	

Training Code: [LDC-02]

Title	: Workshop on Concepts and Methods in Bioinformatics
Date (from ___ to ___)	: 19th – 29th May, 2008
Duration (in number of days):	: 10
Subject Area (As per List enclosed)	: Bioinformatics and Biocomputing

OBJECTIVES: To familiarize researchers on applications of Bioinformatics tools

CONTENTS: Basics of Computational Biology, Usage of databases, Sequence homology, Proteomics and its analysis, Molecular modeling

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Workshop, Lectures followed by presentation, hands on training

LEVEL OF PARTICIPANTS : Students and Teachers

PREREQUISITES : Basic knowledge in Biology

NUMBER OF PARTICIPANTS : 25

Boarding & lodging arrangements etc. Will be arranged on request on payment basis.

Any other relevant information, if any -

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 2000/-	

Contact Address :

Dr. R. SHENBAGARATHAI, Coordinator

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Fax : 91 - 452 - 2530293, 2523585

E-mail : shenbagarathai@rediffmail.com,
ladydoak@md3.vsnl.net.in

Web-Address : <http://www.ladydoak.org/>

Lucknow University

Training Code: [LU-01]

Title	: Hands on Training on Genome and Proteome analysis
Date	: Feb 12 to 16, 2008
Duration	: 5 days
Subject Area (As per List enclosed)	: Genome and Proteome analysis

OBJECTIVES: The objectives of the hands on training program is to give exposure to the participants of concepts, skills and tools of Bioinformatics and to provide hands on training on various bioinformatics approaches for analyzing DNA, RNA and protein sequences. It is also aimed towards giving exposure to computational modeling for protein three dimensional structure predictions.

CONTENTS: The training is intended to cover all major concepts of bioinformatics through guided practical training. All major online repositories and free tools will be used during the training program. The topics to be discussed during the training course include basics of biotechnology, accessing biological repositories, sequence retrieval methods, sequence alignment using dynamic programming, algorithms of BLAST and FASTA, substitution matrices, automated DNA sequencing methods, peptide sequencing, Phred, Phrap Consed in genome sequencing, genome analysis, comparative genomics and molecular phylogenetics.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lecture and demonstration will be followed by hands-on session in computer lab. Resourced persons from host institution as well as from other institutions will be invited for delivering lectures as well as for imparting hands on training.

LEVEL OF PARTICIPANTS : Faculty, Research Scholars and Students from academic institutions and research organizations.

PREREQUISITES : Must have at least graduate degree in Life Sciences /Biotechnology.

NUMBER OF PARTICIPANTS : 10

Boarding & lodging arrangements etc. Limited boarding facility is available in the University Guest house and be given on first cum- first serve basis.

Any other relevant information, if any-

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 800/-	Rs. 1400/- (Only boarding)

Contact Address :
Prof. U.N. DWIVEDI, Coordinator, BIF

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Fax : 0522-2740132 (Telefax)
E-mail : upendradwivedi@hotmail.com
Web-Address : www.lkouniv.ac.in

MADRAS VETERINARY COLLEGE, CHENNAI**Training Code:** [MVC-01]

Title	: Training Programme on “Bioinformatics & Information Technology”
Date (from ___ to ___)	: 22-26 October & 10-14 December, 2007 10-14 March, 2008
Duration (in number of days):	: 5 Days
Subject Area (As per List enclosed):	Bioinformatics & Genomics/ Proteomics

OBJECTIVES: To update the computer skills and knowledge of scientists & teaching faculties in the area of Bioinformatics, Information Technology & Information Retrieval System.

CONTENTS: Bioinformatics & Application of IT for R&D, CD-ROM based data retrieval, Online Database retrieval, Molecular Modeling, Genomics & Proteomics, Biological Databases, Biological Sequence Analysis, Phylogeny

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demonstrations, Hands on Sessions

LEVEL OF PARTICIPANTS : Scientists, Research Scholar and teaching faculties of various disciplines

PREREQUISITES : Knowledge of computer operation preferable

NUMBER OF PARTICIPANTS : 25-30

Boarding & lodging arrangements etc. Participants must make their own travel arrangements

Any other relevant information, if any

REGISTRATION FEE (if any): NO

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		

Training Code: [MVC-02]

Title	: Training Programme on “Information Retrieval System”
Date (from ___ to ___)	: 27-29 November, 2007 , 23-25 January, 2008 & 25-27 February, 2008
Duration (in number of days):	: 3 Days
Subject Area (As per List enclosed)	: Database/ Software developments in Biotechnology

OBJECTIVES: To update the computer skills and knowledge of scientists & teaching faculties in the area of Bioinformatics, Information Technology & Information Retrieval System.

CONTENTS: Bioinformatics & Application of IT for R&D, CD-ROM based data retrieval, Online Database retrieval, Biological Databases

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos and Hands on Session

LEVEL OF PARTICIPANTS : PG (M.V.Sc. & Ph.D.) of TANUVAS

PREREQUISITES : Knowledge of computer operation preferable

NUMBER OF PARTICIPANTS : 25-30

Boarding & lodging arrangements etc. Participants must make their own travel arrangements

Any other relevant information, if any

REGISTRATION FEE (if any): NO

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		

Contact Address :

Dr. P. DHANAPALAN, Coordinator

<p>Phone : 044-25360106, 25365418, 25381506 Ext. 264</p> <p>Fax : 044-25360114</p> <p>E-mail : btismvc@giasmd01.vsnl.net.in</p> <p>Web-Address : www.tanuvastn.nic.in</p>

Maharani's Science College for Women

Training Code: [MSCWB-01]

Title	: National workshop on computational biology
Date (from ___ to ___)	: September 3rd week
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Computational biology

OBJECTIVES:

1. Exposure to basic bioinformatics and bioinformatics tools.
2. Sharpen the data search and literature survey skills aiding in better teaching.
3. Use of bioinformatics tools in accelerating research and knowledge acquisition of teachers.

CONTENTS:

- Mathematics and statistics for biologists/bioinformatics
- Foundation course in molecular/cell biology
- Basic biochemistry and biomolecular structures
- Databases and Data structures basics.
- Methods for sequence analysis.
- Structural analysis

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Workshop consisting of Lectures and hands on session.

LEVEL OF PARTICIPANTS : Life science lecturers.

PREREQUISITES : Basic knowledge in computer operating systems and internet usage.

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Assistance for accommodation can be provided if required.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
INDIA	2000/-	-

Contact Address :Mrs . **KAVITHA B** , Coordinator**Phone** : 080-22371416**Fax** :**E-mail** : micromscw@rediffmail.com**Web-Address** :

Maulana Azad National Institute of Technology, Bhopal

Training Code: [MANIT-01]

Title	: National Workshop on Bioinformatics
Date (from ___ to ___)	: May 21-25, 2007
Duration (in number of days):	: 5 Days
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES:

1. Create awareness among the participants about this new area of Bioinformatics and bring applied orientation among them.
2. To expose the utility, significance and importance of Bioinformatics.
3. To give exposure of various areas of Bioinformatics and their applications.
4. Exposure to Computational Modelling, Simulation, various tools and techniques in Bioinformatics

CONTENTS:

1. Introduction to Bioinformatics and Molecular Biology
2. Biological and Bioinformatics databases and data mining
3. Introduction to Mathematical Modeling and Simulation
4. Sequence Analysis & Computational Models for Biological data
5. Phylogenetic analysis and Proteomics
6. Various Bioinformatics languages and tools related to Sequence Analysis, Evolutionary analysis and proteomics.
7. Application of Modeling and Simulation to various types of Biological data like Nucleotide (DNA & RNA) and Protein sequences, their structures and relative interactions etc.
8. Software tools like BLAST, FASTA, CLUSTALW, GENSCAN, PRIMER3,
9. PHYLODENDRON, RASMOL, SPDBV

METHODOLOGY (Lectures, Demos, : Lectures, Demos, Hands on Session, Hands on Session, Workshop/Seminar/ Workshop Symposia etc.)

LEVEL OF PARTICIPANTS : Professionals Faculty ,Research Scholars, Students,

PREREQUISITES : life Sciences / Computer Sciences / Engineering / Mathematics / Medical Sciences / Pharmacy

NUMBER OF PARTICIPANTS : 40

Boarding & lodging arrangements etc. Accommodation to outstation participants can be arranged at Faculty Guest House on request. The request for the accommodation should be made well in advance

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs.1000/-	Rs.2000/-

Training Code: [MANIT-02]

Title	: National Workshop on Cheminformatics
Date (from ___ to ___)	: May 28 - June 1 , 2007
Duration (in number of days):	: 5Days
Subject Area (As per List enclosed)	: Genome & Proteome Analysis Structural Bioinformatics

OBJECTIVES:

1. Create awareness among the participants about this new area of Cheminformatics and bring applied orientation among them.
2. To give exposure of concepts, skills, tools and techniques in the application area of Cheminformatics to the participants.
3. To expose the utility, significance and importance of Cheminformatics.
4. To train teachers how to teach Cheminformatics in different disciplines of Biology , Pharmacy , computer science & IT .
5. Exposure to Computational Modeling, Simulation, and various areas in Cheminformatics.
6. Recent trends and future directions.

CONTENTS:

1. Bioinformatics
2. Genomics
3. Proteomics
4. Molecular Modeling
5. Cheminformatics Databases & their Management
6. Computational Chemistry
7. Tools & Software's
8. Drug Discovery , Drug Design
9. Mathematical Modeling & Simulation

METHODOLOGY (Lectures, Demos, : Lectures, Demos, Hands on Session, Hands on Session, Workshop/Seminar/ Workshop Symposia etc.)

LEVEL OF PARTICIPANTS : Professionals, Faculty ,Research Scholars, Students,

PREREQUISITES : Mathematics / Biology / Pharmacy / Chemical Sciences /Computer Science/ Applications/ Engineering

NUMBER OF PARTICIPANTS : 40

Boarding & lodging arrangements etc. Accommodation to outstation participants can be arranged at Faculty Guest House on request. The request for the accommodation should be made well in advance

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs.1000/-	Rs.2000/-

Contact Address :

Dr. K.R.PARDASANI & DR.NAMITA SRIVASTAVA, Coordinator

Phone : 09425358308 (M) 0755-2671633 (R),
0755-2670562 09302371344 (M)
0755-222073(R)
E-mail : bioinfo2007@gmail.com

MGIMS, Wardha**Training Code:** [MGIMS-01]

Title	: Workshop on Medical Informatics & Biomedical Communication.
Date (from ___ to ___)	: November 30th & December 1st 2007
Duration (in number of days):	: 2 Days
Subject Area (As per List enclosed)	: Bioinformatics in Medical Sciences

OBJECTIVES: Sensitization of Medical Teachers, Scientists and PG / PhD students about Medical / Health Informatics, Hospital Information System, Evidence based Medicine, Telemedicine, and Biomedical Communication.

CONTENTS: Interesting lectures on:

- i) Medical / Health Informatics, Hospital Informatics System, Telemedicine.
- ii) Bioinformatics with special reference to genomics, proteomics.
- iii) Retrieval of Biomedical information, Database management / Software.
- iv) Biomedical Communication.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Workshop will comprise of interesting Lectures, Demonstrations and Hands on session by the Eminent experts and experienced resource persons.

LEVEL OF PARTICIPANTS : Medical teachers, Scientists, PG / PhD students in life sciences.

PREREQUISITES : Familiarity with computer usage and Medical database search is desirable.

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. : Boarding and lodging are provided

Any other relevant information, if any: So far we have organized 7 National level Workshops on Medical

Informatics and Biomedical Communication, One National Symposium on 'Medical Informatics' & CME on 'Hospital Information System' and one National Seminar on 'Biomedical Informatics'.

These Workshops, Symposium & Seminar have benefited staff and students of local and neighboring Institutes and participants from States all over India and abroad.

REGISTRATION FEE

: Inclusive of Course material, Breakfast, Lunch, Dinner and Tea.

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 500	Rs. 700
SAARC Countries	\$25	\$30
Other Countries	\$50	\$60

Contact Address :

Dr. B. C. HARINATH, Coordinator

Tele Fax : 07152 - 284038 Tele Fax: 07152 - 284038

E-mail : bch@jbtdrc.org, info@jbtdrc.org

E-mail : sk@jbtdrc.org

Web Address : www.jbtdrc.org

Madurai Kamaraj University, Madurai

Training Code: [MKU-01]

Title	: Seminars on Networks, pathways and systems - integrated approaches
Date (from ___ to ___)	: 29th to 31st Jan. 2007
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Networks, pathways and system Biology

OBJECTIVES: Train advance concept in area of pathway analysis, systems biology, data mining and chemoinformatics to research scholars, faculty and scientists in working in the area of biological Sciences etc.

CONTENTS:

- Pathway analysis
- Systems biology
- Text mining and data mining
- Target identification through pathway
- Chemoinformatics
- Genomics

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures and Demos

LEVEL OF PARTICIPANTS : PG students, Research Scholar and faculty

PREREQUISITES :

NUMBER OF PARTICIPANTS : 50

Boarding & lodging arrangements etc. yes

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	1500/-	2500/-

Contact Address :

Prof S. KRISHNASWAMY, Coordinator

Phone : 91-452-2459141

Fax : 91-452-2459105

E-mail : krishna@mrna.tn.nic.in,
mkukrishna@gmail.com

Web-Address : <http://www.biotechmku.org>

National Brain Research Centre, Manesar

Training Code: [NBRC-01]

Title	: Computational Neuroscience Workshop
Date (from ___ to ___)	: Oct-07
Duration (in number of days):	: 10 days
Subject Area (As per List enclosed)	: Computational Neuroscience

OBJECTIVES:

To create awareness and impart training in the field of computational neuroscience

CONTENTS:

Lectures, tutorials and computer lab

METHODOLOGY (Lectures, Demos, : Lectures and labs
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Graduate

PREREQUISITES : Background in science, mathematics
upto 12th standard.

NUMBER OF PARTICIPANTS : 30

Boarding & lodging arrangements etc. By the organizing institution

Any other relevant information, if any

REGISTRATION FEE (if any):None

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		

Contact Address :

DR. NANDINI C. SINGH, Coordinator

Phone : 91-124-2338920 Fax : E-mail : nandini@nbrc.ac.in Web-Address :

NBRI, Lucknow**Training Code:** *[NBRI-01]*

Title	: Standards on Asia Pacific Traditional Medicine Network
Date (from ___ to __)	: May/ June 2007
Duration (in number of days):	: 2 days
Subject Area (As per List enclosed)	: Bioinformatics in Environment and Biodiversity

OBJECTIVES:

- (i) To discuss profile of databases on APTM Network.
- (ii) To discuss contents for websites and obtain suggestions of experts.
- (iii) To make progress road map including time targets and achievements to be achieved in about one year's time.

CONTENTS:

The workshop will be organized to finalize standards and profile of India Nodal Station under APTMNetwork.

METHODOLOGY (Lectures, Demos, :
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Representative of DBT/ CSIR/ ICAR/
NBPGR/ DST/ TBGRI, FRLHT, RRL
Jammu and several other departments.

PREREQUISITES :

NUMBER OF PARTICIPANTS : 40

Boarding & lodging arrangements etc.

Any other relevant information, if any

Training Code: [NBRI-02]

Title	: Digitization of RET species of Indian Botanic Gardens.
Date (from ___ to __)	: July/ Aug. 2007
Duration (in number of days):	: 2
Subject Area (As per List enclosed)	: Bioinformatics in Environment and Biodiversity

OBJECTIVES:

- (i) To discuss digitization of RET species in Botanic Gardens
- (ii) To evolve methodology for developing software tool for identification of RET species.

CONTENTS: Under MIT sponsored project NBRI-BC shall be organizing a training-cum-workshop on developing a database on botanical garden of India and also on developing a software tool for identification of RET species.

METHODOLOGY (Lectures, Demos, :
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Scientists/ Curators/ Academicians
working in Botanical Gardens.

PREREQUISITES : Members of IBGN

NUMBER OF PARTICIPANTS : 40

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		

Contact Address :

DR. SUDERSHAN KUMAR, Coordinator

Phone : 0522-2205831-35 Ext. 208/209,
0522-2204026/2204025/ 9415022174

Fax : 0522-2205673

E-mail : sudershank@hotmail.com

Web-Address : www.nbri-lko.org

National Dairy Research Institute, Karnal

Training Code: *[NDRI-01]*

Title	: National Workshop on Genome Analysis in Farm animals
Date (from ___ to ___)	: 18th to 22nd September 2007
Duration (in number of days):	: 5 days
Subject Area (As per List enclosed)	: Genome and Proteome Analysis

OBJECTIVES: To impart training on 'Techniques on Genome Analysis using various Molecular Markers' in farm animals

CONTENTS: Genome organization and Analysis Molecular Markers and their applications, DNA fingerprinting technology and applications, RT-PCR: Gene cloning, FISH and Chromosome painting, Gene Mapping and its applications, Transgenesis and its applications. In silico analysis of promoter sequence, DNA and Protein translation tools.

METHODOLOGY (Lectures, Demos, : Workshop/ Hands on Session & Hands on Session, Workshop/Seminar/ Lectures Symposia etc.)

LEVEL OF PARTICIPANTS : M.Sc./ Ph.D. students/ Research Students/ Faculty

PREREQUISITES : Nil

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Charges to borne by the participants (If accommodation required)

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 1200/- faculty Rs. 800/- students	
SAARC Countries	Rs. 2000/-	
Other Countries	Rs. 2500/-	

Contact Address :

Dr. D. K. JAIN, Coordinator

Phone : 91-0184-2259014

Fax : 91-0184-2250042

E-mail : dkjn@rediffmail.com

Web-Address : <http://www.ndri.res.in>

National JALMA Institute for Leprosy and other Mycobacterial Diseases

Training Code: [JALMA-01]

Title	: Bioinformatics Orientation training Programme
Date (from ___ to ___)	: Batch I - 26th Aug 2007 to 31st Aug 2007 Batch II- 24th Dec 2007 to 30th Dec 2007
Duration (in number of days):	: 2 batches, each of one week
Subject Area (As per List enclosed)	: 1. Genome & Proteome analysis 2. Computational Biology 3. Ontologies and controlled vocabularies 4. Networks, pathways and system biology 5. Database and data mining 6. Bioinformatics in Medical Sciences 7. Bioinformatics in Agriculture/Plant Sciences 8. Bioinformatics in Environment and Biodiversity

OBJECTIVES: To provide an orientation training to post graduate and Research student in Life Sciences about the use of bio informatics tools in modern biology specially in Biotechnology, Molecular biology, Pharmaceuticals etc.

Most of the students participating in these programme would belongs to the places having very little facilities and expertise in the area of Bioinformatics so this small exposure will be very helpful to them to understand this emerging field of Modern Biology.

CONTENTS: (1) Introduction to Bioinformatics. (2) Introduction to Databases and database mining. (3) Sequence analysis. (3) Designing of different types of probes and primers. (4) Protein modeling and in-silico structural biology. (5) Bioinformatics applications in Medicine

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demonstrations and hands on training

LEVEL OF PARTICIPANTS : M.Sc, M.Tech, PhD in Life Sciences, M.D. and faculty members from universities, Colleges, Medical Colleges

PREREQUISITES : NIL

NUMBER OF PARTICIPANTS : Approx -20

a) **Post Graduates** (M.Sc, M.Tech, M.D) 15

b) Faculty, Research Scholars, Scientists 5

Boarding & lodging arrangements etc. Available only for Limited Number of participants

Any other relevant information, if any NIL

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 500.00	Rs.600.00

Training Code: [JALIMA-02]

Title	: Project / Dissertation Training
Date (from ___ to ___)	: Jan 2008 to June 2008
Duration (in number of days):	: 6 months
Subject Area (As per List enclosed)	: 1. Genome & Proteome analysis 2. Evolution and Phylogenetics 3. Ontologies and controlled vocabularies 4. Networks, pathways and system biology 5. Database and data mining 6. Bioinformatics in Medical Sciences 7. Bioinformatics in Environment and Biodiversity

OBJECTIVES: During this programme students will use this facility in collaboration to different laboratories in Institute such as Molecular Biology, Immunology, Biochemistry etc. to analyze the results. Most of the students participating in this program belong to the places having very little facilities and expertise in the area of Bioinformatics so this small exposure will be very helpful to them to understand this emerging field of modern Biology.

CONTENTS: (1) Introduction to Bioinformatics. (2) Introduction to Databases and database mining. (3) Sequence analysis. (3) Designing of different types of probes and primers. (4) Protein modeling and in-silico structural biology.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demonstrations and hands on training

LEVEL OF PARTICIPANTS : B.Sc., M.Sc., B.Tech., M.Tech., PhD in Life Sciences and some faculty members

PREREQUISITES :

NUMBER OF PARTICIPANTS : Approx -110
c) Graduates (B.Sc, B.Tech) 50

- d) Post Graduates (M.Sc., M.Tech) 50
 e) Faculty and Research Scholars 10

Boarding & lodging arrangements etc. Available only for Limited Number of Students

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 500.00	Rs. 650.00

Contact Address :

Dr. V. M. KATOCH, Director

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Fax : +91-562 2331755
E-mail : vishwamohan_katoch@yahoo.co.in,
 devchaihan01@yahoo.com
Web-Address : www.jalma-icmr.org.in

North-Eastern Hill University, Shillong

Training Code: [NEHU-01]

Title	: Inferring Biological Relationships: A Bioinformatics Approach
Date	: 19th to 23rd November, 2007
Duration (in number of days)	: 5 days
Subject Area (As per List enclosed)	: Genome & Proteome analysis/ Evolution and Phylogenetics

OBJECTIVES: To generate awareness and provide hands on training related to sequence analysis and comparative genomics from a bioinformatics perspective.

CONTENTS:

Sequence Analysis

- Collection and Storage of sequences in Public Databases
- Sequence File Formats
- Scoring Matrices, PSA, MSA
- Phylogenetic Analysis: Maximum Parsimony, UPGMA, NJ methods etc.
- Comparative Genomics: Basic Concepts, Applications and Need for whole genome alignment
- BLAST 2, Mega BLAST Algorithms.

Gene Prediction (Gene prediction in Microbial Genomes, Gene prediction in Eukaryotic Genomes, Evaluation of Gene Prediction Methods)

Genome Analysis (Genome Anatomy, Prokaryotic genomes, Eukaryotic Genomes, Genome Assembly and Annotation)

Genome Databases of parasites and Pathogenic Organisms

Malarial Parasite (PlasmoDB)

Genome Databases at NCBI, SANGER, TIGR etc.

DNA Micro array for Assaying Gene Expression

(Basic Principles, Correlation of gene expression data to biological expresses and Computational Analysis tools, Gene Expression Omnibus, Array Express, Stanford Micro array DB, Yale Micro array Databases)

METHODOLOGY (Lectures, Demos, : Lectures, Demos, Hands on Session Hands on Session, Workshop/Seminar/ Symposia etc.)

LEVEL OF PARTICIPANTS : Research Scholars/Scientists/Teachers
in Life Sciences

PREREQUISITES : Knowledge in Basics of Computer and
Molecular Biology

NUMBER OF PARTICIPANTS : 30

Boarding & lodging arrangements etc. Arrangements can be done subject to
request in the University Guest House

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 1,000.00	

Training Code: [NEHU-02]

Title	: Molecular Biology Databanks and Integrated Data Analysis Tools: A Bioinformatics Approach
Date	: 10th to 14th March, 2008
Duration (in number of days)	: 5 days
Subject Area (As per List enclosed)	: Bioinformatics in Environment and Biodiversity

OBJECTIVES : To generate awareness and provide hands on training related to database development and information retrieval from public repositories housing biological information

CONTENTS:**Basics of IT and computer fundamentals**

- Networking: LAN, WAN etc. (BUS, Star, Ring topology)
- Introduction to database development: MS ACCESS, ORACLE, My SQL
- Web Designing and its Importance: HTML, ASP
- O/S: DOS, UNIX, LINUX

Biological Databases

Archival databases

- Sequence database: GENBANK, EMBL, DDBJ, Swissprot, TrEMBL etc.
- Genome Databases at NCBI, EBI, TIGR, SANGER

Derived Databases: Prosite, PRODOM, PFam, PRINTS, CATH, SCOP

Biological Database Annotation, Design and Integration**Biodiversity Informatics**

- Tree of Life
- GBIF
- Life 2000 Projects
- NCBI Taxonomy Resources

Information Retrieval System

Sequence Retrieval

- Entrez at NCBI
- SRS at EBI

Submission of Sequences

- Bankit at NCBI
- Sequin at NCBI

- Webin at EBI
- Sakura at DDBJ

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos, Hands on Session

LEVEL OF PARTICIPANTS : Research Scholars/Scientists/Teachers in Life Sciences

PREREQUISITES : Knowledge in Basics of Computer and Molecular Biology

NUMBER OF PARTICIPANTS : 30

Boarding & lodging arrangements etc. Arrangements can be done subject to request in the University Guest House

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 1,000.00	

Contact Address :

Prof. PRAMOD TANDON, Coordinator

Phone : +91 364 2550 150/ 272 1242/272 1241

Fax : +91 364 2550 150/2550 300

E-mail : bioinfo1@sancharnet.in
bicnehu@gmail.com

Web-Address : www.nehu.ac.in/bic

National Institute of Immunology, New Delhi

Training Code: [NII-01]

Title	: Discussion meeting on Computational and Systems Biology
Date (from ___ to ___)	: 25th April 2007 to 26th April 2007
Duration (in number of days):	: Two days
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES: To give an overview of the field

CONTENTS: Examples of the use of computational and systems biology for solving biologically relevant problems.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos & Hands on Sessions

LEVEL OF PARTICIPANTS : Researchers from Universities, Institutes and industries

PREREQUISITES :

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Participants have to arrange their own accommodation

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Nil	

Contact Address :

DR. D. M. SALUNKE, Coordinator

Phone : 91-11-26717108 Fax : 91-11-26162125 Email : dinakar@nii.res.in , deb@nii.res.in Web-Address : http://www.nii.res.in
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National Institute of Oceanography

Training Code: [NIO-01]

Title	: National workshop on Biogeography data management and its application in Biodiversity Research
Date (from ___ to ___)	: 12 to 14 December 2007
Duration (in number of days):	: Three days
Subject Area (As per List enclosed)	: Bioinformatics in Environment and Biodiversity

OBJECTIVES: To expose researchers, academicians and students to the vast potential of biodiversity data and its management using bioinformatics and GIS tools

CONTENTS:

- Basic concepts and importance of biogeography and biodiversity
- Mapping of biogeography data using GIS tools
- Hand on training in GIS software
- Future applications of biogeography in biodiversity management

METHODOLOGY (Lectures, Demos, : Lectures, Hand on Sessions
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Post graduate students, Teachers,
Researchers

PREREQUISITES : Basic knowledge of computers,
understanding biodiversity concept

NUMBER OF PARTICIPANTS : 25

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		
India		Rs. 1000/-

Contact Address :

DR. C.T. ACHUTHANKUTTY, Coordinator

Phone : 91 – 832 – 2450219 / 2450277

Fax : 91 – 832 – 2450606

E-mail : achu@nio.org / devanand@nio.org

Web-Address : www.niobioinformatics.res.in

National Institute of Pharmaceutical Education and Research

Training Code: [NIPER-01]

Title	: SUMMER training in BIOINFORMATIC in Drug Design
Date (from ___ to ___)	: 1st June 2007 to 31st July 2007
Duration (in number of days):	: 60 days
Subject Area (As per List enclosed)	: Bioinformatics in Medical Sciences

OBJECTIVES: To teach the application of bioinformatics in structure prediction and performing molecular docking and de novo design.

CONTENTS:

- Sequence Analysis
- Homology Modeling
- Molecular Docking
- De Novo drug Design
- Pharmacoinformatics.

METHODOLOGY (Lectures, Demos, : Hands on training
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Masters students in Chemical /
biological / pharmaceutical sciences.

PREREQUISITES : At least completed Masters degree 1st
year examinations.

NUMBER OF PARTICIPANTS : 10

Boarding & lodging arrangements etc. Facilities not available

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		
	Rs. 10,000/- per month	

Training Code: [NIPER-02]

Title	: Symposium on Bioinformatics in Pharmacology
Date (from ___ to __)	: 2nd Nov. 2007
Duration (in number of days):	: One day
Subject Area (As per List enclosed)	: Bioinformatics in Medical Sciences

OBJECTIVES: To introduce the topic of bioinformatics to Pharmacology and toxicology experts.

CONTENTS:

- Series of lectures by experts on topics related to
- Bioinformatics in pharmacology
- Bioinformatics in toxicology
- Bioinformatics in target identification
- Bioinformatics in target validation

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Symposium As a part of Indian Pharmacological Society Annual meetings.

LEVEL OF PARTICIPANTS : Members of Pharmacological Society of India.

PREREQUISITES : Life member / annual member of IPS.

NUMBER OF PARTICIPANTS : 800

Boarding & lodging arrangements etc. Facilities will be made along with IPS annual meetings

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 10,000/- per month	

Contact Address :

Prof. P.V. BHARATAM, Coordinator

Phone : 0172-2214684 Extn. 2018
Fax : 0172-2214692
E-mail : pvbharatam@niper.ac.in
Web-Address : [www.geocities.com/
bhratampv/bharatam.html](http://www.geocities.com/bhratampv/bharatam.html)

N.I.T.RAIPUR, RAIPUR (C.G.)**Training Code:** [NITR-01]

Title	: National Workshop on Bioinformatics in Environment and Biodiversity.
Date (from ___ to ___)	: 22 to 23 December 2007
Duration (in number of days):	: 2 days
Subject Area	: Bioinformatics in Environment and Biodiversity

OBJECTIVES: The seminar intent to distributed information among the participant in the field of Bioinformatics in Environment and Biodiversity as this state is having big diversity distribution.

CONTENTS: To be given during the seminar.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : Student, scientist, Research scholar and Teachers.

PREREQUISITES : Nil

NUMBER OF PARTICIPANTS : 30

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 1000/-	Rs. 3000/-
Others	Rs. 3000/-	Rs. 6000/-
Other Country	Rs. 5000/-	Rs. 10000/-

Contact Address :**Dr. M. K. VERMA**, Coordinator**Phone** : 91 – 0771–2254352, 0771– 4062385**Fax** :**E-mail** : dicnitr@yahoo.co.in**Web-Address** :

Orissa University of Agriculture and Technology, Bhubaneswar

Training Code: [OUAT-01]

Title	: Emerging Bioinformatics Tools and Techniques in Agricultural Research.
Date	: 15th-18th January, 2008
Duration	: 4 days
Subject Area (As per List enclosed)	: Bioinformatics in Agriculture/Plant Sciences.

OBJECTIVES:

1. To provide knowledge on latest developments and trends in Bioinformatics.
2. To familiarize about popular tools and techniques of Bioinformatics and their use in Agricultural Research.

CONTENTS: Bioinformatics web resources and online tools, Sequence Analysis, Phylogeny Prediction, Creation of Agri-databases, Plant genome analysis and interpretation using statistical techniques, Proteome analysis, Computer basics and their applications in Bioinformatics.

METHODOLOGY : Lectures, Demos and Hands on sessions.

LEVEL OF PARTICIPANTS : Scientists, Research scholars and Post-Graduate students.

PREREQUISITES : Basic knowledge in Biology and Computer.

NUMBER OF PARTICIPANTS : 30

REGISTRATION FEE

Participants from	Without Accommodation	With Accommodation
India	Rs.500/ (students) Rs.750/ (others)	Accommodation charges to be paid extra as per university rules.

Contact Address

Dr.P. N. JAGADEV, Coordinator

Phone : 0674-2530418 Fax : 0674-2391424 E-mail : hodbioinformatics@yahoo.co.in Web Address : http://ouat.ac.in

Presidency College, Chennai

Training Code: [PCC-01]

Title	: Bioinformatics in drug discovery and drug development
Date	: August 1st to 14th 2007
Duration	: 12 days
Subject Area (As per List enclosed)	: Bioinformatics & Medical Sciences

OBJECTIVES:

- To expose the research scholars working on discovery of new drugs on the possible & useful applications of bioinformatics by series of expert -lectures.
- To make the participants learn relevant software's like Molegro virtual docking(CLC Bio), etc.
- To assess the trainees understanding of drug related bioinformatics software's by suitable evaluations.
- To provide the trainees manual with e mail addresses of the experts and the BIF centre for further interaction.

CONTENTS:

- Background information on drug and drug development - Prerequisites of the drug & Steps involved in the development of new drug
- Drug discovery – Definition, need for new drugs, gestation period and research budget
- Scientific methods involved in drug development – in vitro, in vivo, pre approval clinical trials post approval clinical trials.
- The application of Bioinformatics in the discovery of drugs
- Biomarker discovery – Definition, application in antitumor research, genetic basis of drug resistance.

Applications of Bioinformatics in Drug Development

- Pharmacogenomics (Genetic variation & drug efficacy) – Definition, significance of genetic variation & efficacy of drug genetic basis of variations.

- Variation in drug life cycle management – Importance of post marketing surveillance in relation to adverse drug reaction (ADR)
- Impact of human genomic project information in drug discovery & development
- The potential role of bioinformatics in discovery and development of drugs with minimal side effects but with maximum efficacy

METHODOLOGY	: Lectures and Hands on session
LEVEL OF PARTICIPANTS	: Research Scholars of Biology, Medicine, Biomedicine
PREREQUISITES	: Registered for a programme discovery / development / elated work
NUMBER OF PARTICIPANTS	: 25
Boarding & lodging arrangements etc.	: Boarding - Breakfast, Refreshments & Working lunch Lodging – at a Concessional Tariff

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 1500	Rs. 3000

Contact Address:**Prof. Dr. S. RAJARAJAN**, Coordinator

Phone : 044-28589621, Mob : 9282321575 Fax : 044-28589621 E-mail : drrajarajan@rediffmail.com Web-Address : www.bifcpresidencychennai.net.in

Pondicherry University

Training Code: [PU-01]

Title	: Application of Bioinformatics in Genome Research
Date (from ___ to ___)	: February 13-15, 2008
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Genome & Proteome analysis Computational Biology Database and data mining

OBJECTIVES: To create awareness towards application of bioinformatics among students and researchers in modern biology

CONTENTS: Bioinformatics tools, Databases, Genome Analysis, Proteome Analysis

METHODOLOGY (Lectures, Demos, : Seminars/Lectures and Hands-on
Hands on Session, Workshop/Seminar/ session
Symposia etc.)

LEVEL OF PARTICIPANTS : National

PREREQUISITES : Nil

NUMBER OF PARTICIPANTS : 100

Boarding & lodging arrangements etc. Will be arranged on request and advance payment

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		
India.		
Industry	Rs. 2500/-	
Staff	Rs. 1500/-	
Student	Rs. 1000/-	
SAARC	US\$ 75.00	US\$ 100.00
Other Countries	US\$ 200.00	US\$ 250.00

Contact Address :

Prof. P.P. MATHUR, Coordinator

Phone : 0413-2655212

Fax : 0413-2655211

E-mail : bicpu2001@yahoo.co.in

Web-Address : www.bicpu.edu.in

Rajiv Gandhi Center for Biotechnology, Trivandrum

Training Code: [RGCB-01]

Title	: In-house Training on Molecular Modeling Tools
Date	: 15-11-2007
Duration	: 1 day
Subject Area (As per List enclosed)	: Structural Bioinformatics

OBJECTIVES: To give hands on training in molecular modeling tools

CONTENTS: Protein structure prediction methods, Molecular modeling, Molecular dynamics and Docking.

METHODOLOGY : Demos and Hands on Session

LEVEL OF PARTICIPANTS : Research students

PREREQUISITES : Nil

NUMBER OF PARTICIPANTS : 25

Boarding & lodging arrangements etc. N/A

Any other relevant information, if any Nil

REGISTRATION FEE (if any):

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		

Training Code: [RGCB-02]

Title	: Genomics and Proteomics Application
Date	: 23-01-2008 to 24-01-2008
Duration	: 2 days
Subject Area (As per List enclosed)	: Genome & Proteome analysis

OBJECTIVES: Providing exposure to the tools and techniques used in the area of Genomics and Proteomics

CONTENTS: Introduction to Bioinformatics: Information resources and databases, genomic sequencing, gene identification methods, applications in drug discovery, Introduction to proteomics, protein structure prediction and applications of mass spectroscopy

METHODOLOGY : Lectures, demonstration and paper presentations

LEVEL OF PARTICIPANTS : M.Sc and above

PREREQUISITES : Nil

NUMBER OF PARTICIPANTS : 50

Boarding & lodging arrangements etc. NA

Any other relevant information, if any Nil

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 1500	

Contact Address :

Dr. SATHISH MUNDAYOOR, Coordinator

Phone : 0471-2342315 Fax : 0471-2348096 E-mail : disc@rgcb.res.in Web-Address : www.rgcb.res.in
--

Sant Gadge Baba Amravati University, Amravati

Training Code: [SGBAU-01]

Title	: Computer Basics & Applications in Bioinformatics
Date (from ___ to __)	: September 7-9, 2007
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Database and data mining

OBJECTIVES: To create awareness among participants for use of Bioinformatics tools in their research works.

CONTENTS: Introduction to Bioinformatics and Biotechnology, Internet, Creating Database, Online search Databases.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : Research Scholars, College Teachers and Scientists

PREREQUISITES : Must have basic knowledge of Computer.

NUMBER OF PARTICIPANTS : 10 – 15

REGISTRATION FEE : Rs. 500/ (including working Lunch)

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India, SAARC Countries, Other Countries, etc.	Rs. 500	Boarding and lodging as per University Guest House.

Training Code: [SGBAU-02]

Title	: Training programme on Bioinformatics & Information Technology
Date (from ___ to ___)	: December, 28-30, 2007
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Genome & Proteome analysis / Database and data mining

OBJECTIVES: To update the computer skill and knowledge of scientists & teaching faculties in the area of Bioinformatics, Information Technology & Information retrieval system.

CONTENTS: Bioinformatics & application of IT for R&D, CD ROM based databases retrieval, online database retrieval, Molecular modeling, Genomics, Proteomics, Biological Databases, Biological Sequence Analysis, Phylogeny.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : Research Scholars, Faculties from various discipline and Scientists

PREREQUISITES : Must have basic knowledge of Computer.

NUMBER OF PARTICIPANTS : 10 – 15

REGISTRATION FEE : Rs. 500/ (including working Lunch)

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 500	Boarding and lodging as per University Guest House.

Contact Address :

Dr. PRASAD A. WADEGAONKAR, Coordinator

Phone : 0721-2662207/08 Ext. 267
Fax : 0721-2662135, 2660949
E-mail : prasadwadegaonkar@rediffmail.com wadegaonkar@hotmail.com
Web-Address :

SVBPUA & T, Meerut**Training Code:** [SVBPUAT-01]

Title	: Database & software application in Biological sciences
Date (from ___ to ___)	: Sep17, 2007 to Sept 30, 2007
Duration (in number of days):	: 14 days
Subject Area (As per List enclosed)	: Database & Data mining

OBJECTIVES: i) To familiarize the computational language, Biological database in Bioinformatics

ii) Training on bioinformatics tools & software & their application indifferent fields of biological sciences

CONTENTS: Bioinformatics Web resources & tools, Role of computers and language in database, Use of software in protein and gene sequence alignment. Basics of Website development

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/ Symposia etc.) : Lectures, Demonstrations, Sequence alignment analysis using software, Hands on session

LEVEL OF PARTICIPANTS : Scientists, Research scholars, Post graduate students in Biological science/ chemical/medical

PREREQUISITES : Minimum Science Graduate

NUMBER OF PARTICIPANTS : 20

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Students Rs. 2000/- Faculty Rs. 3000/-	

Contact Address :

Dr V. K. YADAV, Coordinator

Phone : 0121-2411536

Fax : 0121-2411505/2411515

Email : Vky_59@rediffmail.com

Web-Address :

SVIMS University, Tirupati**Training Code:** [SVIMS-01]

Title	: In silico analysis of biomolecules and drug designing
Date (from ___ to ___)	: 8-10th August 2007
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Genome & Proteome analysis and Structural Bioinformatics

OBJECTIVES: To improve Bioinformatics teaching in biology teachers. To improve skills in bioinformatics applications in researchers involved in life science.

CONTENTS:

- Genomics & proteomics
- Biological sequence analysis
- Molecular modeling
- Docking studies

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, demos and hands on sessions

LEVEL OF PARTICIPANTS : Research scholars / Lecturers from universities and colleges.

PREREQUISITES : Printing of brochures, Scientific programme details and manual

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements : Working lunch, Tea will be served.
Accommodation will be provided as per the Request of participants with minimal charges

Any other relevant information, if any

REGISTRATION FEE (if any): Rs 500/-

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs 500/-	

Training Code: [SVIMS-02]

Title	: Drug designing: Problems and prospects (National Conference)
Date (from ___ to ___)	: 10th -11th Jan, 2008
Duration (in number of days):	: 2 days
Subject Area (As per List enclosed)	: Structural Bioinformatics

OBJECTIVES: 1.To update the researchers and teachers working in the area of drug design

2.To provide a platform for exchange of ideas among researchers

CONTENTS: Molecular modeling QSAR Docking

METHODOLOGY (Lectures, Demos, : Lectures, paper/poster presentations
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Researchers, Students, Teachers

PREREQUISITES : Printing of brochures, Souvenir and scientific program

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Working lunch and Tea will be served.
Accommodation as per the request of participants will be provided with minimal charges

Any other relevant information, if any

REGISTRATION FEE (if any): Rs 500/-

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs 500/-	

Contact Address

Dr. A. UMAMAHESWARI, Coordinator

<p>Phone : 0877-2287727 Fax : 0877-2286803 E-mail : aminenimaheswari@yahoo.co.in Web-Address :</p>

Sikkim State Council of Science and Technology

Training Code: [SCSTS-01]

Title	: Introduction and Scope of Computational Biology
Date (from ___ to ___)	: 17th – 19th September' 2007
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES: The number of computer technologists is growing rapidly in the state. Hence, introducing computational biology to these technocrats would help to improve the human resource in the field of Bioinformatics.

CONTENTS: Introduction to Computational Biology, Algorithm, Sequence retrieval Analysis, Scope of Computational Biology.

METHODOLOGY (Lectures, Demos, : Workshop (Lecturers and Demos)
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Graduates, Post Graduates and Ph.D. scholars, Line departments, Researchers

PREREQUISITES : Minimum Graduate with basic computer knowledge

NUMBER OF PARTICIPANTS : 25

Boarding & lodging arrangements etc. Can be arranged on request but the participants shall have to bear the expenses

Any other relevant information, if any:

REGISTRATION FEE (if any): Nil

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		Accommodation shall be arranged on request. The participants shall make the payments.

Training Code: [SCSTS-02]

Title	: Environmental Genomics and Biodiversity
Date (from __ to __)	: 19th – 21th November’ 2007
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Bioinformatics in Environment and Biodiversity

OBJECTIVES: To familiarize the participants with environmental bioinformatics and to create awareness on biodiversity.

CONTENTS: Environmental Genomics, Biological database management.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Workshop (Lecturers and Demos)

LEVEL OF PARTICIPANTS : Students, researchers , lecturers, line departments, entrepreneurs and ecologists

PREREQUISITES : Minimum graduate in life science with knowledge of computer

NUMBER OF PARTICIPANTS : 25

Boarding & lodging arrangements etc. Can be arranged on request but the participants shall have to bear the expenses

Any other relevant information, if any --

REGISTRATION FEE (if any): Nil

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		Accommodation shall be arranged on request. The participants shall make the payments.

Contact Address :

Dr. B. C. BASISTHA, Coordinator

Phone : +91-03592-205551, 228370

Fax : +91-03592-228764

E-mail : bits_skm@yahoo.com

Web-Address : www.bitsikkim.gov.in

T. M. Bhagalpur University, Bhagalpur**Training Code:** [TMBU-01]

Title	: Basics of tools & techniques in data mining in bioinformatics.
Date (from __ to __)	: 26th – 28th July'2007
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Database and Data mining

OBJECTIVES: To train participants with tools and techniques in data mining.**CONTENTS:** How data mining works, architecture for data mining, profitable applications And data mining software**METHODOLOGY** (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lecturers, demonstration and hand on session**LEVEL OF PARTICIPANTS** : Students, research scholars, teachers and technicians**PREREQUISITES** : B.Sc. and above**NUMBER OF PARTICIPANTS** : 20**Boarding & lodging arrangements etc.****Any other relevant information, if any****REGISTRATION FEE** (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	1000	2000
SAARC	1500	3000

Training Code: [TMBU-02]

Title	: Work shop on Molecular modeling
Date (from __ to __)	: 22nd – 24th November'07
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Structural Bioinformatics

OBJECTIVES: The workshop is aimed to teach the fundamentals of the computational methods of research as well as providing training in using the important software based on these areas.

CONTENTS: Introduction to Proteomics, proteins structure prediction, Bioinformatics and Molecular Modeling, Molecular Docking.

METHODOLOGY (Lectures, Demos, : Lectures, demonstration and hands on
Hands on Session, Workshop/Seminar/ session
Symposia etc.)

LEVEL OF PARTICIPANTS : Teachers, research scholars and students

PREREQUISITES : M.Sc and above

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	1000	2000
SAARC	1500	3000

Contact Address :

Dr. R. P. UPADHYAYA, Coordinator

Phone : +91-641-2501753,+91-9431215481
Fax : -2501932
E-mail : ramprakash.upadyay@rediffmail.com
Web-Address : www.bioinformatics-tmbu.org.in

Tamilnadu Agricultural University

Training Code: [TAU-01]

Title	: Training Programme on “Protein Modeling and Molecular Docking”
Date (from __ to __)	: 5-9, November, 2007
Duration	: 5 Days
Subject Area	: Computational Biology

OBJECTIVES: To impart high level training in the field of Molecular Modeling and Computer Aided Drug Design to meet the requirements of drug and pharmaceutical Industry.

CONTENTS:

- Biological Database
- Sequence Retrieval
- Protein Visualization
- Protein Modeling
- Structure Refinement and Validation
- Molecular Docking
- Receptor-Ligand Interactions

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos and Hands on Session

LEVEL OF PARTICIPANTS : Students, Research Scholars and Faculty

PREREQUISITES : M.Sc. / PhD. in Life sciences

NUMBER OF PARTICIPANTS : 12

Boarding & lodging arrangements etc. : On Request

Any other relevant information, if any:

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
Students	Rs. 1000	
Faculty, Research Scholars	Rs. 1200	

Contact Address :**DR. P. BALASUBRAMANIAN**, Coordinator,

Phone : 0422-6611453
Fax : 0422-2431672
E-mail : biotech@tnau.ac.in
Web-Address : www.cpmbtnau.org

Tropical Botanic Garden and Research Institute

Training Code: *[TBGRI-01]*

Title	: Organization of biodiversity database using Microsoft Access 2003
Date	: 16th July to 20th July 2007
Duration (in number of days):	: 5 days
Subject Area (As per List enclosed)	: Bioinformatics in Environment and Biodiversity

OBJECTIVES: To impart training to the researchers for organizing biodiversity databases using computational tools and interlinking of biodiversity information resources.

CONTENTS: Nature of biodiversity data, inventory of biodiversity databases, formulation of data format for biodiversity database organization, methods of database organization and MS access 2003.

METHODOLOGY : Lectures, Demos, Hands on Session/ workshop

LEVEL OF PARTICIPANTS : Teachers, Post Graduate and Ph.D. students

PREREQUISITES : Knowledge in biodiversity and computer operation

NUMBER OF PARTICIPANTS : 10

Boarding & lodging arrangements etc. Participants will have to bear their own expenses. However, on prior intimation, arrangements of boarding and lodging can be made

Any other relevant information, if any Nil

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 200/-	Rs. 1000/-

Training Code: [TBGRI-02]

Title	: Statistical analysis of biological data using computational tools
Date (from __ to __)	: 10th September, 2007 to 14th September, 2007)
Duration (in number of days):	: 5 days
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES: To impart training to the researchers for statistical analyzing of their research data with the help of computational tools.

CONTENTS: Nature of biological data, statistical approach in biological research, statistical analysis such as average, standard deviation, standard error, coefficient of variations, frequency distribution, one way and two way ANOVA, regression analysis, correlation analysis, T test, Duncan's Multiple Range test, etc. and creation of different types of graphic representation of data using Microsoft Excel.

METHODOLOGY : Lectures, Demos, Hands on Session/ workshop

LEVEL OF PARTICIPANTS : Teachers, Post Graduate and Ph.D. students

PREREQUISITES : Knowledge in computer operation

NUMBER OF PARTICIPANTS : 10

Boarding & lodging arrangements etc. Participants will have to bear their own expenses. However, on prior intimation, arrangements of boarding and lodging can be made

Any other relevant information, if any Nil

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 200/-	Rs. 1000/-

Training Code: [TBGRI-03]

Title	: Organisation of biodiversity databases, statistical analysis of biological data and applications of bioinformatics tools for biological data management and interpretation.
Date	: 3 rd - 23 rd January 2008
Duration (in number of days):	: 21 days
Subject Area (As per List enclosed)	: Bioinformatics in Environment and Biodiversity

OBJECTIVES: Empowering the college teachers by imparting training in biodiversity data management, statistical analysis of data in computers and interpretation of data using bioinformatics tools.

CONTENTS: Nature of biodiversity data, inventory of biodiversity databases, formulation of data format for biodiversity database organization, methods of database organization and MS Access 2003. Introduction to statistics, applications and limitations of statistics, statistical approach in biological research, statistical analysis such as average, standard deviation, standard error, coefficient of variations, frequency distribution, one way and two way ANOVA, regression analysis, correlation analysis, T test, Duncan's Multiple Range test, etc. and creation of different types of graphic representation of data using Microsoft Excel. Introduction to DNA bar coding, methodology of DNA bar coding and application of DNA bar coding.

METHODOLOGY : Lectures, Demos, Hands on Session/
workshop

LEVEL OF PARTICIPANTS : College teachers

PREREQUISITES : Knowledge in biodiversity and
computer operation

NUMBER OF PARTICIPANTS : 10

Boarding & lodging arrangements etc. : Participants will have to bear their own expenses. However, on prior intimation, arrangements of boarding and lodging can be made

Any other relevant information, if any: Nil

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation

Contact Address :**Dr. P. N. KRISHNAN**, Coordinator

Phone : 0471 2753050, 0472 2869622,
0472 2869226
Fax : 0471 2753050, 0472 2869246
E-mail : tbgri@sancharnet.in
Web-Address : www.tbgri.in
www.bioinfotbgri.org

University of Allahabad

Training Code: [BIFUA-01]

Title	: International Workshop on Computational Systems Biology
Date (from ___ to ___)	: September 25- 29, 2007
Duration (in number of days):	: Five days
Subject Area (As per List enclosed)	: Networks, Pathways and System biology

OBJECTIVES: Certain patterns in biologic sequences have been conserved during the course of evolution. Most of these have carried important biological functions. Metabolic pathways have evolutionary importance as they have been conserved among prokaryotes and among Eukaryotes. In understanding disease, the most common consideration is given to metabolic enzymes inasmuch as these proteins are the natural choice for designing drugs. The workshop is aimed to bring together molecular biologists, computational biologists and geneticists to understand and offer how to cure a disease by adopting a systems biologic approach.

CONTENTS: There will be invited Lectures from experts from different institutions (JNU, CDRI, ITRC, I I Sc, MKU, IITs to name a few) in the country. There will be lectures each day followed by demos in the Computing Labs. The last day there will be a Mini-symposium for some young academics for presenting their papers. The areas covered will be principally on , but not limited to, Metabolomics, Computational Biology, Systems Biology, Drug Designing, Functional Genomics and Molecular Modeling.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : There will be Lectures from invited speakers followed by presentations by participants in the form of a workshop and demos in the Computing labs.

LEVEL OF PARTICIPANTS : The workshop is intended for University Faculty, College teachers, Mid-level scientists, research scholars and students interested in computational biologic and Systems biologic approach to understanding human diseases as well as in the area of metabolomics.

PREREQUISITES : Students enrolled in or having passed in Master's Program in Biochemistry,

Bioinformatics, Zoology, Botany Chemistry, Computer Science and Microbiology and B.Sc. in Applied Sciences as well as research scholars pursuing thesis work in any area of Bioinformatics, especially Metabolomics.

NUMBER OF PARTICIPANTS : 20 from India and 10 from SAARC nations

Boarding & lodging arrangements etc. Students will be accommodated in student hostels. Outstation participants will be required to pay advance for booking accommodation in city hotels.

Any other relevant information, if any Announcement will be made on the web as well as by DBT- circulars and Calendar . Abstracts in the indicated area may be sent to the Coordinator by the deadline.

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
Students	Rs. 500	Rs. 750
Faculty	Rs. 1000	Rs. 2000
Participants from SAARC Nations	US \$ 200	US \$ 400

Contact Address :

Prof. DWIJENDRA K GUPTA, Coordinator

Phone : 0532- 2461861 (IIDS Office)
09335150718 (Cell)

Fax : 0532- 2445733; 0532-2461157(VC Office)

E-mail : dwijenkumar@rediffmail.com
dwijenkumar@gmail.com

Web-Address : www.alldunipio.org

University of Calicut

Training Code: [CAUBT-01]

Title	: Application of Bioinformatics tools in Biological Research
Date (from ___ to ___)	: August 6 to 9, 2007
Duration (in number of days):	: 4 days
Subject Area (As per List enclosed)	: Genomics & proteomics

OBJECTIVES: To create awareness on the application of Bioinformatics in biological research

CONTENTS: Bioinformatics: Genomics and Proteomics, Basic concept in database, Molecular modeling, sequence analysis and primer design

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos and Hands on training

LEVEL OF PARTICIPANTS : Postgraduate teachers/research scholars/PG students

PREREQUISITES : Basic knowledge in Biology and Computer

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. As per University rules

Any other relevant information, if any

REGISTRATION FEE (if any): As per University rules

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		

Contact Address :

Dr. M. V. JOSEPH, Coordinator

<p>Phone : 0494-2401972</p> <p>Fax : 0494-2400269</p> <p>E-mail : headandcoordinator@rediffmail.com; hdbiotech@sify.com</p> <p>Web-Address : http://www.universityofcalicut.info/</p>
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University of Hyderabad, Hyderabad

Training Code: [HU-01]

Title	: Instructional Workshop in Bioinformatics
Date (from ___ to __)	: From December 16, 2007 to 17-Dec-07
Duration (in number of days):	: Two days
Subject Area (As per List enclosed)	: Structural Bioinformatics

OBJECTIVES: This workshop aims providing training to the participants in application of statistical methods, Mathematical algorithm and biocomputing in working with the applications of Bioinformatics that include structure prediction, molecular modeling, docking and Drug design.

CONTENTS:

Statistical methods and Mathematical Algorithms for

- Molecular modeling and Protein Structure Prediction (Homology Modeling,, Threading, De Novo).
- Molecular mechanics
- Molecular Dynamics
- Molecular Docking
- Drug Design

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Workshop-Modeling and Drug Design

LEVEL OF PARTICIPANTS : Any postgraduate/ doctoral candidates

PREREQUISITES : Knowledge of computers and basic biology or mathematics or statistics or discipline related to bioinformatics.

NUMBER OF PARTICIPANTS : 40

Boarding & lodging arrangements etc. Arranged for the participants seeking the accommodation.

Any other relevant information, if any The workshop carried out Jointly with C. R. Rao Advanced Institute of Mathematics, Statistics and Computer Sciences (AIMSCS), and cosponsored by Centre for DNA Finger Printing and Diagnostics (CDFD) and Tata Consultancy Services (TCS)

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
Students	Rs. 2000/-	Additional as per the type of accommodation required
Faculty from Academic Institutions	Rs. 5000/-	
Industry participants	Rs.10000/-	

Training Code: [HU-02]

Title	: Instructional Workshop in Bioinformatics
Date (from ___ to ___)	: From December 18, 2007 to 19-Dec-07
Duration (in number of days):	: Two days
Subject Area (As per List enclosed)	: Genome & Proteome analysis

OBJECTIVES: This workshop aims providing training to the participants in application of statistical methods, Mathematical algorithm and biocomputing in working with the applications of Bioinformatics that include sequence analysis, pharmacogenomics, immunoinformatics.

CONTENTS: Statistical methods and Mathematical Algorithms for

- microarray gene expression and proteomics.
- Biocomputing
- Structural Databases and Alignment Tools

METHODOLOGY (Lectures, Demos, : Workshop-Proteomics and Genomics Hands on Session, Workshop/Seminar/Symposia etc.)

LEVEL OF PARTICIPANTS : Any postgraduate/ doctoral candidates

PREREQUISITES : Knowledge of computers and basic biology or mathematics or statistics or discipline related to bioinformatics.

NUMBER OF PARTICIPANTS : 40

Boarding & lodging arrangements etc. Arranged for the participants seeking the accommodation.

Any other relevant information, if any The workshop carried out Jointly with C. R. Rao Advanced Institute of Mathematics, Statistics and Computer Sciences (AIMSCS), and cosponsored by Centre for DNA Finger Printing and Diagnostics (CDFD) and Tata Consultancy Services (TCS)

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
Students	Rs. 2000/-	Additional as per the type of accommodation required
Faculty from Academic Institutions	Rs. 5000/-	
Industry participants	Rs.10000/-	

Contact Address :**Prof. ANAND K. KONDAPI**, Coordinator**Phone** : 040-23134571**Fax** : 040-23010145**E-mail** : akksl@uohyd.ernet.in,
bioinformaticsuoh@yahoo.com**Web-Address** :

University of Jammu

Training Code: [JUBIF-01]

Title	: Workshop on “Application of Bioinformatics tools in analyzing genomes and proteomes”
Date (from __ to __)	: 3rd December to 5th December 2007
Duration (in number of days)	: 3 days
Subject Area (As per List enclosed)	: Genome & Proteome analysis

OBJECTIVES: Create awareness among the students and faculty regarding the basics of bioinformatics and its applications in genome and proteome analysis.

CONTENTS:

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : 1. Lectures
2. Demonstrations

LEVEL OF PARTICIPANTS : 1. Research Scholars
2. Faculty

PREREQUISITES : Biology background

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. University Guest House

Any other relevant information, if any

REGISTRATION FEE (if any): Rs. 500/- if approved by the DBT

Participants from	Without Accommodation	With Accommodation
(India, SAARC Countries, Other Countries, etc.)		

Contact Address :

Prof. MANOJ K. DHAR, Coordinator BIF,

<p>Phone : 0191-2456534 Fax : 0191-2456534 E-mail : manojkdhar@rediffmail.com, hodbiotech@jammuuniversity.in Web-Address : www.jammuuniversity.in</p>

University of Kalyani, Kalyani

Training Code: [KU-01]

Title	: National workshop on Structural Bioinformatics
Date (from ___ to ___)	: 28th –30th November,2007
Duration (in number of days)	: Three days
Subject Area (As per List enclosed)	: Structural Bioinformatics

OBJECTIVES: To train students /scientists in this subject especially from this locality.

CONTENTS: Macromolecule –ligand /inhibitor interaction, drug design

METHODOLOGY (Lectures, Demos, : Lecture and Demos
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Scientists/Teachers and research scholars

PREREQUISITES : M.Sc.

NUMBER OF PARTICIPANTS : Twenty

Boarding & lodging arrangements etc. If necessary ,board and lodging would be provided

Any other relevant information, if any Overstaying would allow on the basis of availability.

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
Research Scholar	Rs. 750.00	Rs.1000.00
Scientists/Teachers	Rs. 1000.00	Rs.1600.00

Training Code: [KU-02]

Title	: National workshop on System Biology
Date (from ___ to ___)	: 18th –20th February,2008
Duration (in number of days):	: Three days
Subject Area (As per List enclosed)	: Network, Pathways and System Biology

OBJECTIVES: To give a state of the art view and train the students /scientists in this subject.

CONTENTS: Details of present days system biology

METHODOLOGY (Lectures, Demos, : Lecture and Demos
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Scientists/Teachers and research scholars

PREREQUISITES : M.Sc.

NUMBER OF PARTICIPANTS : Twenty

Boarding & lodging arrangements etc. If necessary ,board and lodging would be provided

Any other relevant information, if any Overstaying would allow on the basis of availability.

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
Research Scholar	Rs. 750.00	Rs.1000.00
Scientists/Teachers	Rs. 1000.00	sRs.1600.00

Contact Address :
Dr. ALPANA SEAL, Coordinator

<p>Phone : 9830795655(M);033 2582 3405(o);033 2582 8220(Ext.293)(o); 033 2321 2106, Fax : 033-2582 8282 E-mail : btis_ku@yahoo.co.in;alpana_seal@hotmail.com Web-Address : None</p>

University of Kerala

Training Code: [KUBIF-01]

Title	: Seminar on Bio-sequence Analysis
Date (from ___ to __)	: 15-Jun-07
Duration (in number of days):	: One day
Subject Area (As per List enclosed)	: Genome & Proteome analysis

OBJECTIVES: To introduce to latest computational techniques for analysis of bio-sequences, both genomic and proteomic.

CONTENTS: miRNA Prediction, Gene finding using DSP, Protein subcellular localization prediction, CGR signatures of sequences

METHODOLOGY (Lectures, Demos, : Seminar
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Scientist, Research scholars,
Teachers, PG students

PREREQUISITES : Exposure to sequence analysis at basic
level

NUMBER OF PARTICIPANTS : 100

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
1) India	Rs. 200/-	-
2) SAARC	US\$ 50/-	US\$ 200/-
3) Others	US\$ 75/-	US\$ 250/-

Training Code: [KUBIF-02]

Title	: SciLab for Life Scientist
Date (from ___ to ___)	: 20-Jul-07
Duration (in number of days):	: One day
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES: Give hands on training in SciLab, a free software for technical computing, to those working in life science research

CONTENTS: Basic arithmetic operations in SciLab, Basic statistical computing, Matrix operations, Graph plotting, Overview and advanced features

METHODOLOGY (Lectures, Demos, : Lectures, Workshop
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Scientist, Research scholars, Life
science students

PREREQUISITES : Basic computer skills

NUMBER OF PARTICIPANTS : 25

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
1) India	Rs. 400/-	-
2) SAARC	US\$ 75/-	US\$ 250/-
3) Others	US\$ 100/-	US\$ 300/-

Training Code: [KUBIF-03]

Title	: Workshop on Molecular Visualization
Date (from ___ to ___)	: 17-Aug-07
Duration (in number of days):	: One day
Subject Area (As per List enclosed):	Genome & Proteome analysis

OBJECTIVES: To provide hands on training in visualization of proteins

CONTENTS: Hands on training on Rasmol, SWISS PDB viewer

METHODOLOGY (Lectures, Demos, : Lectures, Workshop
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Scientist, Research scholars, Students
working with structure of proteins

PREREQUISITES : Basic computer skill, Basic knowledge
in proteomics

NUMBER OF PARTICIPANTS : 40

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
1) India	Rs. 400/-	-
2) SAARC	US\$ 75/-	US\$ 250/-
3) Others	US\$ 100/-	US\$ 300/-

Training Code: [KUBIF-04]

Title	: Perl for Bioinformatics
Date (from ___ to ___)	: 14-Sep-07
Duration (in number of days):	: One day
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES: Provide hands on training in perl, to enable the participants in writing computer programs for sequence analysis

CONTENTS: Perl programming language, Basic data types and control structures, Examples using bio-sequences, Introduction to Bioperl

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Workshop

LEVEL OF PARTICIPANTS : Scientist, Research scholars, Life science and computer science students

PREREQUISITES : Basic computer skill, Basic knowledge in proteomics

NUMBER OF PARTICIPANTS : 40

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
1) India	Rs. 400/-	-
2) SAARC	US\$ 75/-	US\$ 250/-
3) Others	US\$ 100/-	US\$ 300/-

Training Code: [KUBIF-05]

Title	: HMM for Bioinformatics
Date (from ___ to ___)	: 27-Oct-07
Duration (in number of days):	: One day
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES: To expose participants to basic concepts of Hidden Markov Models and its application in Bioinformatics

CONTENTS: Markov chain, Hidden Markov Models, Four basic problems, Application in gene finding, Protein family/motif identification

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Seminar and demo

LEVEL OF PARTICIPANTS : Students, researchers and teachers interested in usage of HMM

PREREQUISITES : -

NUMBER OF PARTICIPANTS : 100

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
1) India	Rs. 200/-	-
2) SAARC	US\$ 50/-	US\$ 200/-
3) Others	US\$ 75/-	US\$ 250/-

Training Code: [KUBIF-06]

Title	: Indica Bioinformatica 08
Date (from ___ to ___)	: 7-8 February 2008
Duration (in number of days):	: Two days
Subject Area (As per List enclosed)	: Genome & Proteome analysis, Computational Biology, Structural Bioinformatics, system biology, Bioinformatics in Medical Sciences

OBJECTIVES: To provide a platform for sharing the new research initiatives in bioinformatics and computational biology

CONTENTS: Genome & Proteome Analysis, Computational Biology, Structural Bioinformatics, System Biology, Computer Aided Drug Design

METHODOLOGY (Lectures, Demos, : Lectures, Seminar Hands on Session, Workshop/Seminar/ Symposia etc.)

LEVEL OF PARTICIPANTS : Scientist, Research scholars

PREREQUISITES : Knowledge in bioinformatics and computational biology

NUMBER OF PARTICIPANTS : 200

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
1) India	Rs. 800/-	-
2) SAARC	US\$ 150/-	US\$ 500/-
3) Others	US\$ 200/-	US\$ 600/-

Contact Address :

Dr. ACHUTHSANKAR S. NAIR, Director,

<p>Phone : 0471-2412759 Fax : 91-471-2307158 E-mail : sankar.acuth@gmail.com Web-Address : www.cbi.keralauniversity.edu</p>
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University of Madras

Training Code: [UM-01]

Title	: Three dimensional X-ray crystal structure determination of biomolecules
Date (from ___ to ___)	: 1st to 3rd August 2007
Duration (in number of days):	: Four days
Subject Area (As per List enclosed)	: Structural Bioinformatics

OBJECTIVES:

1. To provide a curriculum development program to strengthen and enhance awareness in Structural Bioinformatics through effective science education programs.
2. To train highly skilled professionals for the biotechnology sector, and to provide bioinformatics experts who can focus on the health-care aspects of diverse ethnic communities, and to study how health technologies, organizational structures and processes, and various social factors impact on the health and well being of people.
3. To provide research and educational programs to support the efforts of local biotechnology companies in areas such as plant genomics, health and translational research, specifically with gene-related diseases, functional genomics, and proteomics.

CONTENTS:

- Seminar
 - Theory/Demos
 - Workshop/Hands on training
- to train a whole generation of specialist work-force to enable biotechnology methods to be understood, and applied by practitioners in a wide range of subject areas.
 - To promote awareness, communication and collaboration in all areas of biotechnology.
 - To generate a database to provide informed opinions on biotechnology to various state and central government bodies, as well as to national and transnational organizations.

Our objective is to bring the advances in cutting-edge biotechnology and related science education not only to students and teachers in the academia, but also to workers in industry, and ultimately to the man on the street. The target goal of the centre is to create and maintain appropriate databases that would accelerate the discovery process to facilitate acquisition of fresh biological insights as well as to create a national and global perspective from which unifying principles in biology could be discerned and disseminated to the wider society at large.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Bioinformatics Seminar 1-8-2007
Theory/ Demos 2-8-2007
Hands on Session, Workshop 3-8-2007

LEVEL OF PARTICIPANTS : Teachers in the Universities/Colleges, Scientists, Technocrats, Research Scholars, Post graduates, Graduates in Biotech/Bioinformatics

PREREQUISITES : Biology, Biotechnology, Bioinformatics, computational biology,

NUMBER OF PARTICIPANTS : 30

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):Rs.1000/-

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India		Accommodation shall be made available in the University hostels/Guest house for all participants

Training Code: [UM-02]

Title	: Genome, proteome analysis of viruses of shrimp
Date (from ___ to ___)	: 7th to 9th January 2008 (Genome, proteome analysis of viruses of shrimp)
Duration (in number of days):	: Four days
Subject Area (As per List enclosed)	: Genome & Proteome analysis

OBJECTIVES:

1. To provide a curriculum development program to strengthen and enhance awareness in this area (Structural Bioinformatics, Genome & Proteome analysis) through effective science education programs.
2. To train highly skilled professionals for the biotechnology sector, and to provide bioinformatic experts who can focus on the health-care aspects of diverse ethnic communities, and to study how health technologies, organizational structures and processes, and various social factors impact on the health and well being of people.
3. To provide research and educational programs to support the efforts of local biotechnology companies in areas such as plant genomics, health and translational research, specifically with gene-related diseases, functional genomics, and proteomics.

CONTENTS:

- Seminar
- Theory/Demos
- Workshop/Hands on training
- to train a whole generation of specialist work-force to enable biotechnology methods to be understood, and applied by practitioners in a wide range of subject areas.
- to promote awareness, communication and collaboration in all areas of biotechnology.
- To generate a database to provide informed opinions on biotechnology to various state and central government bodies, as well as to national and transnational organizations.

Our objective is to bring the advances in cutting-edge biotechnology and related science education not only to students and teachers in the academia, but also to workers in industry, and ultimately to the man on the street. The target goal of the centre is to create and maintain appropriate databases that would accelerate the discovery process to facilitate acquisition of

fresh biological insights as well as to create a national and global perspective from which unifying principles in biology could be discerned and disseminated to the wider society at large.

METHODOLOGY (Lectures, Demos, : Bioinformatics Seminar
Hands on Session, Workshop/Seminar/ 7-1-2008
Symposia etc.) Theory/ Demos 8-1-2008
Hands on Session, Workshop
9-1-2008

LEVEL OF PARTICIPANTS : Teachers in the Universities/Colleges,
Scientists, Technocrats, Research
Scholars, Post graduates, Graduates
in Biotech/Bioinformatics

PREREQUISITES : Biology, Biotechnology, Bioinfor-
matics, computational biology,

NUMBER OF PARTICIPANTS : 30

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):Rs.1000/-

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India, SAARC Countries Other Countries etc.		Accommodation shall be made available in the University hostels/Guest house for all participants

Contact Address :

Dr P. RAMASAMY, Coordinator

Prof. D. VELMURUGAN, Joint Coordinator

Phone : 91-44-22351269 Ext. 229

Fax :

E-mail : ramasamy_p@hotmail.com,
d_velu@yahoo.com

Web -Address :

University of Pune

Training Code: [PUNE-01]

Title	: Knowledge Discovery in Life Sciences
Date (from ___ to __)	: 17-21 Dec, 2007
Duration (in number of days):	: 5 days
Subject Area (As per List enclosed)	: Bioinformatics in Medical Sciences

OBJECTIVES: Sharing the knowledge & the state of the art techniques in identification of target driven by genome and proteomes and designing of new chemical entities as lead in drug discovery process. Creating quality manpower for teaching and research jobs in academia & industry.

CONTENTS: Methodology of drug designing using bio and chemoinformatics tools and databases.

METHODOLOGY (Lectures, Demos, : Workshop
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Final year M.Sc/B.tech biotechnology/
pharmacology/research fellows/
teachers in life sciences, physical
sciences & medical sciences.

PREREQUISITES : Basic knowledge in Biology, chemistry
& computer usage.

NUMBER OF PARTICIPANTS : 30-40

Boarding & lodging arrangements etc. Not covered

Any other relevant information, if any

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation		With Accommodation
India	Academia 3000	Industry 5000	No Accommodation provided
SAARC	400 (USD)		
Other Countries	600 (USD) (Inclusive of course material and lunches during workshop)		

Contact Address :

Dr. INDIRA GHOSH, Coordinator,

Phone : +91 20 2569 0195 , +91 20 25692978

Fax : 9.12026E+11

E-mail : director@bioinfo.ernet.in ,

Indira@bioinfo.ernet.in

Web-Address : //bioinfo.ernet.in/

University of Rajasthan, Jaipur

Training Code: [UOR-01]

Title	: Bioinformatics: Introduction and Applications
Date (from ___ to ___)	: 07 to 09 February 2008
Duration (in number of days):	: 3 days
Subject Area (As per List enclosed)	: Bioinformatics in Agriculture and Plant Sciences

OBJECTIVES: To familiarize the participants with the concept and applications of bioinformatics in modern day Life Science

CONTENTS: Tools of Bioinformatics
Primary and Secondary Data base
Sequence analysis

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demonstrations Hands on sessions

LEVEL OF PARTICIPANTS : M.Sc. and Ph.D. students or Faculty

PREREQUISITES : B.Sc./M.Sc./Ph.D.

NUMBER OF PARTICIPANTS : 15-20

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs. 500 (with Lunch)	Rs. 1000/-

Contact Address :
Professor S.L. KOTHARI, Coordinator

Phone : 0141 2703439, 2554338 Fax : 0141 2703439 E-mail : slkothari@lycos.com, Kothari-sl@uniraj.ernet.in Web-Address :
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Vidyasagar University

Training Code: [VU-01]

Title	: National Workshop on Application of Bioinformatics in Molecular Modeling, Data Analysis and System Biology
Date (from ___ to __)	: 25/ 7/07 – 26 / 7/07
Duration (in number of days):	: Two days
Subject Area (As per List enclosed)	: Structural Bioinformatics

OBJECTIVES: The course is basically aimed to give a brief overview about the structural aspects of Bioinformatics to PG students of biological sciences.

CONTENTS: Comparison of protein sequences through algorithm and / software's, multiple sequence alignment of proteins, structural comparison of proteins, drug designing. Brief overview will also be given to aspects of protein folding, methods of resolving 3D structural parts.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : PG students of biological sciences

PREREQUISITES : Basic Knowledge on Computer

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Boarding at University Guest House on payment basis.

Any other relevant information, if any -

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 200.00	Rs. 300.00

Training Code: [VU-02]

Title	: National Workshop on Application of Bioinformatics in Molecular Modeling, Data Analysis and System Biology
Date (from ___ to ___)	: 11/ 9 /07 - 13/ 9 /07
Duration (in number of days):	: Three days
Subject Area (As per List enclosed)	: Genome & Proteome analysis

OBJECTIVES: This course has been designed for the teachers of different Colleges and Universities as this field is one of the major thrust areas and requires expertise on the basics of the subject. Analysis of the genome is increasingly gaining importance after completion of Human Genome Project, and also is becoming important to find out what proteins the genome codes for.

CONTENTS: Name of the genome, similarities/homology of related groups, finding the extent of homology, searching for coding and non coding regions open reading frames; global, local and multiple alignments, DNA-protein interactions; Proteome, Basic idea about protein structure, motifs, domain, working with VMD, handling pdb files, determination of 3D structure, matrices, RMS deviations, least square, distance matrix, superimposition of protein structures, multiple structure alignment of the ARS family using Psi-blast, prediction of protein structure.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos and Hands on session

LEVEL OF PARTICIPANTS : College and University teachers

PREREQUISITES : Basic Knowledge on Computer

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Boarding at University Guest House on payment basis.

Any other relevant information, if any -

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs: 500.00	Rs: 700.00

Training Code: [VU-03]

Title	: Workshop on Application of Bioinformatics in Molecular Modeling, Data Analysis and System Biology
Date (from ___ to ___)	: 27-28/ 11 / 07
Duration (in number of days):	: Two days
Subject Area (As per List enclosed):	Database and data mining

OBJECTIVES: Recent thrust in genomics and proteomics are generating enormous amounts of data, which needs to be properly organized for user-friendly retrieval and analysis of the desired data. The course is basically meant for higher secondary school teachers those who are wishing to pursue a carrier in research, will also help to show how to procure and utilize this huge array of information for their work.

CONTENTS: Research paper databases, pubmed, cross references like Entrez; Genomic data mining, NCBI database, ESTs, ORFs etc. Tools like MIT Genscan, Weizman gene card, Human genome project genome browser, EMBL, Ensemble, Parametric Sequence analysis in proteomic datamining, Expasy, ProtScale, Psiblast to find distantly related proteins.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : Higher secondary school teachers

PREREQUISITES : Basic Knowledge on Computer

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Boarding at University Guest House on payment basis.

Any other relevant information, if any -

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 250	Rs. 350

Training Code: [VU-04]

Title	: Workshop on Application of Bioinformatics in Molecular Modeling, Data Analysis and System Biology
Date (from ___ to ___)	: 8/ 01 / 08 – 9 / 01 / 08
Duration (in number of days):	: Two days
Subject Area (As per List enclosed)	: Evolution & Phylogeny

OBJECTIVES: Since Charles Darwin had put forward the theory of evolution and in this regard much study has been done. But the current thrust is to measure the evolutionary process in molecular level. Bioinformatics will lead the path of fact finding by analyzing the data. This course mainly aimed for the 10+2 level students.

CONTENTS: Brief idea about gene, gene expression, mutation, homology, structural Bioinformatics, sequence alignment, comparison and dendogram analysis, hands on approach of constructing a phylogenetic tree.

METHODOLOGY (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Lectures, Demos and Hands on session.

LEVEL OF PARTICIPANTS : H. S. students of Science from different schools

PREREQUISITES : Basic Knowledge on Computer

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Boarding at University Guest House on payment basis.

Any other relevant information, if any -

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
	Rs. 100	Rs. 200

Contact Address :

Prof. B. R. PATI, Coordinator, BIF

Phone s: 03222 – 276555 /554 (Ext – 477)

Fax : 03222-275329 / 264338

E-mail : brpati@yahoo.com

Web-Address :

West Bengal University of Technology, Kolkata**Training Code:** [WBUT-01]

Title	: Using R for BioStatistics
Date (from ___ to ___)	: June 22-23, 2007
Duration (in number of days):	: Two days
Subject Area (As per List enclosed)	: Bioinformatics in Environment and Biodiversity

OBJECTIVES: Familiarization and use of Statistical methodologies for interpreting data sets in areas of environment and biodiversity. R is available in Open Source and hence would be given as a CD to each of the workshop participants who would be able to set up once they go back to their respective institutions.

CONTENTS:

METHODOLOGY (Lectures, Demos, : Lecture, Hands on Session
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Lecturer, Pre and Post Doctoral
students, Postgraduate students

PREREQUISITES :

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs.2000	Rs.2500
SAARC	US\$150	US\$200

Training Code: [WBUT-02]

Title	: Introduction to Qt : Developing applications in Computational Biology
Date (from ___ to ___)	: July 20-21, 2007
Duration (in number of days):	: Two days
Subject Area (As per List enclosed)	: Computational Biology

OBJECTIVES: A workshop that would showcase what Qt works. Explain the finer points in QT/C++ and its power API to do various kind of software project of highest standards. Qt API includes modules for UI, Networking, SQL, XML, SVG, and Open GL. It supports and comes with RAD tools.

CONTENTS: Overview of Qt- What can be done. Introduction to Qt programming – How can it be done?

METHODOLOGY (Lectures, Demos, : Lecture, Hands on Session
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Lecturer, Pre- and Post- Doctoral students, Postgraduate students

PREREQUISITES :

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc.

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India	Rs.2000	Rs.2500
SAARC	US\$150	US\$200

Training Code: [WBUT-03]

Title	: Use of ARB for Phylogenetic Analysis
Date (from ___ to ___)	: August 20-21, 2007
Duration (in number of days):	: Two days
Subject Area (As per List enclosed)	: Genome Analysis

OBJECTIVES: Familiarization and use of ARB software for analysing sequence data.

CONTENTS :

METHODOLOGY (Lectures, Demos, : Lecture, Hands on Session
Hands on Session, Workshop/Seminar/
Symposia etc.)

LEVEL OF PARTICIPANTS : Lecturer, Pre- and Post- Doctoral
students, Postgraduate students

PREREQUISITES :

NUMBER OF PARTICIPANTS : 20

Boarding & lodging arrangements etc. Hostel accommodation is available

Any other relevant information, if any

REGISTRATION FEE (if any):

Participants from (India, SAARC Countries, Other Countries, etc.)	Without Accommodation	With Accommodation
India SAARC	Rs.2000 US\$150	Rs.2500 US\$200

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NOMINATION FORM FOR TRAINING

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Name of Organization/Department : _____

Category : _____

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Telephone No. : _____

Fax No. : _____

E-mail Address : _____

Computer Related Experience : _____

Details of Experience : _____

Signature of Applicant**INSTRUCTION TO CANDIDATE**

- 1. The complete application should be sent to the Co-ordinator of the respective bioinformatics centre at least a month before commencement of the training.*
- 2. Incomplete application form and the application not submitted through proper channel are likely to be rejected.*
- 3. Please contact the co-ordinator for any requirements of course fee (if any), accommodation arrangements, etc.*