

**BIOINFORMATICS**

**TRAINING**

**CALENDAR**

**2009-2010**



**Department of Biotechnology**

**Ministry of Science & Technology**

**Govt. of India**

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## FOREWARD

India was the first Country to establish National Bioinformatics Network (BTISnet) in the form of a Distributed Network in 1986-87. The network initially helped the researchers to access information resources through the state of the art computer and communication network of BTISnet. Today the network is covering more than 150 institutions, spread geographically all over the country. The Network in creating human resource in Bioinformatics and carrying out research in different areas of Bioinformatics and computational Biology. Scientists of this network have published more than 2000 research papers in peer reviewed journals in last five years in this area and helped in publishing more than 4000 research papers in other fields of biology and biotechnology. The network has also established high speed Bio Grid of 12 major institutions, 6 Interactive Graphics Facilities and 6 M.Sc/ M. Tech. courses in Bioinformatics and Computational Biology.

The department is now encouraging consortium based R&D projects like bioinformatics applications in Tuberculosis, Kala-azar, Rice, Mango, etc. These Projects are being implemented in association with the Ministry of Health, ICMR and ICAR. The bioinformatics will help in integration of vast primary information resources for extracting in depth knowledge which are otherwise not possible by other means. The knowledge which is generated out of bioinformatics shall be validated in association of wet-lab experimental biologists for practical applications.

This year BTISnet centres are organizing 139 short term trainings/ workshops in nine major subject areas in bioinformatics namely Knowledge Discovery from Data, Computational & Structural Bioinformatics, Network Pathways & Systems Biology, Genome & Proteome Analysis, Bioinformatics with respect to Medical Sciences, Agriculture/ Plant Sciences, Environment & Biodiversity and General Bioinformatics Trainings. All these details are compiled in this publication. We hope that the publication will be useful for the users for availing required training on the latest development in these areas. The electronic version of this publication is also available on <http://www.btisnet.gov.in>

**(Dr. M.K. Bhan)**  
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## PREFACE

Biotechnology Information System Network (BTISnet) of the Department of Biotechnology is a major distributed network spreading across the Nation. A total of 155 centres are as part of the network. The centres are at various levels which include an apex centre in DBT, Centres of Excellence, Distributed Information Centres, Distributed Information Sub centres and Bioinformatics Infrastructure Facilities (BIF) for Biology Teaching through Bioinformatics (BTBI). More details about these network activities can be seen through <http://www.btisnet.gov.in>.

As a commitment to the program the network centres are offering short term trainings / workshops in Bioinformatics and Computational Biology for the benefit of research community. During the year 2009-10, 139 such programs are envisaged in nine different subject areas. Subject specific trainings can be identified from the “List of Trainings/Workshops” given in the beginning of calendar.

To participate in these activities one would like to approach the centres by sending the filled application as per the format, available at the end of the booklet. List of BTISnet centres with their complete address is also given for further interaction with them directly. Some centres may also advertise through newspapers and websites on their training programs. A list showing “Calendar at a Glance” is also appended for the purpose of wall papers and display boards.

Electronic version of the copy may be seen at <http://www.btisnet.gov.in/calendar.htm>. we hope that the collection of trainings/workshops in Bioinformatics will be helpful for the Bioinformatics interested researches. Comments and Suggestions on the training courses are most welcome and to be sent to [madhan@dbt.nic.in](mailto:madhan@dbt.nic.in)

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**LIST OF  
TRAININGS/  
SYMPOSIA/  
WORKSHOP**



**LIST OF TRAININGS/ WORKSHOPS**

Sl. No.	Training/ Workshop	Code No.	Page No.
<b>I KNOWLEDGE DISCOVERY FROM DATA (KDD)</b>			
1	Workshop on Sequence Analysis and Molecular Simulations	AU – 01	32
2	Bioinformatics: Recent Trends in Biological sequence analysis	BIFGU- 03	78
3	Computational Approaches in Biological Data Mining	BV – 01	37
4	Bioinformatics Tools and Techniques for Gene and Protein Analysis	CARI – 01	52
5	Data mining	HCC-04	87
6	Recent advances in ESTs Analysis & their annotation	IISR – 02	92
7	Bioinformatics techniques for gene and protein analysis	KAU – 01	98
8	Sequence Analysis & Alignment	NEIST – 02	130
9	Bioinformatics tools & techniques for gene and protein analysis	SGPGI – 02	152
10	Biological Database creation, Bioinformatics Data Abstraction and Data Mining	SSCST – 01	162
11	Statistical Analysis of Biological Data using Computational Tools	TBGRI – 02	173
<b>II COMPUTATIONAL &amp; STRUCTURAL BIOINFORMATICS</b>			
12	Computational & Structural Bioinformatics	DMCS – 01	64
13	Computational Approach in Biological Databases	DAU – 01	68
14	Workshop on 'Application of Molecular Simulation and Dynamics to Predict and Model Biological Molecules and System.	KALYANI – 02	97
15	Computational analysis of biomacromolecular structures	KAU – 02	99
16	National Conference on Structural Bioinformatics 2010	MSU – 03	109
17	National Workshop on Bioinformatics & NA Structure Analyses	PC – 06	142
18	Workshop on Recent Trends in Structural Bioinformatics	PU – 01	143
19	Computational approaches to Molecular Biology	SGBAU – 02	154
20	Drug Discovery Informatics	SVC – 01	169
21	National workshop on Structural Bioinformatics	SVIMS – 01	170
22	Structural Bioinformatics	VU – 03	177

**III NETWORK PATHWAYS & SYSTEMS BIOLOGY**

23	Bacterial Genomics and systems Biology	BHU – 01	48
24	Systems Biology approach for Network construction and metabolic pathway analysis	HCC-01	84
25	National Workshop on “Computational Tools and Analysis of Gene Regulation	NDRI – 01	123
26	Short Term Training Course On Bioinformatics and System Biology	LU – 01	104

**IV GENOME AND PROTEOME ANALYSIS**

27	In silico Protein Engineering	BU – 03	41
28	Genome and Proteome Analysis	BUC-03	46
29	Protein Structure Prediction and Docking Studies	BUC-04	47
30	Bioinformatics Application on Genome and Proteome Analysis	CCG – 01	55
31	Biotechnology and bioinformatics tools for Genomics and Proteomics	DIBRUUNIV – 01	70
32	Understanding Structure-Function relationships in Proteins	GNDU – 01	83
33	Genome and Proteome Analysis	HCC-02	85
34	Protein Structure Prediction and Docking Studies	HCC-03	86
35	Functional and Structural Proteomics : An In Silico approach	HPU-01	88
36	Bioinformatics in Genomics and Proteomics	IITK – 01	94
37	Molecular Modeling of proteins	ILS – 01	95
38	National Workshop on Bioinformatics: Protein-Protein Interaction	PC – 03	139
39	National Workshop on Bioinformatics & Molecular Modelling	PC – 04	140
40	Hands on training in Molecular modeling	RGCB – 02	146
41	Workshop on “Bioinformatics in Genomics and Proteomics”	SAC – 01	160
42	Paper presentation on “Genome and proteome Analysis	SAC – 02	161
43	Comparative Genomics and Protein Structure Analysis	SSCST – 02	163
44	Laboratory Training Program on “Genomics and Proteomics”	SKUA – 02	166
45	Training Programme on “Protein Structure Prediction and Docking”	TAU – 01	171

46	Bioinformatics Tools for Sequence Analysis, Molecular Interaction and Visualization and Phylogenetic Studies	TBGRI – 03	174
47	Genome & Proteome	VU – 02	176

#### **V BIOINFORMATICS WITH RESPECT TO MEDICAL SCIENCES**

48	Bioinformatics and its Applications in Drug Designing	BIFAUS – 01	35
49	Role of Chemoinformatics, Pharmacoinformatics & Bioinformatics in Rational Drug Designing	BP – 02	50
50	Drug Design Approaches: Molecular Modeling, Computational Chemistry and RNAi applications	BP – 03	51
51	Structure Based Drug Designing	BUC-02	45
52	In silico Molecular Modeling and Drug designing	DMCS – 03	66
53	Molecular Modeling and Drug Designing	YSPUHF-02	73
54	National level workshop on “Drug validation through Insilico analysis”	LDC – 01	103
55	12 <sup>th</sup> Workshop on ‘Biomedical Informatics and Communication’	MGIMS – 01	114
56	eBiotech Workshop (Gene to drug through dry lab-wet lab interaction)	MLACW – 01	118
57	Molecular modeling and drug designing: A structural biology approach	UNB – 01	121
58	Cheminformatics & Computer Aided Drug Designing	NEIST – 01	129
59	National Workshop on Bioinformatics: Drug Modelling	PC – 02	138
60	Workshop on Recent Advancements in Structure Based Drug Design Methods	PU – 02	144
61	National Workshop on “ 3-D structure Prediction of Drug targeted Proteins”	SKUA – 03	167
62	Molecular Diagnosis of Infectious diseases	SKUASTK – 01	149

#### **VI BIOINFORMATICS WITH RESPECT TO AGRICULTURE/ PLANT SCIENCES**

63	Workshop on Bioinformatics for Cyanobacteriologists	BDU – 01	43
64	Bioinformatics in Plant Sciences	CCSHAU – 01	54
65	Recent Trends in Plant Biotechnology and Bioinformatics	CIMAP – 02	58
66	Development and use of Bioinformatics tools and resources for plant genome analysis	CPCRI – 01	59
67	Hands -on- Training on Various Applications of Bioinformatics in Agriculture	CSKHPKV – 02	61
68	Gene and Protein Sequence Analysis and Applications in Agriculture	GBPUAT-01	80

69	Application of Bioinformatics in Plant Sciences	YSPUHF-01	72
70	Bioinformatics Applications in crop science	IARI – 01	89
71	Workshop on Applications of Bioinformatics in Agricultural Research	KAU – 04	101
72	National Workshop on “Use of Bioinformatics in Plant Biology”	NIPGR-01	134
73	Application of Bioinformatics in Medicinal Plants of Manipur	BIFSKWC – 05	159
74	Techniques in Molecular Biology and Bioinformatics Tools applied to Agriculture & Animal Sciences	SKUASTK – 02	150

#### VII BIOINFORMATICS WITH RESPECT TO ENVIRONMENT & BIODIVERSITY

75	Bioinformatics in Microbial Diversity Analysis	BU – 02	40
76	Biodiversity in Bioinformatics	BUC-01	44
77	Bioinformatics and computational tools for aquaculture for research in Aquaculture	CIFA – 01	56
78	CIMAP Summer Training on Techniques and Tools of Biotechnology & Bioinformatics (CST-2009)	CIMAP – 01	57
79	Role of Bioinformatics in Forests Biodiversity	FRI – 01	75
80	Biological Database Creation with Emphasis on Biodiversity& Conservation	BIFGU- 02	77
81	National Workshop on Bioinformatics in Aquaculture & Wildlife research	BIFGU- 04	79
82	Bioinformatics and Microbial Diversity	KUN – 01	102
83	Role of Bioinformatics in agriculture and Biodiversity Management	NDUAT-01	127
84	Bioinformatics: A Practical Approach	NEHU – 01	135
85	Bioinformatics in Biodiversity and environmental protection	UNB – 02	122
86	Biodiversity conservation through database development	RGU – 01	147
87	Bioinformatics for Biodiversity conservation	RGU – 02	148
88	Application of Bioinformatics in Biodiversity	BIFSKWC – 02	156
89	Biological Database Creation with Emphasis on Biodiversity& Conservation of endemic and endangered species of Manipur	BIFSKWC – 03	157

#### VIII GENERAL BIOINFORMATICS TRAININGS

90	Introduction to Computational Biology and Bioinformatics	AAUCVS – 01	33
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91	Creation and Management of e-Learning Module for Biological Sciences	AAUCVS – 02	34
92	Applications in Bioinformatics	ACTREC – 01	30
93	National Workshop on Bioinformatics (NaWoB2010)	AGU – 01	31
94	Bioinformatics in Life Sciences	BU – 01	39
95	Commercialization of Biotechnology	BCIL – 01	42
96	Bioinformatics : Application and Current Approaches	BP – 01	49
97	Bioinformatics and its Applications in understanding Molecular Evolution	BIFAUS – 02	36
98	Current trends of Bioinformatics and its Applications	CARI – 02	53
99	Training course on “Computer in computational Biology	CSKHPKV – 01	60
100	Workshop on Bioinformatics and its Applications	CSRTI – 01	62
101	Workshop on concepts and applications in Bioinformatics	CSRTI – 02	63
102	Introduction to Genomics & Proteomics and Phylogenetic analysis	DMCS – 02	65
103	Workshop on Phylogenetic analysis	DELHIUNIVSC – 01	69
104	Biotechnology and Bioinformatics Tools and their application	DIBRUUNIV – 02	71
105	Training course on Current trends in bioinformatics teaching & research	BIFGU- 01	76
106	Workshop on Bioinformatics and its relevance in present context	GJUSTH – 01	82
107	IPR Awareness Workshop	YSPUHF-03	74
108	Sequence alignment and Phylogenetic analysis	IBSD-01	90
109	Short Term Course on Bioinformatics	IITD – 01	93
110	Cheminformatics – Tools & Applications	IISR – 01	91
111	Principles and methods in Bioinformatics	KAU – 03	100
112	Bioinformatics in Evolutionary Studies	KALYANI – 01	96
113	Short Term Training Course On Bioinformatics : Research & Application	LU – 02	105
114	Use of Bioinformatics Software	MCC – 01	110
115	Introduction to Bioinformatics	MCC – 02	111
116	Principles and Applications of Bioinformatics	MCC – 03	112
117	Workshop on Molecular Modeling	MSU – 01	107
118	Workshop on Bioinformatics	MSU – 02	108
119	Bioinformatics : Current approaches and applications	MZU – 01	116
120	Bioinformatics : Overview and applications	MZU – 02	117

121	National Workshop on Emerging Machine Learning Techniques in Bio-informatics	NDRI – 02	124
122	Bioinformatics: Tools, Techniques & Applications	NERIST – 01	131
123	“Bioinformatics Software-Database Development, Management and Applications”	NERIST – 02	132
124	“Applications of Bioinformatics in Biological and Biochemical Research”	NERIST – 03	133
125	Orientation Training towards Bioinformatics National Certification Examination 2010 for Students of North-Eastern Region of India	NEHU – 02	136
126	Basics of Bioinformatics	NITR – 01	128
127	National Workshop on Bioinformatics: Sequence Analyses	PC – 01	137
128	National Workshop on Algorithms in Bioinformatics	PC – 05	141
129	Perl Programming for Bioinformatics	RGCB – 01	145
130	Homology modeling	SGPGI – 01	151
131	Bioinformatics Tools and its application In Biology	SGBAU – 01	153
132	Training course on Application of Bioinformatics Tools in Biology	BIFSKWC – 01	155
133	Application of Bioinformatics in Biotechnology for learning activities	BIFSKWC – 04	158
134	National Training Program on “Computers for Biologists”	SKUA – 01	165
135	Application of Bioinformatics in biotechnology teaching and research	SVBPUAT – 01	164
137	Advance biology & bioinformatics	VU – 01	175

#### **IX TEACHERS TRAINING**

137	Drug discovery through commercial softwares	MLACW – 02	119
138	Teach Syllabus	MLACW – 03	120
139	Biodiversity Database Organization and Management	TBGRI – 01	172

**TRAINING  
PROGRAMMES  
CENTRE WISE  
DETAILS OF  
COURSES**

## Advanced Centre for Treatment Research and Education in Cancer (ACTREC), Mumbai

Training Code: [ACTREC – 01]

<b>Title</b>	: <i>Applications in Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>January 21-22, 2010</i>
<b>Duration</b> (in number of days)	: <i>02 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

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

**CONTENTS:** Database concept, Biological databases and sequence analysis, Biostatistics, Molecular Modeling, Structural Bioinformatics, 3D QSAR, Cancer Biology & Proteomics

**METHODOLOGY** : Lectures / Demos / Hands on Session

**LEVEL OF PARTICIPANTS** : Lecturers from various colleges and Universities, Research scholars actively engaged in Bioinformatics related field

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

**NUMBER OF PARTICIPANTS** : 15-20

**EXPECTED DATE OF  
ANNOUNCEMENT** :

**Boarding & lodging arrangements etc.** : Accommodation not available

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	
SAARC		
Other Countries		

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**Alagappa University, Karaikudi**

Training code : [AGU - 01]

<b>Title</b>	: <i>National Workshop on Bioinformatics (NaWoB2010)</i>
<b>Date</b> (from ___ to ___)	: <i>January 6-8, 2010</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Microbial Genomics and Proteomics</i>

**OBJECTIVES:** To provide hands on training on bioinformatics tools and databases in genome analysis and to appraise researchers with its application in biological research.

**CONTENTS:** Tools for Genome analysis, Functional genomics and Proteome analysis with special reference to microbes.

**METHODOLOGY** : Lectures / Demos / Hands on Session

**LEVEL OF PARTICIPANTS** : Young Academicians, Scientists, Research Scholars and PG students.

**PREREQUISITES** : Life Science background with basic knowledge of computers.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : October 2009

**Boarding & lodging arrangements etc.** : Upon request, participants may be provided with accommodation in hostel/hotel against payment.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
Academicians/ Scientists	Rs. 2000/-	Accommodation charges will be payable on actual basis.
Research Scholars & PG Students	Rs. 1000/-	For Hostel: Rs. 50/- per day

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## Anna University Chennai

**Training Code:** [AU – 01]

<b>Title</b>	: <i>Workshop on Sequence Analysis and Molecular Simulations</i>
<b>Date</b> (from ___ to ___)	: <i>2<sup>nd</sup> to 5<sup>th</sup> December, 2009</i>
<b>Duration</b> (in number of days)	: <i>4 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics - Molecular Simulations</i>

**OBJECTIVES:** To give training in sequence analysis and molecular simulations to researchers and college teachers

**CONTENTS :** Biological sequence Analysis, Molecular Simulations, Molecular Dynamics and Docking

**METHODOLOGY** : Lectures, Demos, Hands on Session and Projects

**LEVEL OF PARTICIPANTS** : College Professors, Lecturers, Post Doctoral Candidates, Research Scholars and Interested persons from companies

**PREREQUISITES** : NIL

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF**

**ANNOUNCEMENT** : 1<sup>st</sup> week of September, 2009

**Boarding & lodging arrangements etc.** : NIL

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 1500/-	—
SAARC		
Other Countries		

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**College of Veterinary Science, AAU, Guwahati****Training Code:** [AAUCVS - 01]

<b>Title</b>	: <i>Introduction to Computational Biology and Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>September 15-18, 2009</i>
<b>Duration</b> (in number of days)	: <i>4 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To introduce the key concepts of bioinformatics, creation and management of databases, genomics and proteomics and to create awareness among the participants on application of bioinformatics tools for biological research.

**CONTENTS:** An overview of bioinformatics and its applications, retrieval of biological information, sequence analysis, molecular phylogenetics, primer designing for PCR, molecular modeling and drug designing, creation and management of relational databases.

**METHODOLOGY** : Lectures, Demos, Hands on Sessions

**LEVEL OF PARTICIPANTS** : Post graduate students of Biology/ Medical Science/Veterinary Science/ Agriculture/Fishery etc.

**PREREQUISITES** : Preliminary knowledge of computer

**NUMBER OF PARTICIPANTS** : 25

**EXPECTED DATE OF ANNOUNCEMENT** : August 16, 2009

**Boarding & lodging arrangements etc.** : Limited participants may be accommodated in the University guesthouse against payment.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India SAARC Other Countries	Rs. 600/-	Rs. 1000/-

**Training Code:** [AAUCVS – 02]

<b>Title</b>	: <i>Creation and Management of e-Learning Module for Biological Sciences</i>
<b>Date</b> (from ___ to ___)	: <i>December 15-18, 2009</i>
<b>Duration</b> (in number of days)	: <i>4 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To introduce the concept of e-learning and learning Management System (LMS), to familiarize the participants to creation of e-learning objects on biological sciences, development of online courses on biology and online assessment tools.

**CONTENTS:** Introduction to the concept of e-learning and learning Management System (LMS), OpenOffice and Web-based static content development using OpenOffice Writer, Creation and Editing of Slideshows as e-Learning Objects, Creation of biological animations using Flash MX, Creation of e-book with OpenOffice, Development of Multimedia based e-learning objects using open-source software, e-Learning Management using Moodle, Online assessment etc.

**METHODOLOGY** : Lectures, Demos, Hands on Sessions

**LEVEL OF PARTICIPANTS** : Teachers/Faculty members engaged in teaching UG/PG programmes in Biology/Medical Science/Veterinary Science/Agriculture/Fishery etc.

**PREREQUISITES** : Preliminary knowledge of computer

**NUMBER OF PARTICIPANTS** : 25

**EXPECTED DATE OF ANNOUNCEMENT** : November 16, 2009

**Boarding & lodging arrangements etc.** : Limited participants may be accommodated in the University guesthouse against payment.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 800/-	Rs. 1500/-
SAARC		
Other Countries		

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## Assam University, Silchar

**Training Code:** [BIFAUS – 01]

<b>Title</b>	: <i>Bioinformatics and its Applications in Drug Designing</i>
<b>Date</b> (from ___ to ___)	: <i>From 25th to 29th October 2009</i>
<b>Duration</b> (in number of days)	: <i>5 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** To expose the students and researchers to the field of recent drug discovery processes using Bioinformatics tools.

**CONTENTS:** Molecular Modeling, QSAR basics, Molecular Docking

**METHODOLOGY** : Workshop with both Lectures & Hands on Session

**LEVEL OF PARTICIPANTS** : Post Graduate and Scientists

**PREREQUISITES** : Knowledge of Computers and Basic Biology

**NUMBER OF PARTICIPANTS** : 30

**EXPECTED DATE OF ANNOUNCEMENT** : 10th August 2009.

**Boarding & lodging arrangements etc.** : Accommodation will be arranged for outstation participants (on request) on payment basis.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	Rs. 2500/-
SAARC	Rs. 1000/-	Rs. 4000/-
Other Countries	Rs. 2000/-	Rs. 8000/-

**Training Code:** [BIFAUS – 02]

<b>Title</b>	: <i>Bioinformatics and its Applications in understanding Molecular Evolution</i>
<b>Date</b> (from ___ to ___)	: <i>From 10th to 14th January 2010</i>
<b>Duration</b> (in number of days)	: <i>5 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Environment &amp; Biodiversity</i>

**OBJECTIVES:** To expose the students and researchers to the field of Molecular Evolution and Phylogeny prediction.

**CONTENTS:** Sequence Analysis, Molecular Phylogeny etc.

**METHODOLOGY** : Workshop with both Lectures & Hands on Session

**LEVEL OF PARTICIPANTS** : Post Graduate and Scientists

**PREREQUISITES** : Knowledge of Computers and Basic Biology

**NUMBER OF PARTICIPANTS** : 30

**EXPECTED DATE OF ANNOUNCEMENT** : 10th November 2009.

**Boarding & lodging arrangements etc.** : Accommodation will be arranged for outstation participants (on request) on payment basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	Rs. 2500/-
SAARC	Rs. 1000/-	Rs. 4000/-
Other Countries	Rs. 2000/-	Rs. 8000/-

**Contact Address**

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**Banasthali Vidyapith, Banasthali****Training Code:** [BV – 01]

<b>Title</b>	: <i>Computational Approaches in Biological Data Mining.</i>
<b>Date</b> (from ___ to ___)	: 12 <sup>th</sup> to 14 <sup>th</sup> December 2009
<b>Duration</b> (in number of days)	: 3
<b>Subject Area</b> (As per List enclosed)	: <i>Knowledge Discovery from Data (KDD)</i>

**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:

- Introduction to biological databases.
- Biological resources in the cyberspace.
- Retrieval of data from biological databases.
- Access to online journals.

**METHODOLOGY**

: 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 40

**EXPECTED DATE OF****ANNOUNCEMENT**

: September first week

**Boarding & lodging arrangements etc.**

: Will be arranged on sharing basis in the guest house.

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	Rs. 1000/-
SAARC	Rs. 500/-	Rs. 1000/-
Other Countries	Rs. 1000/-	Rs. 1500/-

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**Barkatullah University, Bhopal****Training Code:** [BU – 01]

<b>Title</b>	: <i>Bioinformatics in Life Sciences</i>
<b>Date</b> (from ___ to ___)	: <i>25-27 June 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Training</i>

**OBJECTIVES:** Introduction to Bioinformatics for the life science background faculties, research scholars and students

**CONTENTS:**

- Computer science & Bioinformatics
- Bioinformatics as a tool in life science
- Research in life science using Bioinformatics

**METHODOLOGY** : Lectures and Hands on Session

**LEVEL OF PARTICIPANTS** : Science Graduate and Post Graduate

**PREREQUISITES** : Basic Computer operations

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : 1 June 2009

**Boarding & lodging arrangements etc.** : Boarding and Lodging will be provided on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	Rs. 1100/-
SAARC		
Other Countries		

**Training Code:** [BU – 02]

<b>Title</b>	: <i>Bioinformatics in Microbial Diversity Analysis</i>
<b>Date</b> (from ___ to ___)	: <i>10-12 September 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Environment &amp; Biodiversity</i>

**OBJECTIVES:** To provide the theoretical and practical knowledge on using the Bioinformatics tools for Microbial diversity analysis

**CONTENTS :**

- Techniques in Microbial Diversity analysis
- Phylogenetic analysis algorithms and Tools
- Inferring the phylogeny

**METHODOLOGY** : Lectures and Hands on Session

**LEVEL OF PARTICIPANTS** : PG Students and Research scholars in life science

**PREREQUISITES** : Basic Computer operations

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : 1<sup>st</sup> August 2009

**Boarding & lodging arrangements etc.** : Boarding and Lodging will be provided on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	Rs. 1100/-
SAARC		
Other Countries		

**Training Code:** [BU – 03]

<b>Title</b>	: <i>In silico Protein Engineering</i>
<b>Date</b> (from ___ to __)	: <i>14-16 December 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** To provide the theoretical and practical knowledge on using the Bioinformatics tools for Protein Structure study, mutational design and analysis

**CONTENTS :**

- Protein Structure visualization Tools
- Protein Structure insilico mutation
- Protein structure analysis

**METHODOLOGY** : Lectures and Hands on Session

**LEVEL OF PARTICIPANTS** : PG Students and Research scholars in life science

**PREREQUISITES** : Basic Computer operations

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : 1<sup>st</sup> November 2009

**Boarding & lodging arrangements etc.** : Boarding and Lodging will be provided on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	Rs. 1100/-
SAARC		
Other Countries		

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**Biotech Consortium India Limited, New Delhi**

Training Code: [BCIL – 01]

<b>Title</b>	: <i>Commercialisation of Biotechnology</i>
<b>Date</b> (from ___ to ___)	: <i>February 19, 2010</i>
<b>Duration</b> (in number of days)	: <i>One day</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Commercial aspects of biotechnology (Technology transfer, IPR, licensing etc.)</i>

**OBJECTIVES:** To create awareness among representatives from research institutions, industries, academia, and PG students on commercial aspects of biotechnology including various issues involved in technology and know-how evaluation and transfer, importance of drafting of comprehensive license agreements and contracts, IPR issues, financing options, licensing and regulatory requirements, etc.

**CONTENTS:** Business opportunities and key issues concerning commercialization of biotechnology including technology evaluation, maximizing intellectual assets through patenting, regulatory requirements, technology transfer processes, financing options under public-private-partnership, Techno-preneurship and business opportunities in biotechnology and venture capital.

**METHODOLOGY** : Presentations by experts followed by panel discussions

**LEVEL OF PARTICIPANTS** : Representatives from research institutions, industry, academicians, financial institutions, government depts. and PG students

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

**NUMBER OF PARTICIPANTS** : 70-100

**EXPECTED DATE OF ANNOUNCEMENT** : January 2010

**ANNOUNCEMENT**

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

REGISTRATION FEE	Without Accommodation	With Accommodation
India	2,000/-	NA
SAARC	NA	
Other Countries	NA	

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**Bharathidasan University, Tiruchirapalli**

Training Code: [BDU - 01]

<b>Title</b>	: <i>Workshop on Bioinformatics for Cyanobacteriologists</i>
<b>Date</b> (from ___ to ___)	: <i>March 1<sup>st</sup> week</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Networks, pathways and system biology/ Database and data mining</i>

**OBJECTIVES:** To share the wet lab in combination with in silico analysis.**CONTENTS:** Data Mining**METHODOLOGY** : Sequence Analysis, Homology Modeling**LEVEL OF PARTICIPANTS** : Research Scholars**PREREQUISITES** : Scholars / Researches in Cyanobacteriology**NUMBER OF PARTICIPANTS** : 12**EXPECTED DATE OF ANNOUNCEMENT** : Month of January

REGISTRATION FEE	Without Accommodation	With Accommodation
India	-	Rs.1500/-
SAARC	-	-
Other Countries	-	-

**Contact Address****Dr. L. UMA, Coordinator**

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**Bharathiar University, Coimbatore**

Training Code: [BUC-01]

<b>Title</b>	: <i>Biodiversity in Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>April 20<sup>th</sup> – 25<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>6 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Biodiversity Informatics</i>

**OBJECTIVES:** To fulfill the needs of biologists to understand biodiversity through biodiversity informatics.

**CONTENTS:** Participants will gain practical experience with a wealth of biological information's such as Biodiversity databases and software's. A comprehensive lecture and laboratory manual will be provided. Participants will complete team and individual assignments.

**METHODOLOGY** : Lectures, Demos, Hands on Session & Projects.

**LEVEL OF PARTICIPANTS** : College Staff.

**PREREQUISITES** : Working knowledge of computers

**NUMBER OF PARTICIPANTS** 20

**EXPECTED DATE OF ANNOUNCEMENT** : 1<sup>st</sup> week of March 2010

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 2000/-	Rs. 2000/-+ actual charges of accommodation
SAARC		
Other Countries		

**Training Code:** [BUC-02]

<b>Title</b>	:	<i>Structure Based Drug Designing</i>
<b>Date</b> (from ___ to ___)	:	<i>July 22<sup>nd</sup> – 24<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	:	<i>3</i>
<b>Subject Area</b> (As per List enclosed)	:	<i>Bioinformatics</i>

**OBJECTIVES:** To furnish the Scientists with an understanding of the importance of drug designing and provide ideas to develop solutions for the issues in Medicine and Healthcare industry.

**CONTENTS:** Participants will gain practical experience with the docking software. A comprehensive lecture and laboratory manual will be provided. Participants will complete team and individual assignments.

**METHODOLOGY** : Lectures, Demos, Hands on Session & Projects.

**LEVEL OF PARTICIPANTS** : Scientists and Research Scholars.

**PREREQUISITES** : Working knowledge of computers

**NUMBER OF PARTICIPANTS** 20

**EXPECTED DATE OF ANNOUNCEMENT** : 3<sup>rd</sup> week of June

**Boarding & lodging arrangements etc.** : Will be arranged on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 1000/-	Rs. 1000/-+ actual charges of accommodation
SAARC		
Other Countries		

**Training Code:** [BUC-03]

<b>Title</b>	: <i>Genome and Proteome Analysis</i>
<b>Date</b> (from ___ to ___)	: <i>August 26<sup>th</sup> – 28<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genomics and Proteomics</i>

**OBJECTIVES:** Deciphering biology from genome and proteome sequences using computational analysis which focuses on, “how DNA controls the biology of any species at the molecular level”

**CONTENTS:** Participants will gain practical knowledge on various genome and proteome analysis tools. A comprehensive lecture and laboratory manual will be provided. Participants will complete team and individual assignments.

**METHODOLOGY** : Lectures, Demos, Hands on Session & Projects.

**LEVEL OF PARTICIPANTS** : College Staff

**PREREQUISITES** : Working knowledge of computers

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : 2<sup>nd</sup> week of July

**Boarding & lodging arrangements etc.** : Will be arranged on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 750/-	Rs. 750/-+ actual charges of accommodation
SAARC		
Other Countries		



**Training Code: [BUC-04]**

<b>Title</b>	: <i>Protein Structure Prediction and Docking Studies</i>
<b>Date</b> (from ___ to ___)	: <i>Dec 09<sup>th</sup> – 11<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational Biology</i>

**OBJECTIVES:** To gain knowledge on the techniques for molecular modeling with applications to protein and small molecule structure prediction, docking and molecular visualization.

**CONTENTS:** Participants will gain practical skill on molecular modeling. A comprehensive lecture and laboratory manual will be provided. Participants will complete team and individual assignments.

**METHODOLOGY** : Lectures, Demos, Hands on Session & Projects.

**LEVEL OF PARTICIPANTS** : PG Students

**PREREQUISITES** : Working knowledge of computers

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : 1<sup>st</sup> week of November

**Boarding & lodging arrangements etc.** : Will be arranged on request

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	Rs. 500/-+ actual charges of accommodation
SAARC		
Other Countries		

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Web –Address :	http://www.b-u.ac.in

**Banaras Hindu University, Varanasi**

Training Code: [BHU - 01]

<b>Title</b>	: <i>Bacterial Genomics and systems Biology</i>
<b>Date</b> (from ___ to ___)	: <i>Jan12th-14<sup>th</sup> 2010</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genome and Proteome Analysis</i>

**OBJECTIVES:** To create awareness among participants for use of bioinformatics tools in understanding and exploiting bacterial genomes.

**CONTENTS:** - Signal transduction pathways - Homology modeling  
- Neural Networks - Promoter analysis  
- Protein-Protein interactins (in silico & in vivo)

**METHODOLOGY** : Lectures, Demos and Hands on session.

**LEVEL OF PARTICIPANTS** : Research Scientists/Ph.D. Students/ University & College teachers

**PREREQUISITES** : Must have basic knowledge of Computer.

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : September/October-2009

**Boarding & lodging arrangements etc.** : Shall be arranged in university guest house

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 2000/-	Rs. 3000/-
SAARC		
Other Countries		

**Contact Address****Prof. Anil Kumar Tripathi, Coordinator**

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Web -Address :	

**Biotech Park in Biotechnology City, Lucknow**

Training Code: [BP – 01]

<b>Title</b>	: <i>Bioinformatics : Application and Current Approaches</i>
<b>Date</b> (from ___ to ___)	: <i>June 10 – 12, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics &amp; Genomics / Proteomics / Biological Database / Structural based bioinformatics approaches</i>

**OBJECTIVES:** To give an in depth idea of the role of computational tools & biological databases in sequence alignment, comparative genomics, phylogenetic analysis, molecular modeling, molecular mechanics and molecular visualization.

**CONTENTS:** Bioinformatics, web resources & tools, database concept, biological databases, biological sequence analysis, application of bioinformatics tools (windows & linux based) in genomic & proteomics studies, phylogenetic analysis, gene & protein prediction and introduction of intellectual property rights.

**METHODOLOGY** : Lectures, Demonstrations 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** : 25

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 2000/-	
SAARC		
Other Countries		

**Training Code:** [BP – 02]

<b>Title</b>	: <i>Role of Chemoinformatics, Pharmacoinformatics &amp; Bioinformatics in Rational Drug Designing.</i>
<b>Date</b> (from ___ to ___)	: <i>October 8 – 10, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics, Genomics, Proteomics Analysis &amp; Health Science</i>

**OBJECTIVES:** To provide participants with an insight into the various aspects of in-silico protein modeling and drug design techniques through guided practical training.

**CONTENTS:** Overview, structure database and chemical libraries, various file formats, information retrieval methods, molecular visualization, molecular modeling techniques, molecular docking methods, chemical sketching, cheminformatics and structure based drug designing.

**METHODOLOGY** : Lectures, Demonstrations 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** : 25

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 2000/-	
SAARC		
Other Countries		

Training Code: [BP – 03]

<b>Title</b>	: <i>Drug Design Approaches: Molecular Modeling, Computational Chemistry and RNAi applications</i>
<b>Date</b> (from ___ to __)	: <i>February 23 – 25, 2010</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics &amp; Health / Bioinformatics &amp; Genomics / Proteomics / Database / Software development in Biotechnology</i>

**OBJECTIVES:** To provide a platform to young researcher and students about advancement of bioinformatics tools and their applications in different fields of biotechnology, In-silico drug development.

**CONTENTS:** Sequence analysis, molecular docking, protein modeling, sequence refinement and validation, receptor-ligand interaction, homology modeling, pharmacogenomics, rational drug designing and RNAi.

**METHODOLOGY** : Lectures, Demonstrations 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** : 25

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 2000/-	
SAARC		
Other Countries		

**Contact Address**

**Dr. P.K. Seth, Coordinator**

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**Central Agricultural Research Institute, Portblair****Training Code:** [CARI – 01]

<b>Title</b>	: <i>Bioinformatics Tools and Techniques for Gene and Protein Analysis</i>
<b>Date</b> (from ___ to __)	: 27 <sup>th</sup> – 30 <sup>th</sup> July, 2009
<b>Duration</b> (in number of days)	: 4 days
<b>Subject Area</b> (As per List enclosed)	: <i>Computational Biology</i>

**OBJECTIVES:** To promote awareness among participants for the use of bioinformatics, genome and proteome analysis tools in their research work.

**CONTENTS:** Bioinformatics and applications related to database retrieval, biological sequence analysis, genomics, proteomics and phylogenetic analysis.

**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

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 1000/-	Rs. 1500/-
SAARC	US\$ 100	US\$ 200
Other Countries	US\$ 200	US\$ 400

**Training Code:** [CARI – 02]

<b>Title</b>	: <i>Current trends of Bioinformatics and its Applications</i>
<b>Date</b> (from ___ to __)	: 5 <sup>th</sup> – 8 <sup>th</sup> February, 2010
<b>Duration</b> (in number of days)	: 4 days
<b>Subject Area</b> (As per List enclosed)	: <i>Computational Biology</i>

**OBJECTIVES:** To familiarize scientist about the emerging trends & Applications in Bioinformatics and also to focus on the role of Bioinformatics in data interpretation of various Omics data.

**CONTENTS:** Biological Databases, Data Formats, DNA and proteins Sequence analysis, Biological pathway analysis, Phylogenetic analysis, Gene and protein predictions, Genomics and Bioinformatics, Tools and Software used in Bioinformatics research, Application of Bioinformatics.

**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

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 1000/-	Rs. 1500/-
SAARC	US\$ 100	US\$ 200
Other Countries	US\$ 200	US\$ 400

**Contact Address**

**Dr. M. Balakrishnan, Coordinator**

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Web –Address :	<a href="http://cari.res.in/Sub_DIC/index.html">http://cari.res.in/Sub_DIC/index.html</a>

**CCS Haryana Agricultural University, Hisar****Training Code:** [CCSHAU - 01]

<b>Title</b>	: <i>Bioinformatics in Plant Sciences</i>
<b>Date</b> (from ___ to ___)	: <i>December 15<sup>th</sup> – 19<sup>th</sup>, 2009</i>
<b>Duration</b> (in number of days)	: <i>5 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Agriculture/ Plant Sciences</i>

**OBJECTIVES:**

1. To understand the role of Bioinformatics in Plant Sciences Research
2. To mine and use the Biological databases
3. To understand the usage of Simple Bioinformatics Tools

**CONTENTS:**

1. Introduction to Bioinformatics
2. Data mining
3. Biological databases
4. Bioinformatics Tools

**METHODOLOGY** : Lectures, Demos, Hands on Session**LEVEL OF PARTICIPANTS** : Post-graduate in Sciences**PREREQUISITES** : Working knowledge of Computers**NUMBER OF PARTICIPANTS** : 30 (15 teachers / researchers + 15 M.Sc. Pass or final year students)**EXPECTED DATE OF ANNOUNCEMENT** : November 3, 2009**Boarding & lodging arrangements etc.** : Would be arranged in University Guest House, on request and on payment as per rules

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 1000	Rs. 1000 + stay as per actual
SAARC	Rs. 1000	
Other Countries	US\$ 50	US\$50 + stay as per actual

**Contact Address****Dr. Sudhir Kumar, Coordinator**

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**Cotton College, Guwahati****Training Code:** [CCG – 01]

<b>Title</b>	: <i>Bioinformatics Application on Genome and Proteome Analysis</i>
<b>Date</b> (from ___ to ___)	: <i>17<sup>th</sup> to 19<sup>th</sup> November 2009</i>
<b>Duration</b> (in number of days)	: <i>Three days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genome and Proteome Analysis</i>

**OBJECTIVES:** To train and demonstrate Basics and Application of Bioinformatics tools and sites for DNA and polypeptide sequence alignment, sequence database and similarity searches and allied Bioinformatics methods.

**CONTENTS:** Bioinformatics tools, Molecular Databases, Biological sequence analysis, Homology searching using BLAST & FASTA, Sequence alignment, Phylogenetics, Molecular Simulations.

**METHODOLOGY** : Interactive Lectures, Demos and Hands on Session

**LEVEL OF PARTICIPANTS** : Research students and college teachers.

**PREREQUISITES** : Basic knowledge of computer application.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : First week of November, 2009.

**Boarding & lodging arrangements etc.** : Borne by the participants.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	N.A.
SAARC	Rs. 500/-	N.A.
Other Countries	Rs. 500/-	N.A.

**Contact Address****Dr. Rita Mahanta, Coordinator**

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**Central Institute of Freshwater Aquaculture,  
Bhubaneswar**

**Training Code:** [CIFA – 01]

<b>Title</b>	: <i>Bioinformatics and computational tools for aquaculture for research in Aquaculture</i>
<b>Date</b> (from ___ to __)	: 19 <sup>th</sup> – 21 <sup>st</sup> November 2009
<b>Duration</b> (in number of days)	: 3
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Animal/ Aqua Sciences</i>

**OBJECTIVES:** To appraise the students and researchers about the latest developments in the bioinformatics and computational tools applicable to aquaculture.

**CONTENTS:** Recent developments in Bioinformatics; recent developments of the statistical software for computation; information generation and management in the aquaculture sector; biotechnological research in aquaculture

**METHODOLOGY** : Workshop-cum-training using Lectures, demo, hands on session

**LEVEL OF PARTICIPANTS** : Scientists, Research Scholars, Students

**PREREQUISITES** : Must have basic knowledge of computer

**NUMBER OF PARTICIPANTS** : 35

**EXPECTED DATE OF ANNOUNCEMENT** : August, 2009

**ANNOUNCEMENT**

**Boarding & lodging arrangements etc.** : Guest house of CIFA, Bhubaneswar

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 1000/-	Rs. 1500/-
SAARC	US\$ 100	US\$ 200
Other Countries	US\$ 200	US\$ 400

**Contact Address**

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## Central Institute of Medicinal and Aromatic Plants, Lucknow

**Training Code:** [CIMAP – 01]

<b>Title</b>	: CIMAP Summer Training on Techniques and Tools of Biotechnology & Bioinformatics (CST-2009)
<b>Date</b> (from ___ to ___)	: 23 <sup>rd</sup> June – 22 <sup>nd</sup> July, 2009
<b>Duration</b> (in number of days)	: 30 days
<b>Subject Area</b> (As per List enclosed)	: Bioinformatics with respect to Agriculture/Plant Science

**OBJECTIVES:** Integrated wet & dry lab training to B. Tech., M. Sc and M. Tech students

**CONTENTS:** The training beginning with basics of molecular biology tools, bioinformatics and plant tissue culture techniques would provide exposition to the following main areas:

- DNA/RNA techniques – Basic techniques of DNA/RNA, protein handling towards genomics and proteomics.
- Molecular Biology Tools and Methods – Recent molecular biology tools & techniques including gene cloning, sequencing and analysis.
- Plant Tissue Culture Techniques – Basic concepts of morphogenesis, synseed technology, protoplast culture & fusion, *Agrobacterium* – mediated genetic transformation, bio-reactor scaling-up of cell/hairy roots cultures, *in vitro* secondary metabolism and metabolic engineering.
- Bioinformatics Tools and Applications. – Biological database and their annotations, Pairwise and multiple sequence alignment, Genome and proteome analysis, Data Mining, Phylogenetic analysis, Gene and Protein structure prediction, drug discovery.

**METHODOLOGY** : Lectures, Demos and Hands on Session

**LEVEL OF PARTICIPANTS** : B. Tech and M.Sc. students

**PREREQUISITES** : NIL

**NUMBER OF PARTICIPANTS** : 24

**EXPECTED DATE OF ANNOUNCEMENT** : March, 2009

REGISTRATION FEE	Without Accommodation	With Accommodation
India*	Rs. 10,000/-	
SAARC		
Other Countries		

\* For Indian National only

**Training Code:** [CIMAP – 02]

<b>Title</b>	: <i>Recent Trends in Plant Biotechnology and Bioinformatics</i>
<b>Date</b> (from ___ to __)	: <i>19-21 October, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Agriculture/Plant Science</i>

**OBJECTIVES:** Recent Trends in Application of Tools and Techniques of Biotechnology and Bioinformatics

**CONTENTS :**

The training will provide an exposure in the recent trends in molecular biology and bioinformatics with emphasis on following main areas:

- DNA/RNA techniques – Basic techniques of DNA/RNA, protein handling towards genomics and proteomics. Molecular Biology Tools and Methods – Recent molecular biology tools & techniques including gene cloning, sequencing and analysis.
- Bioinformatics Tools and Applications. – Biological database and their annotations, Pairwise and multiple sequence alignment, Genome and proteome analysis, Data Mining, Phylogenetic analysis, Gene and Protein structure prediction, drug discovery.

**METHODOLOGY** : Lectures, Demos and Hands on Session

**LEVEL OF PARTICIPANTS** : Scientists, Researchers, Academicians and students

**PREREQUISITES** : NIL

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : July, 2009

**ANNOUNCEMENT**

**Boarding & lodging arrangements etc.** : Will be made available on request

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 3000/-	
SAARC		
Other Countries		

**Contact Address**

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**Central Plantation Crops Research Institute,  
Kasaragod**

**Training Code:** [CPCRI – 01]

<b>Title</b>	: <i>Development and use of Bioinformatics tools and resources for plant genome analysis</i>
<b>Date</b> (from ___ to __)	: 16 <sup>th</sup> – 25 <sup>th</sup> November 2009
<b>Duration</b> (in number of days)	: 10 days
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to agriculture / Plant Sciences</i>

**OBJECTIVES:** To familiarize the researchers/students in the bioinformatics tools/techniques in plant genome analysis.

**CONTENTS:** Biological databases, Database search tools, database concepts, Perl scripts, Sequence analysis, Analysis of ESTs, Locating SSRs, SNPs, System biology introduction.

**METHODOLOGY** : Lectures, Demos, Hands on Session

**LEVEL OF PARTICIPANTS** : Researcher/PG students

**PREREQUISITES** : Basics in Bioinformatics / Biotechnology

**NUMBER OF PARTICIPANTS** : Ten to Fifteen

**EXPECTED DATE OF ANNOUNCEMENT** : First week of September

**Boarding & lodging arrangements etc.** : Will be arranged on payment

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	Accommodation charges will be collected as per ICAR norms
SAARC		
Other Countries		

**Contact Address**

**Dr. George V. Thomas, Coordinator**

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**CSK Himachal Pradesh Krishi Vishvavidyalaya,  
Palampur**

**Training Code:** [CSKHPKV – 01]

<b>Title</b>	: <i>Training course on “Computer in computational Biology</i>
<b>Date</b> (from ___ to __)	: <i>August 17<sup>th</sup> – 18<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>2 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Training</i>

**OBJECTIVES:** To increase the awareness about the role of computer in biology field, exposure to various tools and techniques in Bioinformatics.

**CONTENTS:** Introduction to Bioinformatics, Sequence search tools, Bioinformatics web resources & tools, Emerging concepts of Biotechnology and Bioinformatics, Sequence analysis and phylogeny prediction.

**METHODOLOGY** : Lectures, Demos, Hands on Session and Workshop

**LEVEL OF PARTICIPANTS** : Research scholars, M. Sc., Ph.D. students of Colleges and Universities.

**PREREQUISITES** : Basic knowledge of computer.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : July 2009

**Boarding & lodging arrangements etc.** : Available on request at subsidized rates.

**Training Code:** [CSKHPKV – 02]

<b>Title</b>	: <i>Hands -on- Training on Various Applications of Bioinformatics in Agriculture</i>
<b>Date</b> (from ___ to ___)	: <i>November 4<sup>th</sup> - 6<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Training</i>

**OBJECTIVES:** To impart training on bioinformatics and its application to Agriculture.

**CONTENTS:** Introduction to Bioinformatics, Public Biological Databases and Data Mining tools, Basics of Genomics & Proteomics Applications of bioinformatics in Agriculture.

**METHODOLOGY** : Lectures, Demos, Hands on Session and Workshop

**LEVEL OF PARTICIPANTS** : Research scholars, M. Sc., Ph.D. students of Colleges and Universities.

**PREREQUISITES** : Basic knowledge of computer.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : October 2009

**Boarding & lodging arrangements etc.** : Available on request at subsidized rates.

**Contact Address**

**Dr. S. R. Thakur, Coordinator**

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## Central Sericultural Research and Training Institute, Mysore

**Training Code:** [CSRTI – 01]

<b>Title</b>	: <i>Workshop on Bioinformatics and its Applications</i>
<b>Date</b> (from ___ to ___)	: <i>09.11.2009 to 10.11.2009</i>
<b>Duration</b> (in number of days)	: <i>2 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics and Biocomputing</i>

**OBJECTIVES:** Significance and Applications of Bioinformatics and Biocomputing in Sericulture

**CONTENTS:** Computer Applications, Biotechnology, Advances in Seribiotechnology, Bioinformatics tools and techniques and databases in seribioinformatics

**METHODOLOGY** : Lectures and Demonstrations

**LEVEL OF PARTICIPANTS** : Scientists and Research scholars who are working in field of sericulture,

**PREREQUISITES** : Knowledge of biochemistry/ molecular biology/ biotechnology

**NUMBER OF PARTICIPANTS** : 30

**EXPECTED DATE OF ANNOUNCEMENT** : 01.10.2009

**Boarding & lodging arrangements etc.** : Will be arranged as per the participants requirement

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs.500/-	Rs 500+accommodation charges in hostel/ guesthouse



**Training Code: [CSRTI – 02]**

<b>Title</b>	: <i>Workshop on concepts and applications in Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>18.01.2010 and 19.01.2010</i>
<b>Duration</b> (in number of days)	: <i>2 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Fundamentals of tools and techniques in Bioinformatics</i>

**OBJECTIVES:** To create awareness among B.Sc., M.Sc. and BE Biotechnology graduates in the area of Bioinformatics

**CONTENTS:** Computer Applications, General Bioinformatics, Bioinformatics tools and techniques

**METHODOLOGY** : Lectures and Demonstrations

**LEVEL OF PARTICIPANTS** : Students of various collages and universities in and around the institute.

**PREREQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 30

**EXPECTED DATE OF ANNOUNCEMENT** : 20.12.2009

**Boarding & lodging arrangements etc.** : Arranged as per the participants requirement

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 250/-	—

**Contact Address****Dr. S. M. H. Qadri, Coordinator**

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**D. M. College of Science, Imphal****Training Code:** [DMCS – 01]

<b>Title</b>	: <i>Computational &amp; Structural Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: 8 <sup>th</sup> to 10 <sup>th</sup> , June 2009
<b>Duration</b> (in number of days)	: 3 days
<b>Subject Area</b> (As per List enclosed)	: <i>Knowledge Discovery from Data (KDD)</i>

**OBJECTIVES:** To promote awareness of the basics of Computational & Structural Bioinformatics, use of the online sequence analysis tools and software from the internet and CD ROMs databases.

**CONTENTS:** Introduction to various biological databases and resources in the internet; Retrieval of Data from biological databases and access to online journals and e-books.

**METHODOLOGY** : Theory/practical demonstration and hands on training on use of the online sequence analysis tools and software from the internet.

**LEVEL OF PARTICIPANTS** : Post-graduate students, Research scholars, College & University teachers and Scientists in research institutions.

**PREREQUISITES** : Knowledge of Computer and Basic Molecular Biology.

**NUMBER OF PARTICIPANTS** : Maximum 20

**EXPECTED DATE OF ANNOUNCEMENT** : Last week of May

**Boarding & lodging arrangements etc.** : Will be arranged for outstation participants on payment basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	Rs. 1000/-
SAARC		
Other Countries		

**Training Code:** [DMCS – 02]

<b>Title</b>	: <i>Introduction to Genomics &amp; Proteomics and Phylogenetic analysis.</i>
<b>Date</b> (from ___ to ___)	: <i>3<sup>rd</sup> to 5<sup>th</sup> July 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genome and Proteome Analysis</i>

**OBJECTIVES:** To promote basic knowledge of genomics and proteomics, sequence level of genome, extraction of sequence and phylogenetic analysis.

**CONTENTS:** Introduction to the concepts of genomics and proteomics, uses of different computational tools and software for genome sequence analysis and study of evolutionary relationships.

**METHODOLOGY** : Workshop with lectures and live demonstrations of biological databases/resources on the internet as well as hands on activities.

**LEVEL OF PARTICIPANTS** : Teachers, Research Scholars, PG & UG Students

**PREREQUISITES** : Basic Knowledge of Computer and Molecular Biology.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : June first week

**Boarding & lodging arrangements etc.** : May be arranged in hotels on request on payment basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	Rs. 500/++
SAARC	NA	NA
Other Countries	NA	NA

**Training Code:** [DMCS – 03]

<b>Title</b>	: <i>In silico Molecular Modeling and Drug designing</i>
<b>Date</b> (from ___ to ___)	: 30 <sup>th</sup> to 31 <sup>st</sup> October 2009
<b>Duration</b> (in number of days)	: 2 days
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** To provide participants an insight into the various aspects of in-silico protein structure modeling and drug design techniques through guided practical training.

**CONTENTS:** Overview, Structure Database and Chemical libraries; Various file formats, Information retrieval methods, Molecular Visualization, Molecular Modeling Techniques, Molecular Docking Methods, Chemical sketching, Cheminformatics and structure based Drug Designing.

**METHODOLOGY** : Lectures and live demonstrations of biological databases/resources on the internet as well as hands on activities.

**LEVEL OF PARTICIPANTS** : Teachers, Research Scholars, PG & UG Students.

**PREREQUISITES** : Knowledge of computer, internet and basic Molecular Biology

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : September 09

**Boarding & lodging arrangements etc.** : May be arranged in hotels on request on payment basis.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	Rs. 500/- +
SAARC	NA	NA
Other Countries	NA	NA

**Training Code:** [DMCS – 04]

<b>Title</b>	: <i>Applications of Bioinformatics in Environment and Biodiversity Conservation.</i>
<b>Date</b> (from ___ to ___)	: 26 <sup>th</sup> to 27 <sup>th</sup> March, 2010
<b>Duration</b> (in number of days)	: 2 days
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics in respect to Environment and Biodiversity</i>

**OBJECTIVES:** To familiarize the participants with the available databases on environment and Biodiversity, and also to train the participants on the data mining exercise in environment and biodiversity.

**CONTENTS:** Introduction to various databases and resources on Environment and Biodiversity; Retrieval of Data from databases.

**METHODOLOGY** : Workshop with lectures and live demonstrations as well as hands on activities.

**LEVEL OF PARTICIPANTS** : Teachers, Research Scholars, Students

**PREREQUISITES** : Knowledge of computer and Internet.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : February, 2010

**Boarding & lodging arrangements etc.** : May be arranged in hotels on request on payment basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	Rs. 500/- +
SAARC	NA	NA
Other Countries	NA	NA

**Contact Address**

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

<b>Title</b>	: <i>Computational Approach in Biological Databases</i>
<b>Date</b> (from ___ to ___)	: <i>From 23<sup>rd</sup> Nov. 2009 to 25<sup>th</sup> Nov. 2009.</i>
<b>Duration</b> (in number of days)	: <i>03 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** To describe about the major biological databases and their applications in teaching and research in biological sciences.

**CONTENTS:** Introduction, retrieval and analysis of Data from Biological databases will be discussed.

**METHODOLOGY** : Lectures cum Hands on Training

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

**PREREQUISITES** : Knowledge in Computer and Molecular Biology

**NUMBER OF PARTICIPANTS** : 25-30

**EXPECTED DATE OF ANNOUNCEMENT** : First Week of October'2009.

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

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	Accommodation fees will be charged from the participants as per actual. (As present Rs. 125/- per person per night)
SAARC	Rs. 500/-	—Do—
Other Countries	Rs. 1000/-	—Do—

**Contact Address****Prof. Dr. Anil Kumar, Coordinator**

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## University of Delhi South Campus, New Delhi

Training Code: [DELHIUNIVSC - 01]

<b>Title</b>	: <i>Workshop on Phylogenetic analysis</i>
<b>Date</b> (from ___ to ___)	: <i>11<sup>th</sup> - 12<sup>th</sup> March 2010</i>
<b>Duration</b> (in number of days)	: <i>02 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>1. Computational &amp; Structural Bioinformatics 2. Genome and Proteome Analysis 3. General Bioinformatics Trainings</i>

**OBJECTIVES:** To train biology researcher's to carry out phylogenetic analysis.

**CONTENTS:** Implementation of PHYLIP package.

**METHODOLOGY** : Workshop-cum-training using Lectures, Demo, Hands on session.

**LEVEL OF PARTICIPANTS** : The participants will include faculty members from various departments at South Campus, faculty members from various colleges and Institutions from Delhi in addition to Ph.D's students, Post-doctoral and Research Fellows.

**PREREQUISITES** : The requirements will be sent after the organisation of the Workshop has reached a certain level.

**NUMBER OF PARTICIPANTS** : Participants will be around 150.

**EXPECTED DATE OF ANNOUNCEMENT** : In the middle of January 2010.

**Boarding & lodging arrangements etc.** : No, Most of the participants will be from Delhi and they will be provided the local hospitality at the Workshop.

### Contact Address

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Web -Address :	

**Dibrugarh University, Dibrugarh****Training Code:** [DIBRUUNIV – 01]

<b>Title</b>	: <i>Biotechnology and bioinformatics tools for Genomics and Proteomics.</i>
<b>Date</b> (from ___ to ___)	: 23 <sup>rd</sup> to 26 <sup>th</sup> September 2009.
<b>Duration</b> (in number of days)	: 4 days.
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To familiarize the researchers, teachers and students about the techniques in biotechnology and bioinformatics in Genome and Proteome analysis.

**CONTENTS:** Computational tools & biological databases in sequence alignment, phylogenetic analysis, protein structure prediction tools, genome analysis tools, PCR, RT PCR, Microarray techniques, Tissue culture techniques. General approach for drug development, In silico drug development.

**METHODOLOGY** : Lectures, Demos, Hands on Session

**LEVEL OF PARTICIPANTS** : Scientists, teachers and research scholars and PG students.

**PREREQUISITES** : Basic knowledge in computers and Molecular biology

**NUMBER OF PARTICIPANTS** : 20 (Twenty)

**EXPECTED DATE OF ANNOUNCEMENT** : 1<sup>st</sup> week of July 2009.

**Boarding & lodging arrangements etc.** : May be provided on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 600/-	Rs.1000/-
SAARC	Rs. 1000/-	Rs. 2000/-
Other Countries	Rs. 1500/-	Rs. 2500/-



**Training Code:** [DIBRUUNIV – 02]

<b>Title</b>	: <i>Biotechnology and Bioinformatics Tools and their application.</i>
<b>Date</b> (from ___ to ___)	: <i>15<sup>th</sup> to 18<sup>th</sup> March 2010.</i>
<b>Duration</b> (in number of days)	: <i>4 days.</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To familiarize the Biotechnology and Bioinformatics Tools and their application in Research to the Research scholars, B.Tech, M.Sc, and M.Tech students.

**CONTENTS:** Molecular biology tools and methods, Tissues culture techniques, Bioinformatics Tools and application.

<b>METHODOLOGY</b>	: Lectures, Demos, Hands on Session
<b>LEVEL OF PARTICIPANTS</b>	: Scientists, research scholars and students
<b>PREREQUISITES</b>	: Basic knowledge in computers and internet use.
<b>NUMBER OF PARTICIPANTS</b>	: 20 (Twenty)
<b>EXPECTED DATE OF ANNOUNCEMENT</b>	: 1 <sup>st</sup> week of Jan., 2010

**Boarding & lodging arrangements etc.** : May be provided on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 600/-	Rs.1000/-
SAARC	Rs. 1000/-	Rs. 2000/-
Other Countries	Rs. 1500/-	Rs. 2500/-

**Contact Address**

**Dr. R. N. S. Yadav, Coordinator**

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**Dr. Y. S. Parmar University of Horticulture &  
Forestry, Solan**

**Training Code:** [YSPUHF-01]

<b>Title</b>	: <i>Application of Bioinformatics in Plant Sciences</i>
<b>Date</b>	: <i>April 20 – 25, 2009</i>
<b>Duration</b> (in number of days)	: <i>6 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Agriculture/Plant Sciences</i>

**OBJECTIVES:** To create awareness among the researchers regarding the use of Bioinformatics tools and their application in plant sciences.

**CONTENTS:** Introduction to Bioinformatics, biological databases, phylogeny, Primer designing, EST analysis, gene identification.

**METHODOLOGY** : Lectures, Demonstrations, Hands on Session

**LEVEL OF PARTICIPANTS** : Scientists, research scholars, students and staff of Bioinformatics Centres

**PREREQUISITES** : Knowledge of basic computer operations and biology

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : March, 2009

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 1000 /-	
SAARC		
Other Countries		

**Training Code:** [YSPUHF-02]

<b>Title</b>	: <i>Molecular Modeling and Drug Designing</i>
<b>Date</b>	: <i>June 8<sup>th</sup> – 12<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>5 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Structural Bioinformatics</i>

**OBJECTIVES:** To provide participants with an insight into the various aspects of in-silico protein modeling, docking and drug design techniques.

**CONTENTS:** Introduction to macromolecular structure, structure database searching, various file formats, information retrieval methods, homology modeling techniques, structure alignment methods, molecular visualization softwares, molecular docking studies and structure based drug designing.

**METHODOLOGY** : Lectures, Demonstrations, Hands on Session

**LEVEL OF PARTICIPANTS** : Scientists, research scholars, students and staff of Bioinformatics Centres

**PREREQUISITES** (Lectures, Demos, Hands on Session, Workshop/Seminar/Symposia etc.) : Knowledge of basic computer Operations and biology

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : May, 2009

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 1500 /-	
SAARC		
Other Countries		

**Training Code:** [YSPUHF-03]

<b>Title</b>	: <i>IPR Awareness Workshop.</i>
<b>Date</b>	: <i>4<sup>th</sup> September, 2009</i>
<b>Duration</b> (in number of days)	: <i>1 day</i>
<b>Subject Area</b> (As per List enclosed)	: <i>IPR</i>

**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

**EXPECTED DATE OF ANNOUNCEMENT** : August, 2009

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 200/-	
SAARC		
Other Countries		

**Contact Address**

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## Forest Research Institute, Dehradun

**Training Code:** [FRI – 01]

<b>Title</b>	: <i>Role of Bioinformatics in Forests Biodiversity</i>
<b>Date</b> (from ___ to ___)	: <i>14-16 December, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Environment &amp; Biodiversity</i>

**OBJECTIVES:** To promote awareness among participants for the use of bioinformatics, in forests biodiversity and various tools in their research work.

**CONTENTS:** Bioinformatics / Biodiversity informatics overview, Molecular Databases, Genetics & tree propagation techniques, Biological collections database & digitization tools & techniques, PHP & MYSQL technology for software development, principles & methods of data cleaning and data quality, Information retrieval and hands-on-sessions on the various topics.

**METHODOLOGY** : Lectures, Demos, Hands on Session, Workshop

**LEVEL OF PARTICIPANTS** : Scientists, Research Scholars, Students

**PREREQUISITES** : Must have basic knowledge of computer, biology, forestry

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : September, 2009

**Boarding & lodging arrangements etc.** : Guest house of FRI, Dehradun

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 1000/-	Rs. 1500/-
SAARC	US\$ 200	US\$ 300
Other Countries	US\$ 200	US\$ 400

### Contact Address

**Er. Neelesh Yadav, Coordinator**

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**Gauhati University, Guwahati****Training Code:** [BIFGU – 01]

<b>Title</b>	: <i>Training course on Current trends in bioinformatics teaching &amp; research</i>
<b>Date</b> (from ___ to __)	: <i>April 7<sup>th</sup> -9<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics, Computational Biology, database &amp; data mining</i>

**OBJECTIVES:** To create awareness towards application of bioinformatics among college/university teachers in biological sciences.

**CONTENTS:** Bioinformatics overview, Biological Databases & information retrieval, PCR primer designing, Biostatistics, molecular docking, Genomics & Proteomics, comparative genomics and application.

**METHODOLOGY** : Lectures, Demos, Hands on Session and seminar.

**LEVEL OF PARTICIPANTS** : College/ University Teachers.

**PREREQUISITES** : Basic knowledge of modern biology and computers.

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : Second week of March 2009

**Boarding & lodging arrangements etc.** : Boarding and lodging are to be borne by the participants.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 600/-	N/A
SAARC		
Other Countries		

**Training Code:** [BIFGU – 02]

<b>Title</b>	: <i>Biological Database Creation with Emphasis on Biodiversity &amp; Conservation</i>
<b>Date</b> (from ___ to ___)	: <i>June 28<sup>th</sup> - 30<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Environment &amp; Biodiversity</i>

**OBJECTIVES:** To empower the teachers, researchers and students for organizing biodiversity database, its management and interlinking on the web.

**CONTENTS:** Database creation, management, storage and retrieval, Application of softwares in Database management with special reference on biodiversity.

**METHODOLOGY** : Lectures, Demos, Hands on Session and Workshop.

**LEVEL OF PARTICIPANTS** : Faculty, Research Scholars and students of Life Sciences.

**PREREQUISITES** : Knowledge of biodiversity and computer operation.

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF** : Second week of May 2009

**ANNOUNCEMENT**

**Boarding & lodging arrangements etc.** : Boarding and lodging are to be borne by the participants.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 600/-	N/A
SAARC		
Other Countries		

**Training Code:** [BIFGU – 03]

<b>Title</b>	: <i>Bioinformatics: Recent Trends in Biological sequence analysis</i>
<b>Date</b> (from ___ to ___)	: <i>November 15<sup>th</sup> -16<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>2 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genome and Proteome Analysis</i>

**OBJECTIVES** :To make participants aware how to subject a DNA or a polypeptide sequence to sequence alignment, sequence databases, Sequence similarity searches and other Bioinformatics methods on computer.

**CONTENTS:** Bioinformatics tools, Molecular Databases, Biological sequence analysis, Homology searching using BLAST & FASTA, Sequence alignment, Phylogenetics, Molecular Simulations.

**METHODOLOGY** : Lectures, Demos and Hands on Session.

**LEVEL OF PARTICIPANTS** : B.Sc., M.Sc. and Ph.D. students of Life Sciences.

**PREREQUISITES** : Basic knowledge of computers.

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : Second week of September 2009.

**Boarding & lodging arrangements etc.** : Boarding and lodging are to be borne by the participants.

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	N/A
SAARC		
Other Countries		



**Training Code:** [BIFGU – 04]

<b>Title</b>	: <i>National Workshop on Bioinformatics in Aquaculture &amp; Wildlife research</i>
<b>Date</b> (from ___ to ___)	: <i>January 21<sup>st</sup> -23<sup>rd</sup>, 2010</i>
<b>Duration</b> (in number of days)	: <i>3 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Animal/ Aqua Sciences</i>

**OBJECTIVES:** To provide a platform to young researcher and students about advancement of bioinformatics tools and their application in aquaculture management and wildlife biology.

**CONTENTS :** Bioinformatics tools, Database concept, Fishbase, Bioinformatics and Biodiversity, Advances in biocomputing, modelling, Biostatistics, genetic diversity and molecular evolution, Application of bioinformatics in fish genetics study, linkage of wildlife forensics and fishery science with bioinformatics, future prospects of bioinformatics in post-genomic era.

**METHODOLOGY** : Lectures, Demos, Hands on Session, Workshop and Seminar.

**LEVEL OF PARTICIPANTS** : Scientists, Faculty, Research Scholars and students of Life Sciences.

**PREREQUISITES** : Basics of Life Sciences.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : First week of November 2009.

**Boarding & lodging arrangements etc.** : Boarding and lodging are to be borne by the participants.

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	N/A
SAARC		
Other Countries		

**Contact Address**

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**G. B. Pant University of Agriculture & Technology,  
Pant Nagar**

**Training Code:** [GBPUAT – 01]

<b>Title</b>	: <i>Gene and Protein Sequence Analysis and Applications in Agriculture</i>
<b>Date</b> (from ___ to ___)	: <i>2nd to 4<sup>th</sup>, September, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Agriculture/ Plant Sciences</i>

**OBJECTIVES:** To train participants with use of various Bioinformatics tools & Techniques to locate orthologous genes/ proteins with potential applications in development of superior crop varieties.

**CONTENTS:** Basics in searching gene & protein sequences from different on-line repositories, training in use of various bioinformatics algorithms & Tools employed in sequence comparison, analysis and application of the obtained results in day to day crop research.

**METHODOLOGY** : Lectures and hands on experience lab sessions

**LEVEL OF PARTICIPANTS** : Ph.D students, young researchers and faculty working in the areas of plant breeding, pathology, bioinformatics..

**PREREQUISITES** : Basic knowledge in Genetics, Biochemistry, and skills in use of a desk top computer.

**NUMBER OF PARTICIPANTS** : 25

**EXPECTED DATE OF ANNOUNCEMENT** : 3<sup>rd</sup> week of June, 2009 in centre's web site:

**Boarding & lodging arrangements etc.** : Selected candidates will be provided with food and accommodation free of cost upon availability.

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/	Rs. 500/
SAARC	US \$ 20.00	US \$ 20.00
Other Countries	US \$ 20.00	US \$ 20.00

**Contact Address**

**Dr. Soma S. Marla, Coordinator**

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Web –Address :	<a href="http://www.gbpuat.ac.in/acads/cbsh/Bioinformatics/home.htm">http://www.gbpuat.ac.in/acads/cbsh/ Bioinformatics/home.htm</a>

**Guru Jambheshwar University of Science & Tech.,  
Hisar**

**Training Code:** [GJUSTH – 01]

<b>Title</b>	: <i>A Workshop on Bioinformatics and its relevance in present context</i>
<b>Date</b> (from ___ to ___)	: <i>09 Nov to 14<sup>th</sup> Nov. 2009</i>
<b>Duration</b> (in number of days)	: <i>One week ( 6 days)</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To provide the theoretical and practical knowledge on using the Bioinformatics tools for Biological Data analysis and Management.

**CONTENTS:**

- Computer & Bioinformatics
- Bioinformatics as a tool in Biological Sciences
- Research in Biological Sciences using Bioinformatics

**METHODOLOGY** : Lectures and Hands on Session

**LEVEL OF PARTICIPANTS** : Faculty/ Scientist/ PG Student and Research staff

**PREREQUISITES** : Basic Computer operations

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : 1<sup>st</sup> August 2009

**Boarding & lodging arrangements etc.** : Boarding and Lodging will be provided on request

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 200/- (Student)	
Rs. 500/- ( faculty)	Rs. 500/- ( Student)	
Rs. 800/- ( Faculty)		
SAARC	Rs. 1000/-	Rs. 2000/-
Other Countries		

**Contact Address**

**Prof. J.S. Rana, Coordinator**

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Web –Address :	www.gju.ernet.in

**Guru Nanak Dev University, Amritsar****Training Code:** [GNDU - 01]

<b>Title</b>	: <i>Understanding Structure-Function relationships in Proteins</i>
<b>Date</b> (from ___ to ___)	: 22-23 October, 2009
<b>Duration</b> (in number of days)	: 2 days
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To train Life Science Students/ Research Fellows & Faculty in Bioinformatics & its Application.

**CONTENTS:** Tools of Bioinformatics

**METHODOLOGY** : Lectures, Demos, Hands on Session

**LEVEL OF PARTICIPANTS** : Faculty Members, Research Fellows, Students

**PREREQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 14-16

**EXPECTED DATE OF ANNOUNCEMENT** :

**Contact Address****Dr. P. K. Pati, Coordinator**

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Web -Address :	http://www.gndu.ac.in

**Holy Cross College, Trichy****Training Code:** [HCC-01]

<b>Title</b>	: <i>Systems Biology approach for Network construction and metabolic pathway analysis</i>
<b>Date</b>	: July 22 <sup>nd</sup> – 24 <sup>h</sup> 2009
<b>Duration</b> (in number of days)	: 3 days
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics</i>

**OBJECTIVES:** To furnish the Scientists with an understanding of the importance of Systems Biology and provide ideas to construct metabolic pathways.

**CONTENTS:** Participants will gain practical experience with the simulation software. A comprehensive lecture and laboratory manual will be provided. Participants will complete team and individual assignments.

**METHODOLOGY** : Lectures, Demos, Hands on Session & Projects.

**LEVEL OF PARTICIPANTS** : PG Bioinformatics students, Scientists and Research Scholars

**PREREQUISITES** : Working knowledge of computers

**NUMBER OF PARTICIPANTS** 20

**EXPECTED DATE OF ANNOUNCEMENT** : June 18<sup>th</sup>

**Boarding & lodging arrangements etc.** Will be arranged on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 2000/-	Rs. 2000/- + actual charges of accommodation
SAARC		
Other Countries		

**Training Code:** [HCC-02]

<b>Title</b>	: <i>Genome and Proteome Analysis</i>
<b>Date</b>	: <i>September 16<sup>th</sup> – 18<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genomics and Proteomics</i>

**OBJECTIVES:** Deciphering biology from genome and proteome sequences using computational analysis which focuses on, “how DNA controls the biology of any species at the molecular level”

**CONTENTS:** Participants will gain practical knowledge on various genome and proteome analysis tools. A comprehensive lecture and laboratory manual will be provided. Participants will complete team and individual assignments.

**METHODOLOGY** : Lectures, Demos, Hands on Session & Projects.

**LEVEL OF PARTICIPANTS** : College Staff

**PREREQUISITES** : Working knowledge of computers

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : August 10<sup>th</sup> 2009

**Boarding & lodging arrangements etc.** : Will be arranged on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 1000/-	Rs. 1000/- + actual charges of accommodation
SAARC Other Countries		

**Training Code: [HCC-03]**

<b>Title</b>	: <i>Protein Structure Prediction and Docking Studies</i>
<b>Date</b>	: <i>Dec 09<sup>th</sup> – 11<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational Biology</i>

**OBJECTIVES:** To gain knowledge on the techniques for molecular modeling with applications to protein and small molecule structure prediction, docking and molecular visualization.

**CONTENTS:** Participants will gain practical skill on molecular modelling. A comprehensive lecture and laboratory manual will be provided. Participants will complete team and individual assignments.

**METHODOLOGY** : Lectures, Demos, Hands on Session & Projects.

**LEVEL OF PARTICIPANTS** : PG Students

**PREREQUISITES** : Working knowledge of computers

**NUMBER OF PARTICIPANTS** 20

**EXPECTED DATE OF ANNOUNCEMENT** : November 4<sup>th</sup> 2009

**Boarding & lodging arrangements etc.** : Will be arranged on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 750/-	Rs. 750/- + actual charges of accommodation
SAARC Other Countries		



**Training Code:** [HCC-04]

<b>Title</b>	: <i>Data mining</i>
<b>Date</b>	: <i>January 28<sup>th</sup> – 30<sup>th</sup> 2010</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational Biology</i>

**OBJECTIVES:** To familiar biologists in extracting the hidden patterns from biological databases and analyzing the same.

**CONTENTS:** Participants will gain practical experience in handling Data Mining software. A comprehensive lecture and laboratory manual will be provided. Participants will complete team and individual assignments.

**METHODOLOGY** : Lectures, Demos, Hands on Session & Projects.

**LEVEL OF PARTICIPANTS** : College Staff

**PREREQUISITES** : Working knowledge of computers

**NUMBER OF PARTICIPANTS** 20

**EXPECTED DATE OF ANNOUNCEMENT** : December 15<sup>th</sup> 2009

**Boarding & lodging arrangements etc.** : Will be arranged on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 2000/-	Rs. 2000/- + actual charges of accommodation
SAARC		
Other Countries		

**Contact Address**

**Dr. Daisy. P, Coordinator**

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**Himachal Pardesh University, Shimla**

Training Code: [HPU-01]

<b>Title</b>	: <i>Functional and Structural Proteomics : An In Silico approach</i>
<b>Date</b>	: 19 – 24 October, 2009
<b>Duration</b> (in number of days)	: 6 Days
<b>Subject Area</b> (As per List enclosed)	: <i>Computational Biology</i>

**OBJECTIVES:** To expose participants to the rapidly developing area of functional & structural proteomics in bioinformatics.

**CONTENTS:** General bioinformatics with special reference to proteomics, Information retrieval system, Various file formats, Molecular visualization, 3-D structure visualization, Structure analysis and prediction, Molecular modelling, Molecular docking method and Drug designing.

**METHODOLOGY** : Lectures followed by hands on tools.

**LEVEL OF PARTICIPANTS** : Post Graduate Students, Research Scholar, Faculty Members and Scientists.

**PREREQUISITES** : Basic knowledge of computers, and Biochemistry

**NUMBER OF PARTICIPANTS** : 10-12

**EXPECTED DATE OF ANNOUNCEMENT** : September 10, 2009

**Boarding & lodging arrangements etc.** : Available on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs.500/-	Rs.1000/-
SAARC	Rs.1500/-	Rs.2000/-
Other Countries	Rs.1500/-	Rs.2000/-

**Contact Address****Prof. T. C. Bhalla, Coordinator**

Phone :	0177-2832154, 53
Fax :	0177-2832154
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Web –Address :	

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

<b>Title</b>	: <i>Bioinformatics Applications in crop science</i>
<b>Date</b> (from ___ to ___)	: 01-12-09 to 03-12-09
<b>Duration</b> (in number of days)	: 3 days
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Agriculture/ Plant Sciences</i>

**OBJECTIVES:** To develop human resources to carry out Bio Informatics applications in Agriculture sciences.

**CONTENTS:** Implementations of bioinformatics tools and software.

**METHODOLOGY** : Lectures, demonstrations, hands on sessions- workshop

**LEVEL OF PARTICIPANTS** : Students, University Teachers and Scientists from R & D Institutions

**PREREQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : Will be announced latter

**Boarding & lodging arrangements etc.** : Limited accommodation subject to availability. Will be allotted based on first come first basis.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 1000	Rs. 1200/-
SAARC	US \$ 50	US \$ 80
Other Countries	US \$ 75	US \$ 100

**Contact Address****Dr. H. Chandrasekharan, Coordinator**

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## Institute of Bioresources and Sustainable Development, Imphal

**Training Code:** [IBSD-01]

<b>Title</b>	: <i>Sequence alignment and Phylogenetic analysis</i>
<b>Date</b> (from ___ to __)	: <i>16<sup>th</sup> to 17<sup>th</sup> March 2009</i>
<b>Duration</b> (in number of days)	: <i>02 days.</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To generate awareness and provide hands on training related to sequence alignment and phylogenetic analysis from a bioinformatics perspective.

**CONTENTS:** Impact of Genome on Human Health, Introduction to Basic Molecular Biology, Sequence analysis using BLAST and Phylogenetic analysis using various softwares.

**METHODOLOGY** : Lectures, Demonstration and Hands on Training.

**LEVEL OF PARTICIPANTS** : Teachers, Scientists, Researcher and Professionals.

**PREREQUISITES** : Basic Knowledge of Computer and Biology

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** :

### Contact Address

**Mr. Sunil S. Thorat, Coordinator**

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**Indian Institute of Spices Research, Calicut****Training Code:** [IISR – 01]

<b>Title</b>	: <i>Cheminformatics – Tools &amp; Applications.</i>
<b>Date</b> (from ___ to ___)	: 20 - 23 October 2009
<b>Duration</b> (in number of days)	: 4 days
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics.</i>

**OBJECTIVES:** To provide hands on training in using cheminformatics tools.**CONTENTS:** Mining of chemical compound structures, chemdraw, prediction of drug like molecular properties, drug designing etc..**METHODOLOGY** : Lectures, Demonstration and hands on session.**LEVEL OF PARTICIPANTS** : Scientists, teachers, research scholars and students.**PREREQUISITES** : Basic knowledge in Bioinformatics, chemistry and computers.**NUMBER OF PARTICIPANTS** : 15**EXPECTED DATE OF ANNOUNCEMENT** : 20 August 2009**Boarding & lodging arrangements etc.** : Available on request.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	ICAR Employees – Nil	Rs.250/-
SAARC		
Other Countries	Others – Rs.2500/-	Rs. 3000/-

**Training Code:** [IISR – 02]

<b>Title</b>	: <i>Recent advances in ESTs Analysis &amp; their annotation.</i>
<b>Date</b> (from ___ to ___)	: <i>17 - 20 November 2009</i>
<b>Duration</b> (in number of days)	: <i>4 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genomics/ proteomics.</i>

**OBJECTIVES:** To provide hands on training on advances in analysis and annotation of ESTs.

**CONTENTS:** Data Mining, Sequence alignment, clustering and assembly, SSRs, SNPs and microRNA identification, Functional Annotation using annotation servers. etc

**METHODOLOGY** : Lectures, Demonstration and hands on session.

**LEVEL OF PARTICIPANTS** : Scientists, teachers, research scholars and students.

**PREREQUISITES** : Basic knowledge in Bioinformatics, biotechnology and computers.

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : 1 Sept. 2009

**Boarding & lodging arrangements etc.** : Available on request.

REGISTRATION FEE	Without Accommodation	With Accommodation
India	ICAR Employees – Nil	Rs.250/-
SAARC		
Other Countries	Others – Rs.2500/-	Rs. 3000/-

**Contact Address**

**Dr. Santhosh J. Eapen, Coordinator**

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Web –Address :	www.spices.res.in

**Indian Institute of Technology (IIT) Delhi****Training Code:** [IITD - 01]

<b>Title</b>	: <i>Short Term Course on Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>March 11-12, 2010</i>
<b>Duration</b> (in number of days)	: <i>2 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To train participants in the basics of bioinformatics and help them learn the scope of bioinformatics beyond what is being discussed in various popular fora.

**CONTENTS:** Molecular Sequence Analysis, Genomics & Proteomics, Phylogenetic Analysis, Molecular Modelling and Drug Design

**METHODOLOGY** : Lectures and Hands on session.

**LEVEL OF PARTICIPANTS** : The course may also be useful to 3<sup>rd</sup> and 4<sup>th</sup> year students of any engineering branch, with some basic knowledge of Chemistry and Biology.

Student who is doing M.Sc/Ph. D. in Biotechnology or any other relevant field

**PREREQUISITES** :

**NUMBER OF PARTICIPANTS** : 25

**EXPECTED DATE OF ANNOUNCEMENT** : January 2010

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
Industry Participants	Rs. 3500/-	
From Academics	Rs. 2000/-	
Other Countries		

**Contact Address****Prof. Sunil Nath, Coordinator**

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E-mail	: iitdelhi.btisnet@nic.in, sundar@dbeb.iitd.ac.in
Web –Address	: <a href="http://web.iitd.ac.in/~btis">http://web.iitd.ac.in/~btis</a>

**Indian Institute of Technology, Kharagpur**

Training Code: [IITK - 01]

<b>Title</b>	: <i>Bioinformatics in Genomics and Proteomics</i>
<b>Date</b> (from ___ to ___)	: <i>October 09<sup>th</sup> – 10<sup>th</sup>, 2009</i>
<b>Duration</b> (in number of days)	: <i>2 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genome and proteome analysis</i>

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

**CONTENTS:** Biological Sequence Analysis, DNA Micro-array, Molecular Markers, Biological Database, Protein Structure Analysis, Immuno-informatics.

**METHODOLOGY** : Lecture, Demos, Hands on session.

**LEVEL OF PARTICIPANTS** : M.Sc., Ph.D. Students & Teachers of Colleges and Universities/Institutes

**PREREQUISITES** : Basic knowledge in Molecular Biology & Computers.

**NUMBER OF PARTICIPANTS** : 70

**EXPECTED DATE OF ANNOUNCEMENT** : June 2009

**Boarding & lodging arrangements etc.** : Institute Guest House in the campus with subsidized rate.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 1200/- (including working lunch)	Rs. 1500/- (sharing 2 nights)
SAARC	Rs. 1200/- (including working lunch)	Rs. 1500/- (sharing 2 nights)
Other Countries	Rs. 1200/- (including working lunch)	Rs. 1500/- (sharing 2 nights)

**Contact Address****Prof. S. C. Kundu, Coordinator**

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**Institute of Life Sciences, Bhubaneswar****Training Code:** [ILS – 01]

<b>Title</b>	: <i>Molecular Modeling of proteins</i>
<b>Date</b> (from ___ to ___)	: <i>18-20 November 2009</i>
<b>Duration</b> (in number of days)	: <i>3 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** To provide basic knowledge of molecular modeling and analysis of the structure of protein by using different software.

**CONTENTS :**

<b>METHODOLOGY</b>	: Workshop
<b>LEVEL OF PARTICIPANTS</b>	: Mid carrier Scientist
<b>PREREQUISITES</b>	: Basic Knowledge of Computer
<b>NUMBER OF PARTICIPANTS</b>	: 16
<b>EXPECTED DATE OF ANNOUNCEMENT</b>	: First week of October

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500 (Student), Rs. 1000 (Faculty)	
SAARC		
Other Countries		

**Contact Address****Dr. Subrata K Das, Coordinator**

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## Kalyani University

**Training Code:** [KALYANI – 01]

<b>Title</b>	: <i>Bioinformatics in Evolutionary Studies</i>
<b>Date</b> (from ___ to ___)	: 23 <sup>th</sup> -26 <sup>th</sup> February, 2010
<b>Duration</b> (in number of days)	: 4 days
<b>Subject Area</b> (As per List enclosed)	: <i>Knowledge Discovery from Data (KDD)</i>

**OBJECTIVES:** To get training in the field of Evolutionary Biology Research.

**CONTENTS:** Present days Evolutionary Biology procedures, phylogenetic analysis.

**METHODOLOGY** : Workshop: Lectures, Demos and Hands on.

**LEVEL OF PARTICIPANTS** : Researchers, Scientists and Teachers.

**PREREQUISITES** : Masters Degree in Biological Sciences.

**NUMBER OF PARTICIPANTS** : Twenty

**EXPECTED DATE OF ANNOUNCEMENT** : One month before the scheduled date

**Boarding & lodging arrangements etc.** : Boarding & lodging can be provided on request based on availability

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 750.00	Separate
SAARC	Rs. 750.00	
Other Countries	Rs. 4000.00	

**Training Code:** [KALYANI – 02]

<b>Title</b>	: <i>Workshop on ‘Application of Molecular Simulation and Dynamics to Predict and Model Biological Molecules and System’ with one day Seminar on ‘Contribution of Crystallography to Bioinformatics’</i>
<b>Date</b> (from ___ to ___)	: <i>September 8<sup>th</sup> -15<sup>th</sup>, 2009</i>
<b>Duration</b> (in number of days)	: <i>7 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** To get training in this broad field of Simulation and modeling.

**CONTENTS:** Basics of Molecular Modeling, Simulation and Application.

**METHODOLOGY** : Workshop: Lectures, Demos and Hands on.

**LEVEL OF PARTICIPANTS** : Students, Researchers, Scientists and Teachers.

**PREREQUISITES** : Masters Degree in Biological Sciences.

**NUMBER OF PARTICIPANTS** : Twenty

**EXPECTED DATE OF ANNOUNCEMENT** : One month before the scheduled date

**Boarding & lodging arrangements etc.** : Boarding & lodging can be provided on request based on availability

REGISTRATION FEE	Without Accommodation	With Accommodation
India	RS. 750.00	Separate
SAARC	Rs. 750.00	
Other Countries	Rs. 4000.00	

**Contact Address**

**Dr. Alpana Seal, Coordinator**

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Web –Address :	http://bifku.in

**Kerala Agricultural University, Thrissur****Training Code:** [KAU – 01]

<b>Title</b>	: <i>Bioinformatics techniques for gene and protein analysis</i>
<b>Date</b> (from ___ to ___)	: 05-10-2009 to 08-10-2009
<b>Duration</b> (in number of days)	: 4 days
<b>Subject Area</b> (As per List enclosed)	: <i>Genome and Proteome Analysis</i>

**OBJECTIVES:** The aim of the course is to educate participants regarding the basics of Bioinformatics tools and their applications in data analysis of Genes and Proteins.

**CONTENTS:** Introduction to Bioinformatics, Biological Databases : sequence, structure and specialized databases, data retrieval, data formats, sequence submission methods, Similarity search and alignment, pairwise & multiple sequence comparison, proteomics, pattern, motif & domain recognition, phylogenetic analysis, gene prediction.

**METHODOLOGY** : Lectures, Demos & hands-on sessions

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

**PREREQUISITES** : Basic knowledge in computers.

**NUMBER OF PARTICIPANTS** : 10

**EXPECTED DATE OF ANNOUNCEMENT** : 07-09-09

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

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs.1000/-	
SAARC		
Other Countries		

**Training Code:** [KAU – 02]

<b>Title</b>	: <i>Computational analysis of biomacromolecular structures.</i>
<b>Date</b> (from ___ to ___)	: <i>09-11-2009 to 12-11-2009</i>
<b>Duration</b> (in number of days)	: <i>4 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** To focus on the practical application of structure analysis, and the role of structural Bioinformatics in Molecular Modelling, Mechanics and Molecular docking.

**CONTENTS:** Introduction to macromolecular structures, structure databases, secondary structure predictions, comparative modeling: concepts, applications, 3D model building, protein- ligand docking, related software packages.

**METHODOLOGY** : Lectures, Demos & hands-on sessions

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

**PREREQUISITES** : Basic knowledge in computers.

**NUMBER OF PARTICIPANTS** : 10

**EXPECTED DATE OF ANNOUNCEMENT** : 08-10-09

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

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs.1000/-	
SAARC		
Other Countries		

**Training Code:** [KAU – 03]

<b>Title</b>	: <i>Principles and methods in Bioinformatics.</i>
<b>Date</b> (from ___ to ___)	: 07-12-2009 to 10-12-2009
<b>Duration</b> (in number of days)	: 4 days
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** This course introduces the computational approach to understand biological phenomena, biological databases, data storage, and also to focus the role of Bioinformatics in biomacromolecular sequence and structure analysis.

**CONTENTS:** Efficient querying from Biological Databases, sequence alignment & database searching, terminology of phylogenetic tree & tree building, genome annotation concepts, structural bioinformatics: methods in homology modeling.

**METHODOLOGY** : Lectures, Demos & hands-on sessions

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

**PREREQUISITES** : Basic knowledge in computers.

**NUMBER OF PARTICIPANTS** : 10

**EXPECTED DATE OF ANNOUNCEMENT** : 09-11-09

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

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs.1000/-	
SAARC		
Other Countries		

**Training Code:** [KAU – 04]

<b>Title</b>	: <i>Workshop on Applications of Bioinformatics in Agricultural Research</i>
<b>Date</b> (from ___ to __)	: 14-01-2010 to 15-01-2010
<b>Duration</b> (in number of days)	: 2 days
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Agriculture/ Plant Sciences</i>

**OBJECTIVES:**

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

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

**PREREQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 50

**EXPECTED DATE OF ANNOUNCEMENT** : 12-11-09

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

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs.1000/-	
SAARC		
Other Countries		

**Contact Address**

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Web –Address :	www.kaubic.in

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

<b>Title</b>	: <i>Bioinformatics and Microbial Diversity</i>
<b>Date</b> (from ___ to ___)	: <i>August 20<sup>th</sup> - 22<sup>nd</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Environment &amp; Biodiversity</i>

**OBJECTIVES:** To provide hands on training on various tools & application of bioinformatics in microbial diversity analysis.

**CONTENTS:** Introduction to bioinformatics, Database search & sequence alignment, Phylogenetic Studies & Basic Bioinformatics tools, CLC workbench, Geneious, HCL Biopack etc.

**METHODOLOGY** : Lectures, Hands on Session and Demonstration of different software.

**LEVEL OF PARTICIPANTS** : Research Scholars, Faculties & Scientist

**PREREQUISITES** : Basic Knowledge of Computers & Life Science Background

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : 20<sup>th</sup> July 2009

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	Extra
SAARC	Rs. 500/-	Extra
Other Countries	Rs. 500/-	

**Contact Address****Dr. Veena Pande, Coordinator**

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Web –Address :	www.kubic.nic.in



**Lady Doak College, Madurai****Training Code:** [LDC - 01]

<b>Title</b>	: <i>National level workshop on “Drug validation through Insilico analysis”</i>
<b>Date</b> (from ___ to ___)	: <i>January 11 - 13</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To provide the theoretical and practical knowledge on using the Bioinformatics tools for validating the drugs through Insilico analysis

**CONTENTS:**

- Lectures from experienced Resource persons
- Hands on session on Insilico tools used for Drug validation

**METHODOLOGY** : Lectures and Hands on Session

**LEVEL OF PARTICIPANTS** : College students and Research Scholars

**PREREQUISITES** : Basic Computer operations and basic biology

**NUMBER OF PARTICIPANTS** : 25

**EXPECTED DATE OF ANNOUNCEMENT** : Nov 1<sup>st</sup>, 2009

**Boarding & lodging arrangements etc.** : Boarding and lodging will not be provided

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	-	Rs. 600/-
SAARC	-	-
Other Countries	-	-

**Contact Address****Dr. R.Shenbagarathai, Coordinator**

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**Lucknow University, Lucknow****Training Code:** [LU – 01]

<b>Title</b>	: <i>Short Term Training Course On Bioinformatics and System Biology</i>
<b>Date</b> (from ___ to ___)	: <i>From October 6 to 8, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Network pathways and system biology</i>

**OBJECTIVES:** The objectives of the 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 the System Biology.

**CONTENTS:** The training is intended to cover concepts of bioinformatics. 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, use of BLAST, FASTA, ClustalW and other sequence and structure analysis tools.

**METHODOLOGY** : Lecture and demonstration will be followed by hands-on session in Bioinformatics lab. Resourced persons from host institution as well as from outside institutions will be invited for delivering lectures and hands on training.

**LEVEL OF PARTICIPANTS** : Faculty, Research Scholars and Students from College, Universities and research organizations.

**PREREQUISITES** : Minimum skill in operation of a desktop computer.

**NUMBER OF PARTICIPANTS** : 20

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

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs.1200/-	Rs. 1600/- (Only Boarding)
SAARC		
Other Countries		

**Training Code:** [LU – 02]

<b>Title</b>	: <i>Short Term Training Course On Bioinformatics : Research &amp; Application</i>
<b>Date</b> (from ___ to ___)	: <i>From February 26 to 28, 2010</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genome and Proteome Analysis</i>

**OBJECTIVES:** The objectives of the 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 the structure prediction & phylogenetic analysis.

**CONTENTS:** The training is intended to cover concepts of bioinformatics. 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, use of BLAST, FASTA, ClustalW, Phylip and other sequence & structure analysis tools.

**METHODOLOGY** : Lecture and demonstration will be followed by hands-on session in Bioinformatics lab. Resourced persons from host institution as well as from outside institutions will be invited for delivering lectures and hands on training.

**LEVEL OF PARTICIPANTS** : Faculty, Research Scholars and Students from College, Universities and research organizations.

**PREREQUISITES** : Minimum skill in operation of a desktop computer.

**NUMBER OF PARTICIPANTS** : 20

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

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs.1200/-	Rs. 1600/- (Only Boarding)
SAARC		
Other Countries		

**Contact Address**

**Prof. U.N. Dwivedi, Coordinator**

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**Manonmaniam Sundaranar University, Tirunelveli****Training Code:** [MSU - 01]

<b>Title</b>	:	Workshop on Molecular Modeling
<b>Date</b> (from ___ to __)	:	11 August 2009
<b>Duration</b> (in number of days)	:	1 day
<b>Subject Area</b> (As per List enclosed)	:	Computational and Structural Bioinformatics

**OBJECTIVES:** Exchange of scientific views on structural Bioinformatics**CONTENTS:** Proteins, Carbohydrates and Nucleic acid structures, Molecular Modelling, Molecular Dynamics Simulation and Drug Design.**METHODOLOGY** : Lectures and Hands on Sessions**LEVEL OF PARTICIPANTS** : P.G, M.Phil , Research Scholar and Faculties**PREREQUISITES** : Nil**NUMBER OF PARTICIPANTS** : 20**EXPECTED DATE OF ANNOUNCEMENT** : July 2009

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 200/-	
SAARC		
Other Countries		

**Training Code:** [MSU – 02]

<b>Title</b>	: <i>Workshop on Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>10 November 2009</i>
<b>Duration</b> (in number of days)	: <i>1 day</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational and Structural Bioinformatics</i>

**OBJECTIVES** : Exchange of scientific views on structural Bioinformatics

**CONTENTS**: Proteins, Carbohydrates and Nucleic acid structures, Molecular Modelling, Molecular Dynamics Simulation and Drug Design.

**METHODOLOGY** : Lectures and Hands on Session

**LEVEL OF PARTICIPANTS** : P.G, M.Phil and Research Scholars

**PREREQUISITES** : -

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : October 2009

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 200/-	
SAARC		
Other Countries		

**Training Code:** [MSU – 03]

<b>Title</b>	: <i>National Conference on Structural Bioinformatics 2010</i>
<b>Date</b> (from ___ to ___)	: <i>27 – 28 January 2010</i>
<b>Duration</b> (in number of days)	: <i>2 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational and Structural Bioinformatics</i>

**OBJECTIVES:** Exchange of scientific views on structural Bioinformatics

**CONTENTS:** Proteins, Carbohydrates and Nucleic acid structures, Molecular Modelling, Molecular Dynamics Simulation and Drug Design.

**METHODOLOGY** : Symposia

**LEVEL OF PARTICIPANTS** : P.G, M.Phil , Research Scholar and Faculties

**PREREQUISITES** : -

**NUMBER OF PARTICIPANTS** : 100

**EXPECTED DATE OF ANNOUNCEMENT** : November 2009

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	Rs. 1000/-
SAARC	Rs. 1000/-	Rs. 2000/-
Other Countries	Rs. 2000/-	Rs. 4000/-

**Contact Address**

**Dr. K. Veluraja, Coordinator**

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Web –Address	

**Madras Christian College, Chennai****Training Code:** [MCC - 01]

<b>Title</b>	:	<i>Use of Bioinformatics Software</i>
<b>Date</b> (from ___ to ___)	:	<i>June 25-27 (tentative)</i>
<b>Duration</b> (in number of days)	:	<i>3 days</i>
<b>Subject Area</b>	:	<i>Genome and Proteome Analysis</i>

**OBJECTIVES:** To enable the participants to apply computational Methods in genomics and proteomics research.

**CONTENTS:** Genomics and Proteomics

**METHODOLOGY** : Lectures, Demos & Hands-on Training

**LEVEL OF PARTICIPANTS** : Biology based MCC Faculty members

**PREREQUISITES** : Biology background with computer knowledge

**NUMBER OF PARTICIPANTS** : 30-40

**EXPECTED DATE OF ANNOUNCEMENT** : May 2<sup>nd</sup> week



**Training Code:** [MCC – 02]

<b>Title</b>	: <i>Introduction to Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>July 23, 24(tentative)</i>
<b>Duration</b> (in number of days)	: <i>2 days</i>
<b>Subject Area</b>	: <i>Bioinformatics with respect to Environment &amp; Biodiversity</i>

**OBJECTIVES:** To enable the non-biologist to understand Bioinformatics and its application with respect to Environment and Biodiversity.

**CONTENTS:** Introduction to Bioinformatics Application, Database sequence Analysis, Protein Structure, Molecular Docking, Drug Designing.

**METHODOLOGY** : Lectures, Demos & Hands-on Training

**LEVEL OF PARTICIPANTS** : Non – Biology MCC Faculty Members

**PREREQUISITES** : Basic computer background

**NUMBER OF PARTICIPANTS** : 30-40

**EXPECTED DATE OF ANNOUNCEMENT** : June 2<sup>st</sup> week

**Training Code:** [MCC – 03]

<b>Title</b>	: <i>Principles and Applications of Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>August 5-7(tentative)</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b>	: <i>General Bioinformatics Training</i>

**OBJECTIVES:** To familiarize the teachers in the advancement of Biology, use of Bioinformatics tools in Biology.

**CONTENTS:** Biological Database, Sequence analysis, Molecular docking, Molecular modeling

**METHODOLOGY** : Lectures, Demos & Hands-on session

**LEVEL OF PARTICIPANTS** : Plus 2 School Teachers

**PREREQUISITES** : Basic knowledge in Computers with Biology background.

**NUMBER OF PARTICIPANTS** : 20 - 30

**EXPECTED DATE OF ANNOUNCEMENT** : July 1<sup>st</sup> week

**Contact Address**

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**Madras Veterinary College, Chennai****Training Code:** [MVC – 01]

<b>Title</b>	: <i>Bioinformatics &amp; its Applications</i>
<b>Date</b> (from ___ to ___)	: <i>From 01<sup>st</sup> – 05<sup>th</sup> March 2010</i>
<b>Duration</b> (in number of days)	: <i>5 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To update the computer skills and knowledge of scientists & teaching faculties in the area of Bioinformatics & Information Technology

**CONTENTS:**

- Bioinformatics & application of IT for R&D
- Online database retrieval
- Molecular Modeling
- Biological Databases
- Molecular Docking

**METHODOLOGY** : Lectures, Demos and Hands on Session.

**LEVEL OF PARTICIPANTS** : Scientists, Research Scholars and teaching faculties

**PREREQUISITES** : Knowledge of computer operation preferable

**NUMBER OF PARTICIPANTS** : 25-30

**EXPECTED DATE OF ANNOUNCEMENT** : 4<sup>th</sup> January 2010

**Boarding & lodging arrangements etc.** : All participants must make arrangements their own boarding and lodging arrangement. However, Accommodation may be arranged on payment basis on first come first served basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 1500/-	
SAARC	Rs. 1500/-	
Other Countries	US \$ 100	

**Contact Address****Dr. D. Dhanapalan, Coordinator**

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## Mahatma Gandhi Institute of Medical Sciences, Sevagram

**Training Code:** [MGIMS – 01]

<b>Title</b>	: <i>12<sup>th</sup> Workshop on 'Biomedical Informatics and Communication'</i>
<b>Date</b> (from ___ to __)	: <i>From November 20 to 21, 2009</i>
<b>Duration</b> (in number of days)	: <i>2 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Medical Sciences</i>

**OBJECTIVES:** Sensitization of Medical Teachers, Scientists and PG / PhD students about Biomedical Informatics / Health Informatics, Hospital Information System, Evidence based Medicine, Telemedicine & other areas related to proteomics, genomics etc. and Biomedical Communication.

**CONTENTS:** *Interesting lectures on:*

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

**METHODOLOGY** : Workshop will comprise of interesting Lectures, Demonstrations, Hands on Sessions by the Eminent Experts and experienced resource persons.  
A one day Special session on Biomedical Communication will be organized.

**LEVEL OF PARTICIPANTS** : Medical teachers, young Scientists and Postgraduate students in Medicine and Life sciences.

**PREREQUISITES** : Participants should already be familiar with computer usage and having interest in Medical / Health Informatics.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : July 2009  
Advertisement will be available online at [www.bicjbtdrc-mgims.in](http://www.bicjbtdrc-mgims.in) & [www.jbtdrc.org](http://www.jbtdrc.org)

**Boarding & lodging arrangements etc.** : Boarding and lodging facility will be provided on payment and first come first served basis.

**Any other relevant information, if any** : So far we have organized 11 National level Workshops / Symposium / CME on 'Medical Informatics & Biomedical Communication'.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 600/-	Rs. 1000/-
SAARC	\$25	\$30
Other Countries	\$50	\$60

**Contact Address**

**Dr. B. C. Harinath, Coordinator**

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Web –Address :	<a href="http://www.bicjbtdrc-mgims.in">www.bicjbtdrc-mgims.in</a> , <a href="http://www.jbtdrc.org">www.jbtdrc.org</a>

**Mizoram University, Aizawl, Mizoram****Training Code:** [MZU - 01]

<b>Title</b>	: <i>Bioinformatics : Current approaches and applications</i>
<b>Date</b> (from ___ to ___)	: <i>September 22 – 23, 2009.</i>
<b>Duration</b> (in number of days)	: <i>Two days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To introduce about the emerging trends & applications of Bioinformatics and to provide hands on training on bioinformatics tools in biological research.

**CONTENTS:** Bioinformatics web resources & tools, Online databases & retrieval of biological information, Sequence and Phylogenetic analysis etc.

**METHODOLOGY** : Lectures, Demos, Hands on Session.

**LEVEL OF PARTICIPANTS** : Teachers/ Researchers/ Ph.D. Scholars

**PREREQUISITES** : Preliminary knowledge of computers and internet

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : 10 August 2009

**Boarding & lodging arrangements etc.** : Participants may be accommodated in the Hotels / lodges against payment.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 200/-	
SAARC		
Other Countries		

**Training Code:** [MZU – 02]

<b>Title</b>	: <i>Bioinformatics : Overview and applications</i>
<b>Date</b> (from ___ to ___)	: <i>March 23 – 24, 2010.</i>
<b>Duration</b> (in number of days)	: <i>Two days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To create awareness and interest in Bioinformatics and to introduce the basics of bioinformatics tools in biological research.

**CONTENTS:** Introduction to Bioinformatics, web resources & tools, Online databases & usefulness of bioinformatics, etc.

**METHODOLOGY** : Lectures, Demos, Hands on Session.

**LEVEL OF PARTICIPANTS** : School teachers/ Undergraduate students/ School students – all with biology background.

**PREREQUISITES** : Preliminary knowledge of computers and internet

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : 20 February 2010

**Boarding & lodging arrangements etc.** : Participants may be accommodated in the Hotels / lodges against payment.

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 50/-	
SAARC		
Other Countries		

**Contact Address**

**Dr. N. Senthil Kumar, Coordinator**

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Web –Address :	www.mzuedu.in

## Maharani Lakshmi Ammanni College For Women, Bangalore

**Training Code:** [MLACW – 01]

<b>Title</b>	: <i>eBiotech Workshop (Gene to drug through dry lab-wet lab interaction)</i>
<b>Date</b> (from _ to _)	: <i>April 10<sup>th</sup> – 12<sup>th</sup>, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational and Structural Bioinformatics</i>

**OBJECTIVES:** To analyze and explore real life scientific problems in wet lab to dry lab experience, , using bioinformatics techniques.

**CONTENTS:** Sequence Analysis: Data resources (DNA/protein sequence), Tools and techniques in analysis, Gene prediction, PCR primer design & optimization. Detecting a gene in wet lab (Demo Session) by PCR techniques.

**METHODOLOGY** : Hands on session

**LEVEL OF PARTICIPANTS** : Students & faculties of Biotech/ Bioinformatics/Pharmaceutical and Medical schools

**PREREQUISITES** : Life Sciences knowledge

**NUMBER OF PARTICIPANTS** : 20-25

**EXPECTED DATE OF ANNOUNCEMENT** : 26 Feb.'2009

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 1000/-	Rs. 1000/- + Rs. 200/- per day
SAARC		
Other Countries		



**Training Code:** [MLACW – 02]

<b>Title</b>	: <i>Drug discovery through commercial softwares</i>
<b>Date</b> (from _ to __)	: <i>August 10<sup>th</sup> – 11<sup>th</sup>, 2009</i>
<b>Duration</b> (in number of days)	: <i>2 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational and Structural Bioinformatics, Bioinformatics trainings for technical personnel working for the BTISnet Centres</i>

**OBJECTIVES:** To enhance knowledge of drug discovery through commercial software.

**CONTENTS:** Commercial software for Drug designing like Discovery (Accelrys, USA)

**METHODOLOGY** : Hands on session cum Demos.

**LEVEL OF PARTICIPANTS** : BIF Coordinators & faculties of Biotech/Bioinformatics/Life Sciences

**PREREQUISITES** : Life Sciences knowledge

**NUMBER OF PARTICIPANTS** : 20-25

**EXPECTED DATE OF ANNOUNCEMENT** : 01<sup>st</sup>, April.'2009

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 1000/-	Rs. 1000/- + Rs. 400/- per day
SAARC		
Other Countries		

**Training Code:** [MLACW – 03]

<b>Title</b>	: <i>Teach Syllabus</i>
<b>Date</b> (from _ to __)	: <i>March 10<sup>th</sup> – 17<sup>th</sup>, 2009</i>
<b>Duration</b> (in number of days)	: <i>7 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Training</i>

**OBJECTIVES:** To equip P.G. students for bioinformatics techniques as per their syllabus.

**CONTENTS :** MSc Syllabus as per Bangalore university.

**METHODOLOGY** : Lectures, Demo, Hands on session

**LEVEL OF PARTICIPANTS** : P.G. Students & faculties of Biotech/  
Bioinformatics from Bangalore  
university

**PREREQUISITES** : Life Sciences knowledge

**NUMBER OF PARTICIPANTS** : 25

**EXPECTED DATE OF  
ANNOUNCEMENT** : 10<sup>th</sup> Feb. '2009

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 1000/-	Rs. 1000/- + Rs. 200/- per day
SAARC		
Other Countries		

**Contact Address**

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## University of North Bengal, Siliguri

**Training Code:** [UNB - 01]

<b>Title</b>	: <i>Molecular modeling and drug designing: A structural biology approach</i>
<b>Date</b> (from ___ to ___)	: <i>October 30-November 1, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational biology and structural bioinformatics</i>

**OBJECTIVES:** Training on Molecular Modeling and Computer based Drug Design.

**CONTENTS:** Homology modeling, Protein visualization, Dynamics and molecular docking

**METHODOLOGY** : Seminar/Lectures, Demos and Hands on training

**LEVEL OF PARTICIPANTS** : Students, Research Scholars, Teachers and Scientists

**PREREQUISITES** : M.Sc. in any discipline with basic knowledge in Biology and Computer

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : 31<sup>st</sup> August, 2009

**Boarding & lodging arrangements etc.** : May be arranged for outstation candidates on payment basis and prior request

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/- (Including working lunch)	Rs. 800/- (Including working lunch)
SAARC	-DO-	-DO-
Other Countries	-DO-	-DO-

**Training Code:** [UNB – 02]

<b>Title</b>	: <i>Bioinformatics in Biodiversity and environmental protection</i>
<b>Date</b> (from ___ to ___)	: <i>January 15-17, 2010</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Environment and Biodiversity</i>

**OBJECTIVES:** Training on computational aspects of biodiversity and conservation applying bioinformatics

**CONTENTS:** Biodiversity databases, Management of biodiversity and environment through bioinformatics

**METHODOLOGY** : Seminar/Lectures, Demos and Hands on training

**LEVEL OF PARTICIPANTS** : Students, Research Scholars, Teachers and Scientists

**PREREQUISITES** : Msc in any discipline with basic knowledge in Biology and Computer

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : November 15, 2009

**Boarding & lodging arrangements etc.** : May be arranged for outstation candidates on payment basis and prior request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/- (Including working lunch)	Rs. 800/- (Including working lunch)
SAARC	-DO-	-DO-
Other Countries	-DO-	-DO-

**Contact Address**

**Dr. Arnab Sen, Coordinator**

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Web –Address :	www.nbu.ac.in

**National Dairy Research Institute, Kanral**

Training Code: [NDRI – 01]

<b>Title</b>	: <i>National Workshop on “Computational Tools and Analysis of Gene Regulation</i>
<b>Date</b> (from ___ to ___)	: <i>October 22-24, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational Tools and Analysis of Gene Regulation.</i>

**OBJECTIVES:** To acquaint Scientists and Postgraduate Scholars with concepts and application of computational tools in the area of gene expression and regulation.

**CONTENTS:** Sequence analysis, qPCR, identification, isolation and analysis of transcriptional start site, promoter prediction and promoter characterization, Methylation and bisulfite specific primer designing, Methylation analysis, Chromatin remodeling.

**METHODOLOGY** : Lectures, Demos and hands on Sessions.

**LEVEL OF PARTICIPANTS** : Scientists, Post Graduate Students and Research Scholars/Post Doctoral fellows.

**PREREQUISITES** : Basic knowledge of computers and knowledge of Physiology, Genetics, Biochemistry and Molecular Biology/ Animal Sciences etc.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : 15<sup>th</sup> September, 2009

**Boarding & lodging arrangements etc.** : Boarding and lodging charges to be borne by the participants (if accommodation required).

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs.1500/- (Scientists/Faculty)	Boarding and Lodging charges to be borne by the participants (if accommodation required)

**Training Code:** [NDRI – 02]

<b>Title</b>	: <i>National Workshop on Emerging Machine Learning Techniques in Bio-informatics</i>
<b>Date</b> (from ___ to __)	: <i>December 16-18, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Animal/Aqua Sciences.</i>

**OBJECTIVES:** To provide training on emerging Machine Learning techniques and their applications in Bio-informatics to the Scientists, Teachers and Post Graduate Students/Research Scholars in Bioinformatics, Animal Sciences and other related areas.

**CONTENTS:** Introduction to modern Artificial Intelligence Techniques. Concepts and Applications of Artificial Neural Networks and Support Vector Machines, Genetic Algorithms, Fuzzy Logic Systems, Rough Sets, Data Mining to Bioinformatics and Animal Sciences.

**METHODOLOGY** : Lectures, Demos and hands on Sessions.

**LEVEL OF PARTICIPANTS** : Scientists/Teachers, Postgraduate students/Research Scholars in Computer Science and Bioinformatics.

**PREREQUISITES** : Basic knowledge of computers and biology.

**NUMBER OF PARTICIPANTS** : 25

**EXPECTED DATE OF ANNOUNCEMENT** : 15<sup>th</sup> November, 2009

**Boarding & lodging arrangements etc.** : Boarding and lodging charges to be borne by the participants (if accommodation required).

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs.1500/- (Scientists/Faculty)	Boarding and Lodging charges to be borne by the participants (if accommodation required)
SAARC	Rs.1000/- (Students/Scholars)	
Other Countries	Rs.2500/- US \$ 500	

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## National JALMA Institute for Leprosy & Other Mycobacterial Diseases

**Training Code:** [JALMA – 01]

<b>Title</b>	: <i>Application of Bioinformatics in Modern Biology</i>
<b>Date</b> (from ___ to __)	: 10 <sup>th</sup> – 14 <sup>th</sup> August, 2009
<b>Duration</b> (in number of days)	: 5 Days
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** To teach the applications of bioinformatics tools for use in modern biological research.

**CONTENTS:** Bioinformatics tools related to database retrieval, sequence analysis, genomics, proteomics and phylogenetic analysis.

**METHODOLOGY** : Lectures, Demos and hands on Sessions.

**LEVEL OF PARTICIPANTS** : Scientists, Research Scholars, Students

**PREREQUISITES** : Basic knowledge of computer applications

**NUMBER OF PARTICIPANTS** : 15 (including 5 Faculty members)

**Boarding & lodging arrangements etc.** : On payment, if available

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	
SAARC		
Other Countries		

**Training Code:** [JALMA – 02]

<b>Title</b>	: <i>Application of Bioinformatics Tools and Techniques for Gene and Protein Analysis</i>
<b>Date</b> (from ___ to __)	: <i>14<sup>th</sup> – 18<sup>th</sup> December, 2009</i>
<b>Duration</b> (in number of days)	: <i>5 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** To promote the usage of bioinformatics, genome and proteome analysis tools among participants for their research work.

**CONTENTS:** Bioinformatics tools related to database retrieval, sequence analysis, genomics, proteomics and phylogenetic analysis and their implications.

**METHODOLOGY** : Lectures, Demos and hands on Sessions.

**LEVEL OF PARTICIPANTS** : Scientists, Research Scholars, Students

**PREREQUISITES** : Basic knowledge of computer applications

**NUMBER OF PARTICIPANTS** : 15 (including 5 Faculty members)

**Boarding & lodging arrangements etc.** : On payment, if available

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	
SAARC		
Other Countries		

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## Narendra Deva University of Agriculture & Technology, Faizabad

**Training Code:** [NDUAT – 01]

<b>Title</b>	: <i>Role of Bioinformatics in agriculture and Biodiversity Management</i>
<b>Date</b> (from ___ to __)	: <i>September 09</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics, Agriculture and Biodiversity Management</i>

**OBJECTIVES:** To create awareness among participants in the field of Bioinformatics and their role in agriculture, and to familiarize them with latest developments in area of Bioinformatics, and also management of biodiversity databases and its interlinking on the web.

**CONTENTS:** Introduction to Bioinformatics, Application of Bioinformatics in Agriculture, Sequence Analysis, Biological databases and their management, Nature of biological data with special reference on biodiversity.

**METHODOLOGY** : Lectures, Descriptions, Demos and Hands on Session

**LEVEL OF PARTICIPANTS** : Teachers and Research Scholars

**PREREQUISITES** : Above M.Sc. and Basic Knowledge of Computer

**NUMBER OF PARTICIPANTS** : 12

**Boarding & lodging arrangements etc.** : On demand

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 1000/-	Rs. 1500/-
SAARC		
Other Countries		

### Contact Address

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**National Institute of Technology, Raipur**

(Training Code: [NITR – 01])

<b>Title</b>	: <i>Basics of Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: 28 <sup>th</sup> – 30 <sup>th</sup> September 2009
<b>Duration</b> (in number of days)	: 3 days
<b>Subject Area</b> (As per List enclosed)	: <i>Introduction to Bioinformatics with Different Software</i>

**OBJECTIVES:** To provide the practical knowledge of Bioinformatics online/basic tools.

**CONTENTS:**

- Introduction to Bioinformatics.
- NCBI Tools & online resources.
- Rasmol, CN3D, Modeler, Swisspdb.

**METHODOLOGY** : Demos and Hands on Session

**LEVEL OF PARTICIPANTS** : PG Students and Research scholars.

**PREREQUISITES** : Basic Computer operations

**NUMBER OF PARTICIPANTS** : 30

**EXPECTED DATE OF ANNOUNCEMENT** : 1<sup>st</sup> August 2009

**Boarding & lodging arrangements etc.** : Boarding and Lodging will be provided on request

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	
SAARC		
Other Countries		

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**North-East Institute of Science & Technology, Jorhat**

Training Code: [NEIST - 01]

<b>Title</b>	: <i>Cheminformatics &amp; Computer Aided Drug Designing</i>
<b>Date</b> (from ___ to __)	: <i>August 18<sup>th</sup>-20<sup>th</sup>, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** To impart knowledge about the importance of chemistry software's & chemical database to the P.G. students & Research scholars in biological science & chemical science.

**CONTENTS :** Overview, Chemical databases, Chemical file formats, Information retrieval methods, 2D & 3D chemical structure sketching & visualization, Chemistry software's, small compound library designing, Structure based drug designing & Virtual screening.

**METHODOLOGY** : Lectures, Demonstration & Hands on session in the lab.

**LEVEL OF PARTICIPANTS** : PG students, Research Scholars, Faculty members in any branch of life science & chemical science or relevant field.

**PREREQUISITES** : Basic knowledge of organic chemistry & computers.

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : August first week

**Boarding & lodging arrangements** : Will be arranged on request & advance payment.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 1000/- Academic Institutions	
SAARC	Rs. 2000/- Commercial Organizations	
Other Countries		

**Training Code:** [NEIST – 02]

<b>Title</b>	: <i>Sequence Analysis &amp; Alignment</i>
<b>Date</b> (from ___ to ___)	: <i>December 7<sup>th</sup>-9<sup>th</sup>, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Knowledge discovery from data (KDD)</i>

**OBJECTIVES:** To impart knowledge about the importance of computational biology & biological data resource available on the internet.

**CONTENTS:** Bioinformatics Overview, Biological databases, Information retrieval, Sequence similarity searching, Sequence alignment, Phylogenetic Analysis, Restriction analysis, Primer designing etc.

**METHODOLOGY** : Lectures, Demonstration & Hands on session in the lab.

**LEVEL OF PARTICIPANTS** : PG students, Research Scholars, Faculty members in any branch of life science or relevant field.

**PREREQUISITES** : Basic knowledge of molecular biology & computers.

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : November last week

**ANNOUNCEMENT**

**Boarding & lodging arrangements** : Will be arranged on request & advance payment.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 600/- Academic Institutions Rs. 1000/- Commercial Organizations	
SAARC		
Other Countries		

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## North Eastern Regional institute of Science & Technology, Nirjuli

**Training Code:** [NERIST – 01]

<b>Title</b>	: <i>Bioinformatics: Tools, Techniques &amp; Applications</i>
<b>Date</b> (from ___ to __)	: 6 <sup>th</sup> to 8 <sup>th</sup> August, 2009
<b>Duration</b> (in number of days)	: 3 days
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Training</i>

**OBJECTIVES:** To create awareness and basic knowledge on bioinformatics, different tools and techniques with their applications

**CONTENTS:**

- (1) Defining bioinformatics & scopes
- (2) Tools and techniques in Bioinformatics
- (3) Application of bioinformatics tools

**METHODOLOGY** : Lectures, Demos and Hands on Session

**LEVEL OF PARTICIPANTS** : Teachers, Researchers and Students

**PREREQUISITES** : Basic knowledge on Biology and allied subjects

**NUMBER OF PARTICIPANTS** : 30

**EXPECTED DATE OF ANNOUNCEMENT** : 15<sup>th</sup> June, 2009

REGISTRATION FEE	Without Accommodation	With Accommodation
India (Rs)	Rs. 1000/500*	Rs. 1500/ 750*
SAARC		
Other Countries		

\*Student researchers and Students

**Training Code:** [NERIST – 02]

<b>Title</b>	: “ <i>Bioinformatics Software-Database Development, Management and Applications</i> ”
<b>Date</b> (from ___ to ___)	: 12 <sup>th</sup> to 14 <sup>th</sup> November, 2009
<b>Duration</b> (in number of days)	: 3 days
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Training</i>

**OBJECTIVES** : To provide a hands on training on different software for development of databases and their applications

**CONTENTS** : (1) MS Access, Oracle, Perl, MySQL, Sybase, etc

**METHODOLOGY** : Lectures, Demos and Hands on Session

**LEVEL OF PARTICIPANTS** : Teachers, Graduate Students and Researchers

**PREREQUISITES** : Basic knowledge on Biology and computer use

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : 14<sup>th</sup> September, 2009

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India (Rs)	Rs. 1000/500*	Rs. 1500/ 750*
SAARC		
Other Countries		

\*Researchers and Graduate students

**Training Code:** [NERIST – 03]

<b>Title</b>	: “Applications of Bioinformatics in Biological and Biochemical Research”
<b>Date</b> (from ___ to ___)	: 4 <sup>th</sup> to 6 <sup>th</sup> February, 2010
<b>Duration</b> (in number of days)	: 3 days
<b>Subject Area</b> (As per List enclosed)	: General Bioinformatics Training

**OBJECTIVES:** To provide a hands on training on different software, databases, tools and techniques in specific biological and biochemical research

**CONTENTS:** (1) Bioinformatics tools for Research in Biology & Biochemical Sciences

(2) Databases for Research in Biology & Biochemical Sciences

**METHODOLOGY** : Lectures, Demos and Hands on Session

**LEVEL OF PARTICIPANTS** : Teachers, Graduate Students and Researchers

**PREREQUISITES** : Advanced knowledge on Biology and Biochemistry

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : 14<sup>th</sup> December, 2009

REGISTRATION FEE	Without Accommodation	With Accommodation
India (Rs)	Rs. 1000/500*	Rs. 1500/ 750*
SAARC		
Other Countries		

\*Researchers and Graduate students

**Contact Address**

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**National Institute for Plant Genome Research, New Delhi****Training Code:** [NIPGR-01]

<b>Title</b>	: <i>National Workshop on "Use of Bioinformatics in Plant Biology"</i>
<b>Date</b> (from ___ to ___)	: <i>12<sup>th</sup> March to 13<sup>th</sup> March 2010</i>
<b>Duration</b> (in number of days)	: <i>2 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Agriculture/ Plant Sciences</i>

**OBJECTIVES:** To give an overview of the field**CONTENTS:** Examples on the use of bioinformatics for addressing problems related to genome and proteome analysis in plants.**METHODOLOGY** : Lectures, Demos and Hands on Sessions**LEVEL OF PARTICIPANTS** : Plant Researchers from academia / industry**PREREQUISITES** : Nil**NUMBER OF PARTICIPANTS** : 20**EXPECTED DATE OF ANNOUNCEMENT** : Early March**Boarding & lodging arrangements etc.** : Participants have to arrange their own accommodation

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India/SAARC/Others	Rs. 1000/-	NA

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**North-Eastern Hill University, Shillong****Training Code:** [NEHU – 01]

<b>Title</b>	: <i>Bioinformatics: A Practical Approach</i>
<b>Date</b> (from ___ to ___)	: <i>To be announced</i>
<b>Duration</b> (in number of days)	: <i>5 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Structural Bioinformatics, Evolution and Phylogenetics and Bioinformatics in Environment and Biodiversity</i>

**OBJECTIVES:** To generate awareness and provide hands on training related to Bioinformatics

**CONTENTS :**

- Bioinformatics Database resources for wet-bench scientists
- Navigating sequenced genomes
- Sequence similarity searches
- Finding regulatory elements in DNA sequences
- Multiple Sequence Alignment and inferring phylogenetic trees from sequence data
- Protein structure, classification and prediction

**METHODOLOGY** : Lectures, Demos and Hands on Session

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

**PREREQUISITES** :

**NUMBER OF PARTICIPANTS** : 30

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India/SAARC/Others	Rs. 1500/-	NA

**Training Code:** [NEHU – 02]

<b>Title</b>	: <i>Orientation Training Towards Bioinformatics National Certification Examination 2010 for Students of North-Eastern Region of India.</i>
<b>Date</b> (from ___ to ___)	: <i>15<sup>th</sup> November – 15<sup>th</sup> December 2009</i>
<b>Duration</b> (in number of days)	: <i>1 month</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Training</i>

**OBJECTIVES:** To Orient the students of North- Eastern region of India for BINC Exam 2010.

**CONTENTS:** Molecular Biology

- Molecular Biology
- Basic Mathematics, Statistics, Physics & Chemistry
- Information Technology
- Programming in Object Oriented Languages
- Bioinformatics

**METHODOLOGY** : Lectures, Demos and Hands on Session

**LEVEL OF PARTICIPANTS** : Post Graduates in Science and Bachelor Degree in Engineering with interest in Bioinformatics.

**PREREQUISITES** :

**NUMBER OF PARTICIPANTS** : 20

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**Presidency College, Kolkata****Training Code:** [PC - 01]

<b>Title</b>	: <i>National Workshop on Bioinformatics: Sequence Analyses</i>
<b>Date</b> (from ___ to ___)	: <i>July 15 – 22, 2009</i>
<b>Duration</b> (in number of days)	: <i>3days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics &amp; Genomics / Proteomics / Biological Database / Structure based bioinformatics approaches</i>

**OBJECTIVES:** To give an in depth idea of the role of computational tools & biological databases in sequence analysis of nucleotide and protein sequences. Also includes phylogenetic inference.

**CONTENTS:**

- Introduction to BLAST and FASTA
- Detecting conserved sequences in nucleic acid and proteins
- Analysis of specific regulatory sites in nucleic acids and proteins
- Inferring phylogenetic information.

**METHODOLOGY** : Lectures, Demonstrations and hands on session.

**LEVEL OF PARTICIPANTS** : Scientists, research scholars, post graduate students in biological / chemical / medical / engineering discipline.

**PREREQUISITES** : Basic knowledge of computer operation.

**NUMBER OF PARTICIPANTS** : 20

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India (Rs)	Rs. 500/-	—
SAARC		
Other Countries		

**Training Code:** [PC – 02]

<b>Title</b>	: <i>National Workshop on Bioinformatics: Drug Modelling</i>
<b>Date</b> (from ___ to ___)	: <i>August 1 – 8, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics &amp; Genomics / Proteomics / Biological Database / Structure based bioinformatics approaches</i>

**OBJECTIVES:** To give an in depth idea of the role of computational tools in molecular modeling, molecular mechanics and molecular visualization.

**CONTENTS:**

- Introduction to molecular viewing – Rasmol
- Modelling using Swiss pdb viewer / modeller
- Drug – molecule interactions using Hex or Autodock
- Using Drug – bank and Wombat-PK

**METHODOLOGY** : Lectures, Demonstrations and hands on session.

**LEVEL OF PARTICIPANTS** : Scientists, research scholars, post graduate students in biological / chemical / medical / engineering discipline.

**PREREQUISITES** : Basic knowledge of computer operation.

**NUMBER OF PARTICIPANTS** : 20

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India (Rs)	Rs. 500/-	—
SAARC		
Other Countries		

**Training Code:** [PC – 03]

<b>Title</b>	: <i>National Workshop on Bioinformatics: Protein-Protein Interaction.</i>
<b>Date</b> (from ___ to ___)	: <i>October 20 – 31, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics &amp; Genomics / Proteomics / Biological Database / Structure based bioinformatics approaches</i>

**OBJECTIVES:** To give an in depth idea of the role of computational tools & biological databases in comparative proteomics.

**CONTENTS:**

- Protein – Protein Interaction
- Introduction, navigation and mining of protein – protein interaction data
- Databases of protein – protein interaction.
- Use of downloadable tools eg: Cytoscape

**METHODOLOGY** : Lectures, Demonstrations and hands on session.

**LEVEL OF PARTICIPANTS** : Scientists, research scholars, post graduate students in biological / chemical / medical / engineering discipline.

**PREREQUISITES** : Basic knowledge of computer operation.

**NUMBER OF PARTICIPANTS** : 20

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India (Rs)	Rs. 500/-	—
SAARC		
Other Countries		

**Training Code:** [PC – 04]

<b>Title</b>	: <i>National Workshop on Bioinformatics &amp; Molecular Modelling</i>
<b>Date</b> (from ___ to ___)	: <i>November 23 – 30, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics &amp; Genomics / Proteomics / Biological Database / Structure based bioinformatics approaches</i>

**OBJECTIVES:** To give an in depth idea of the role of computational tools in molecular modeling, molecular mechanics and molecular visualization.

**CONTENTS:**

- Introduction to molecular viewing – Rasmol
- Modelling using Swiss pdb viewer / modeller
- Drug – molecule interactions using Hex or Autodock
- Using Drug – bank and Wombat-PK.

**METHODOLOGY** : Lectures, Demonstrations and hands on session.

**LEVEL OF PARTICIPANTS** : Scientists, research scholars, post graduate students in biological / chemical / medical / engineering discipline.

**PREREQUISITES** : Basic knowledge of computer operation.

**NUMBER OF PARTICIPANTS** : 20

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India (Rs)	Rs. 500/-	—
SAARC		
Other Countries		

**Training Code:** [PC – 05]

<b>Title</b>	: <i>National Workshop on Algorithms in Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>December 24 – 31, 2009</i>
<b>Duration</b> (in number of days)	: <i>7 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics &amp; Genomics / Proteomics / Biological Database / Structure based bioinformatics approaches</i>

**OBJECTIVES:** To give an in depth idea of the role of programming using Bio – Perl and an introduction to the various databases on Bioinformatics with insights on the important servers.

**CONTENTS:**

- Introduction to Bio – perl
- Data Mining using Bio – Perl
- Algorithms of Bioinformatics
- Databases on Bioinformatics

**METHODOLOGY** : Lectures, Demonstrations and hands on session.

**LEVEL OF PARTICIPANTS** : Scientists, research scholars, post graduate students in biological / chemical / medical / engineering discipline.

**PREREQUISITES** : Basic knowledge of computer operation.

**NUMBER OF PARTICIPANTS** : 20

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India (Rs)	Rs. 500/-	—
SAARC		
Other Countries		

Training Code: [PC – 06]

<b>Title</b>	: <i>National Workshop on Bioinformatics &amp; NA Structure Analyses</i>
<b>Date</b>	: <i>February 15 – 22, 2009</i>
<b>Duration</b>	: <i>3 days</i>
<b>Subject Area</b>	: <i>Bioinformatics &amp; Genomics / Proteomics / Biological Database / Structure based bioinformatics approaches</i>

**OBJECTIVES:** To give an in depth idea of the role of computational tools & biological databases in sequence analysis of the RNA genome – miRNA, siRNA, and other secondary structures of RNA.

**CONTENTS:**

- Introduction to RNA secondary structure.
- RNA structural elements.
- Identification of RNA secondary motifs using various softwares
- Identifying and viewing tRNA structural elements.
- Phylogenetic analysis using RNA sequences.

**METHODOLOGY** : Lectures, Demonstrations and hands on session.

**LEVEL OF PARTICIPANTS** : Scientists, research scholars, post graduate students in biological / chemical / medical / engineering discipline.

**PREREQUISITES** : Basic knowledge of computer operation.

**NUMBER OF PARTICIPANTS** : 20

REGISTRATION FEE	Without Accommodation	With Accommodation
India (Rs)	Rs. 500/-	—
SAARC		
Other Countries		

**Contact Address**

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**Pondicherry University, Pondicherry**

Training Code: [PU – 01]

<b>Title</b>	: <i>Workshop on Recent Trends in Structural Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>September 16-18, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:**

**CONTENTS:** Hands on experience on different packages used for Structural Bioinformatics with lecture inputs

**METHODOLOGY** : Workshop, Demos and Hands on Session

**LEVEL OF PARTICIPANTS** : National

**PREREQUISITES** : Interest in Structural Biology

**NUMBER OF PARTICIPANTS** : 30 (on first come first served basis)

**EXPECTED DATE OF ANNOUNCEMENT** : August 03, 2009

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

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
<b>India</b>		
Industry	Rs. 2500/-	
Staff	Rs. 1500/-	
Student	Rs. 1000/-	
<b>SAARC</b>	US\$ 75.00	US\$ 100.00
<b>Other Countries</b>	US\$ 200.00	US\$ 250.00

**Training Code:** [PU – 02]

<b>Title</b>	: <i>Workshop on Recent Advancements in Structure Based Drug Design Methods</i>
<b>Date</b> (from ___ to ___)	: <i>February 17-19, 2010</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Medical Sciences</i>

**OBJECTIVES :**

**CONTENTS :** To create awareness towards application of structural bioinformatics among students, researchers and Teachers in modern biology

**METHODOLOGY** : Workshop

**LEVEL OF PARTICIPANTS** : National

**PREREQUISITES** : Interest in Molecular Modeling and Drug Design

**NUMBER OF PARTICIPANTS** : 30 (on first come first served basis)

**EXPECTED DATE OF ANNOUNCEMENT** : December 15, 2009

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

REGISTRATION FEE	Without Accommodation	With Accommodation
<b>India</b>		
Industry	Rs. 2500/-	
Staff	Rs. 1500/-	
Student	Rs. 1000/-	
<b>SAARC</b>	US\$ 75.00	US\$ 100.00
<b>Other Countries</b>	US\$ 200.00	US\$ 250.00

**Contact Address**

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**Rajiv Gandhi Centre for Biotechnology, Trivandrum**

Training Code: [RGCB - 01]

<b>Title</b>	:	<i>Perl Programming for Bioinformatics</i>
<b>Date</b> (from ___ to __)	:	<i>24<sup>th</sup> to 26<sup>th</sup> June 2009</i>
<b>Duration</b> (in number of days)	:	<i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	:	<i>Application of Perl in Bioinformatics</i>

**OBJECTIVES:** To familiarize researchers with the knowledge in Perl programming to perform specific tasks in Bioinformatics using coding programs.

**CONTENTS:** Introduction to Perl in Linux environment, Getting started with Perl, The Art of Programming, Sequences and Strings, Finding Patterns and Motifs, Subroutines and Object Oriented Programming.

**METHODOLOGY** : Lectures, Demonstrations, Presentations, Seminar

**LEVEL OF PARTICIPANTS** : Scientists/Research Scholars/ P.G students in the field of Bioinformatics

**PREREQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 50 (Tentative)

**EXPECTED DATE OF ANNOUNCEMENT** :

**Training Code:** [RGCB – 02]

<b>Title</b>	: <i>Hands on training in Molecular modeling</i>
<b>Date</b>	: <i>20<sup>th</sup> to 22<sup>nd</sup> January 2010</i>
<b>Duration</b>	: <i>3 day</i>
<b>Subject Area</b>	: <i>Structural Bioinformatics</i>

**OBJECTIVES:** To give training in molecular modeling tools which will help enable them in their research work in the areas molecular modeling, docking, drug design etc.

**CONTENTS:** Introduction to Discovery Studio 2.0 molecular modeling software

**METHODOLOGY** : Lectures, Demonstrations, Hands on Session

**LEVEL OF PARTICIPANTS** : Research Scholars and Ph.D. students

**PREREQUISITES** : In-house participants

**NUMBER OF PARTICIPANTS** : 25

**EXPECTED DATE OF ANNOUNCEMENT** :

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**Rajiv Gandhi University, Itanagar****Training Code:** [RGU – 01]

<b>Title</b>	: <i>Biodiversity conservation through database development</i>
<b>Date</b> (from ___ to ___)	: <i>October 27<sup>th</sup> -30<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>4 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Environment &amp; Biodiversity</i>

**OBJECTIVES:** To empower the participants for organizing the biodiversity databases, its management.

**CONTENTS :**Introduction to database and its applications, nature of database with special reference to biodiversity database development using MS. Access

**METHODOLOGY** : Lectures, Demos, hand on Session

**LEVEL OF PARTICIPANTS** : M.Sc Students, Research Scholar, Teachers and Scientists

**PREREQUISITES** : Knowledge in computer and biology

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : August 2009

**Boarding & lodging arrangements etc.** : Will be arranged in the university guest house on prior intimation.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/- (including working lunch)	Rs. 700/- (including working lunch)
SAARC	-Do-	-Do-
Other Countries		

**Training Code:** [RGU – 02]

<b>Title</b>	: <i>Bioinformatics for Biodiversity conservation</i>
<b>Date</b> (from ___ to ___)	: <i>February 16<sup>th</sup> -18<sup>th</sup> 2010</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Environment &amp; Biodiversity</i>

**OBJECTIVES:** To create awareness and familiarize among the participants about the application of bioinformatics for biodiversity conservation.

**CONTENTS:** lectures, Demo, hands on bioinformatics tools and application

**METHODOLOGY** : Lectures, Demos, hand on Session

**LEVEL OF PARTICIPANTS** : M.Sc Students, Research Scholar, Teachers and Scientist

**PREREQUISITES** : Basic knowledge in computer and biology

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : December 2009

**Boarding & lodging arrangements etc.** : Will be arranged in the university guest house on prior intimation.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/- (including working lunch)	Rs. 700/- (including working lunch)
SAARC	-Do-	-Do-
Other Countries		

**Contact Address**

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## SK University of Agricultural Sciences and Technology of Kashmir, Srinagar

**Training Code:** [SKUASTK – 01]

<b>Title</b>	:	<i>Molecular Diagnosis of Infectious diseases</i>
<b>Date</b> (from ___ to __)	:	20-22 Sep 2009
<b>Duration</b> (in number of days)	:	3 days
<b>Subject Area</b> (As per List enclosed)	:	<i>Molecular Diagnostics</i>

**OBJECTIVES:** The training program is aimed to introduce and acquaint the researchers/ scientists/field veterinarians with advances in molecular diagnostics and use of bioinformatics tools

**CONTENTS:**

- Overview of the microbial diversity involved in animal diseases
- Isolation and Characterization of pathogens
- Introduction to DNA based tools in disease diagnoses
- Recombinant DNA vaccines
- Introduction to bioinformatics tools in disease diagnoses

**METHODOLOGY** : Lectures, Demos, Hands on Session

**LEVEL OF PARTICIPANTS** : Scientists, teachers and research scholars from colleges / universities

**PREREQUISITES** : Basic knowledge in life sciences

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : 15 July 2009

**Boarding & lodging arrangements etc.** : Boarding and Lodging will be provided on request

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	Rs. 1100/-
SAARC		
Other Countries		

**Training Code:** [SKUASTK – 02]

<b>Title</b>	: <i>Techniques in Molecular Biology and Bioinformatics Tools applied to Agriculture &amp; Animal Sciences</i>
<b>Date</b> (from ___ to __)	: 25-27 Nov 2009
<b>Duration</b> (in number of days)	: 3 days
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Training</i>

**OBJECTIVES:** The training program is aimed to give hands on training to the scientists, research scholars about some basic techniques in molecular biology, and to acquaint them about the bioinformatics tools for management and analysis of the biological databases

**CONTENTS:**

- Introduction to techniques in molecular biology and their applications
- Molecular Markers and their applications in crop and livestock improvement
- Identification of QTLs / major genes affecting traits of economic importance
- Marker Assisted Selection in different crop varieties for faster genetic improvement
- Development of livestock cloning technologies
- Molecular techniques in diseases diagnosis

**METHODOLOGY** : Lectures, Demos, Hands on Session

**LEVEL OF PARTICIPANTS** : Scientists, teachers and research scholars from colleges / universities

**PREREQUISITES** : Basic knowledge in Computer operations, life sciences

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : 1 Sep 2009

**Boarding & lodging arrangements etc.** : Boarding and Lodging will be provided on request

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	Rs. 1100/-
SAARC		
Other Countries		

**Contact Address**

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Web –Address :	



## Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow

Training Code: [SGPGI – 01]

<b>Title</b>	: <i>Homology modeling</i>
<b>Date</b> (from ___ to __)	: <i>August 8-9, 2009</i>
<b>Duration</b> (in number of days)	: <i>2 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational and Structural Bioinformatics</i>

**OBJECTIVES:** To familiarize researchers with predicting 3 dimensional protein structure.

**CONTENTS:** Lectures and demonstrations on experimental aspects of protein structure prediction.

**METHODOLOGY** : Lectures, Demonstration and Hands on sessions.

**LEVEL OF PARTICIPANTS** : Scientist, Teachers, Medicos, Research fellows

**PREREQUISITES** : Basic knowledge in computers.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : July first week

REGISTRATION FEE	Without Accommodation	With Accommodation
India (Rs)	Rs. 500/-	Boarding and lodging as per Institute Guest House
SAARC		
Other Countries		

**Training Code:** [SGPGI – 02]

<b>Title</b>	: <i>Bioinformatics tools &amp; techniques for gene and protein analysis.</i>
<b>Date</b> (from ___ to ___)	: <i>February 13-14, 2010</i>
<b>Duration</b> (in number of days)	: <i>2 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics, Genome and Proteome analysis</i>

**OBJECTIVES:** To create awareness among participants about the use of Bioinformatics, genome and proteome analysis tools in their research work.

**CONTENTS:** Bioinformatics & applications for database retrieval, biological sequence analysis, genomics, proteomics and phylogenetic analysis.

**METHODOLOGY** : Lectures, Demonstration and Hands on sessions.

**LEVEL OF PARTICIPANTS** : Scientist, Teachers, Medicos, Research fellows

**PREREQUISITES** : Basic knowledge in computers.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : First week of January

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India (Rs)	Rs. 500/-	Boarding and lodging as per Institute Guest House
SAARC		
Other Countries		

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**Sant Gadge Baba Amravati University, Amravati****Training Code:** [SGBAU - 01]

<b>Title</b>	: <i>Bioinformatics Tools and its application In Biology</i>
<b>Date</b> (from ___ to ___)	: <i>September 3-5, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** To train Life Science Research fellows and Faculty in Bioinformatics and its applications.

**CONTENTS:** Introduction to Bioinformatics Sequences, search tools, Bioinformatics web resources & tools, Use of various software in Bioinformatics, Emerging concepts Bioinformatics.

**METHODOLOGY** : Lectures, Demonstrations and hands on training

**LEVEL OF PARTICIPANTS** : Scientists, Teachers, Research Scholars

**PREREQUISITES** : Basic Knowledge of Computers

**NUMBER OF PARTICIPANTS** : 10-15

**EXPECTED DATE OF ANNOUNCEMENT** : July 2009

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	
SAARC	Rs. 1000/-	

**Training Code:** [SGBAU – 02]

<b>Title</b>	: <i>Computational approaches to Molecular Biology</i>
<b>Date</b> (from ___ to ___)	: <i>December 28-30, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational and Structural Bioinformatics</i>

**OBJECTIVES:** To train Life Science Research fellows and Faculty in Bioinformatics and its applications.

**CONTENTS :** Tools of Bioinformatics

**METHODOLOGY** : Lectures, Demos, Hands on Session

**LEVEL OF PARTICIPANTS** : Scientists, Teachers, Research Scholars

**PREREQUISITES** : Basic Knowledge of Computers

**NUMBER OF PARTICIPANTS** : 10-15

**EXPECTED DATE OF ANNOUNCEMENT** : October 2009

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	
SAARC	Rs. 1000/-	
Other Countries		

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**S. Kula Women's College, Manipur**

Training Code: [BIFSKWC - 01]

<b>Title</b>	: <i>Training course on Application of Bioinformatics Tools in Biology</i>
<b>Date</b> (from ___ to ___)	: <i>April 9<sup>th</sup> -11<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Training</i>

**OBJECTIVES:** Exposure to various tools and techniques in Bioinformatics, Database development and languages.

**CONTENTS:** Introduction to Bioinformatics, Sequence search tools, Bioinformatics web resources & tools, Basics of Genomics & Proteomics, Emerging concepts of Biotechnology and Bioinformatics, Sequence analysis and phylogeny prediction, cheminformatics.

**METHODOLOGY** : Lectures, Demos, Hands on Session and Workshop.

**LEVEL OF PARTICIPANTS** : Teachers, Research scholars, M.Sc. students in Biological Sciences.

**PREREQUISITES** : Basic knowledge of computer.

**NUMBER OF PARTICIPANTS** : 25

**EXPECTED DATE OF ANNOUNCEMENT** : Last week of February 2009.

**Boarding & lodging arrangements etc.** : Boarding and lodging are to be borne by the participants

REGISTRATION FEE	Without Accommodation	With Accommodation
India		
SAARC	Rs. 500/-	N/A
Other Countries		

**Training Code:** [BIFSKWC – 02]

<b>Title</b>	: <i>Application of Bioinformatics in Biodiversity</i>
<b>Date</b> (from ___ to ___)	: <i>April 27<sup>th</sup> -29<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics, Computational Biology, Biodiversity of Manipur.</i>

**OBJECTIVES:** To create awareness towards application of bioinformatics among college/university teachers in biological sciences.

**CONTENTS:** Bioinformatics overview, Biological Databases & information retrieval,

**METHODOLOGY** : Lectures, Demos, Hands on Session and seminar.

**LEVEL OF PARTICIPANTS** : College/ University Teachers/ Research scholars.

**PREREQUISITES** : Basic knowledge of modern biology and computers.

**NUMBER OF PARTICIPANTS** : 100

**EXPECTED DATE OF ANNOUNCEMENT** : Second week of March 2009

**Boarding & lodging arrangements etc.** : Boarding and lodging are to be borne by the participants

REGISTRATION FEE	Without Accommodation	With Accommodation
India		
SAARC	Rs. 500/-	N/A
Other Countries		

**Training Code:** [BIFSKWC – 03]

<b>Title</b>	: <i>Biological Database Creation with Emphasis on Biodiversity &amp; Conservation of endemic and endangered species of Manipur.</i>
<b>Date</b> (from ___ to ___)	: <i>August 24<sup>th</sup> - 26<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Environment &amp; Biodiversity</i>

**OBJECTIVES:** To empower the teachers, researchers and students for organizing biodiversity database, its management and interlinking on the web.

**CONTENTS:** Database creation, management, storage and retrieval, Application of softwares in Database management with special reference on biodiversity.

**METHODOLOGY** : Lectures, Demos, Hands on Session and Workshop.

**LEVEL OF PARTICIPANTS** : Faculty, Research Scholars and students of Life Sciences.

**PREREQUISITES** : Knowledge of biodiversity and computer operation.

**NUMBER OF PARTICIPANTS** : 25

**EXPECTED DATE OF ANNOUNCEMENT** : Second week of July 2009

**Boarding & lodging arrangements etc.** : Boarding and lodging are to be borne by the participants

REGISTRATION FEE	Without Accommodation	With Accommodation
India		
SAARC	Rs. 600/-	N/A
Other Countries		

**Training Code:** [BIFSKWC – 04]

<b>Title</b>	: <i>Application of Bioinformatics in Biotechnology for learning activities</i>
<b>Date</b> (from ___ to ___)	: <i>December 15<sup>th</sup> -17<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genomic and Proteomic Analysis</i>

**OBJECTIVES:** To make participants aware how to subject a DNA or a poly-peptide sequence to sequence alignment, sequence databases, Sequence similarity searches and other Bioinformatics methods on computer.

**CONTENTS:** Bioinformatics tools, Molecular Databases, Biological sequence analysis, Homology searching using BLAST & FASTA, Sequence alignment, Phylogenetics.

**METHODOLOGY** : Lectures, Demos and Hands on Session.

**LEVEL OF PARTICIPANTS** : B.Sc., M.Sc. and Ph.D. students of Life Sciences.

**PREREQUISITES** : Basic knowledge of computers.

**NUMBER OF PARTICIPANTS** : 25

**EXPECTED DATE OF ANNOUNCEMENT** : Second week of November, 2009.

**Boarding & lodging arrangements etc.** : Boarding and lodging are to be borne by the participants

REGISTRATION FEE	Without Accommodation	With Accommodation
India		
SAARC	Rs. 500/-	N/A
Other Countries		



**Training Code:** [BIFSKWC – 05]

<b>Title</b>	: <i>Application of Bioinformatics in Medicinal Plants of Manipur .</i>
<b>Date</b> (from ___ to ___)	: <i>February 15<sup>th</sup> -17<sup>th</sup> , 2010</i>
<b>Duration</b> (in number of days)	: <i>3 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Medicinal Plants of Manipur.</i>

**OBJECTIVES:** To provide a platform to young researcher and students about advancement of bioinformatics tools and their application in Medicinal Plants management.

**CONTENTS:** Bioinformatics tools, Database concept, Bioinformatics and Biodiversity, Advances in biocomputing, modelling, Biostatistics, genetic diversity and molecular evolution, Application of bioinformatics in Plant genetics study.

**METHODOLOGY** : Lectures, Demos, Hands on Session, Workshop and Seminar.

**LEVEL OF PARTICIPANTS** : Scientists, Faculty, Research Scholars and students of Life Sciences.

**PREREQUISITES** : Basics of Life Sciences.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : First week of January 2010.

**Boarding & lodging arrangements etc.** : Boarding and lodging are to be borne by the participants

REGISTRATION FEE	Without Accommodation	With Accommodation
India		
SAARC	Rs. 1000/-	N/A
Other Countries		

**Contact Address**

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**St. Aloysius College, Mangalore****Training Code:** [SAC – 01]

<b>Title</b>	: <i>Workshop on “Bioinformatics in Genomics and Proteomics”</i>
<b>Date</b> (from ___ to ___)	: <i>16 – 18 April 2009</i>
<b>Duration</b> (in number of days)	: <i>3 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genome and Proteome Analysis</i>

**OBJECTIVES:** To provide the researcher’s hands on training on various use of bioinformatics Tools and their applications in genomics and Proteomics.

**CONTENTS:** Will cover the recent study in Genomics and Proteomics and Human Genome Project

**METHODOLOGY** : Lecture, Demonstration and Practical sessions with hands on Training.

**LEVEL OF PARTICIPANTS** : M.Sc., Ph.D Students and Teachers of College and universities.

**PREREQUISITES** : Must have basic knowledge in molecular biology and computers

**NUMBER OF PARTICIPANTS** : 30

**EXPECTED DATE OF ANNOUNCEMENT** : 1<sup>st</sup> week of April

**Boarding & lodging arrangements etc.** : Will be provided on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 600/-	Rs. 200/- Per Day
SAARC	Rs. 1500/-	
Other Countries	Rs. 3000/-	

**Training Code:** [SAC – 02]

<b>Title</b>	: <i>Paper presentation on “Genome and proteome Analysis</i>
<b>Date</b> (from ___ to ___)	: <i>21<sup>st</sup> August 2009.</i>
<b>Duration</b> (in number of days)	: <i>1 Day</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genome and Proteome Analysis</i>

**OBJECTIVES:** To provide a platform for the upcoming researchers to exhibit their talents and present their research papers.

**CONTENTS:** Presentation of the research papers done by research fellows

**METHODOLOGY** : Paper Presentation

**LEVEL OF PARTICIPANTS** : B.Sc., M.Sc., And Research Students.

**PREREQUISITES** : B.Sc., M.Sc., and Research Students

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : 1<sup>st</sup> week of August

**Boarding & lodging arrangements etc.** : Will be provided on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	Rs. 200/- Per Day
SAARC		
Other Countries		

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## Sikkim State Council of Science and Technology, Gangtok

**Training Code:** [SSCST – 01]

<b>Title</b>	: <i>Biological Database creation, Bioinformatics Data Abstraction and Data Mining</i>
<b>Date</b> (from ___ to ___)	: <i>April 21<sup>st</sup> -25<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>5 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Knowledge Discovery from Data (KDD)</i>

**OBJECTIVES:** To provide a detail concept of Biological databases and it's applications for carrying out various research works in the field of Bioinformatics & Biotechnology.

**CONTENTS:** Introduction to Biological/Bioinformatics databases, Sequence retrieval, Data Mining, Applications and Tools.

**METHODOLOGY** : Lectures, Demos and Hands on session

**LEVEL OF PARTICIPANTS** : BTISnet Staffs, Researchers, Lecturers and P.G. Students

**PREREQUISITES** : Minimum Science Graduates with basic knowledge of Computer.

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : April 2<sup>nd</sup> 2009

**Boarding & lodging arrangements etc.** : On request

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	Accommodation shall be arranged on request on self payment basis.
SAARC	Rs. 1500/-	
Other Countries	Rs. 1500/-	

**Training Code:** [SSCST – 02]

<b>Title</b>	: <i>Comparative Genomics and Protein Structure Analysis</i>
<b>Date</b> (from ___ to ___)	: <i>May 4<sup>th</sup> -8<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>5 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genome and Proteome Analysis</i>

**OBJECTIVES:** To familiarize the trainees with different genome projects and various protein prediction tools and techniques.

**CONTENTS:** Comparative genome analysis, application and tools, protein structure prediction( visualization tools ,Chemical structure drawing and homology modeling)

**METHODOLOGY** : Lectures, Demos and Hands on session

**LEVEL OF PARTICIPANTS** : BTISnet staffs, Researchers, Lecturers and P.G. Students

**PREREQUISITES** : Minimum Science Graduates with basic knowledge of Computer

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : April 20<sup>th</sup> 2009

**Boarding & lodging arrangements etc.** : On request

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	Accommodation shall be arranged on request on self payment basis.
SAARC	Rs. 1500/-	
Other Countries	Rs. 1500/-	

**Contact Address**

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## Sardar Vallabh Bhai Patel University of Agriculture & Technology, Meerut

**Training Code:** [SVBPUAT – 01]

<b>Title</b>	: <i>Application of Bioinformatics in biotechnology teaching and research</i>
<b>Date</b> (from ___ to ___)	: 29 <sup>th</sup> October to 9 <sup>th</sup> November, 2008
<b>Duration</b> (in number of days)	: 12 days
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:**

- To familiarize with the Basics of computer and Information Technology.
- To provide exposure to various tools and techniques in Bioinformatics for teaching.
- To learn Bioinformatics softwares and their application in different fields of biological sciences.

**CONTENTS:** Introduction to Basic concepts of computers, Internet, Networking, DBMS. Bioinformatics web resources & tools, Use of various softwares in bioinformatics, Basics of Genomics, Proteomics & emerging concepts of Biotechnology and Bioinformatics. Sequence analysis and phylogeny prediction.

**METHODOLOGY** : Lectures, Demonstration, Hands on session, workshop

**LEVEL OF PARTICIPANTS** : Research scholars, students

**PREREQUISITES** : Minimum science Graduate in Bioinformatics, Biotechnology or IT

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : September, 2009

**Boarding & lodging arrangements etc.** : Accommodation may be provided for outstation participants, if required, at the University Guest house at normal rates only at their own cost

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 500/-	
SAARC		
Other Countries		

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## Sri Krishnadevaraya University, Anantapur

**Training Code:** [SKUA – 01]

<b>Title</b>	: <i>National Training Program on “Computers for Biologists”</i>
<b>Date</b> (from ___ to ___)	: <i>22<sup>nd</sup> to 24<sup>th</sup> August 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computers, Internet, Literature Collection, Basic Bioinformatics tools with respect to DNA / Protein sequence analysis.</i>

**OBJECTIVES:** To provide hands on training to the students and researchers about the latest developments in the bioinformatics and computational tools in analysis of DNA/Protein sequence analysis.

**CONTENTS:** Basics and applications of Computer and Internet in Biology, Recent developments in Bioinformatics tools with respect to DNA / Protein sequence analysis.

**METHODOLOGY** : Workshop-cum-training using Lectures, demo, hands on session

**LEVEL OF PARTICIPANTS** : Students, Research Scholars, Scientists

**PREREQUISITES** : Essentially participants should have Computer/ internet and molecular biology.

**NUMBER OF PARTICIPANTS** : 35

**EXPECTED DATE OF ANNOUNCEMENT** : July, 2009

**Boarding & lodging arrangements etc.** : University Guest house or Local rest houses/hostels.

REGISTRATION FEE	Without Accommodation	With Accommodation
India		
Students	Rs. 500/-	Actuals
Research Scholars & Staff	Rs. 1000/-	Actuals
SAARC		
Other Countries		

**Training Code:** [SKUA – 02]

<b>Title</b>	: <i>Laboratory Training Program on “Genomics and Proteomics”</i>
<b>Date</b> (from ___ to ___)	: <i>11<sup>th</sup> to 13<sup>th</sup> December 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Sequence analysis, Biological databases, Phylogenetics, Multiple sequence analysis, 3-D visualizations etc.,</i>

**OBJECTIVES:** To provide laboratory individual hands on training in the field of genomic and Proteomic analysis for the Research scholars and Faculty using web-resources developed in Bioinformatics.

**CONTENTS:** Basics and applications of Sequence analysis with special reference to DNA and Proteins. Exploration of DATABASE for sequence analysis, Molecular visualization tools in analysis of 3-D structure of proteins etc.

**METHODOLOGY** : Workshop-cum-training using Lectures, demo, hands on session

**LEVEL OF PARTICIPANTS** : Students, Research Scholars, Scientists

**PREREQUISITES** : Participants with knowledge of structural biology and internet are preferred.

**NUMBER OF PARTICIPANTS** : 35

**EXPECTED DATE OF ANNOUNCEMENT** : November 2009

**Boarding & lodging arrangements etc.** : University Guest house or Local rest houses/hostels.

REGISTRATION FEE	Without Accommodation	With Accommodation
India		
Research Scholars & Staff	Rs. 1000/-	Actuals
SAARC		
Other Countries		



**Training Code:** [SKUA – 03]

<b>Title</b>	: <i>National Workshop on “ 3-D structure Prediction of Drug targeted Proteins”</i>
<b>Date</b> (from ___ to ___)	: <i>12<sup>th</sup> nd to 14<sup>th</sup> February 2010</i>
<b>Duration</b> (in number of days)	: <i>3</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Protein Sequence analysis, Secondary structure predictions, Homology Modeling, Energy minimization, Evaluation and Validation of 3-D predicted structure etc.,</i>

**OBJECTIVES:** To provide hands on expertise in prediction of 3-D structure of drug targeted proteins using MODELLER. Final evaluation of predicted model using online resources, energy minimization and Molecular Visualization tool for 3-D structure of Protein.

**CONTENTS:** Protein structure at Primary, Secondary, Tertiary and quaternary level. Prediction of secondary structure of Proteins. Homology Modeling using MODELLER. Preparation of files for MODELLER and energy minimization. Validity of predicted structure of Protein. Molecular visualization of predicted 3-D structure of Proteins.

**METHODOLOGY** : Workshop-cum-training using Lectures, demo, hands on session

**LEVEL OF PARTICIPANTS** : Research Scholars, Faculty and Scientists

**PREREQUISITES** : Participants with knowledge of structural biology

**NUMBER OF PARTICIPANTS** : 30

**EXPECTED DATE OF ANNOUNCEMENT** : January 2010

**Boarding & lodging arrangements etc.** : University Guest house or Local rest houses/hostels.

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India (Research Scholars & Staff) SAARC Other Countries	Rs. 1000/-	Actuals

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**Sri Venkateswara College, New Delhi****Training Code:** [SVC – 01]

<b>Title</b>	: <i>Drug Discovery Informatics</i>
<b>Date</b> (from ___ to ___)	: <i>December 2009 ( Dates to be announced later)</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** To generate awareness among representatives from research institutions, industries, academia, and students on various issues in Drug Design.

**CONTENTS:** Protein-ligand interactions, ADME/T Prediction, QSAR Models, Drug Design Approaches.

**METHODOLOGY** : Lectures, Demos, Hands on session

**LEVEL OF PARTICIPANTS** : Research scholars, College teachers, Post Graduate Students

**PREREQUISITES** : NIL

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : August 2009

**Boarding & lodging arrangements etc.** : Accommodation on request

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 1000/-	Rs. 1500/-
SAARC		
Other Countries		

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**Sri Venkateswara Institute of Medical Science  
(SVIMS), Tirupati**

**Training Code:** [SVIMS – 01]

<b>Title</b>	: <i>National workshop on Structural Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>December 9<sup>th</sup> – 11<sup>th</sup> 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Structural Bioinformatics</i>

**OBJECTIVES:** To give an idea of role of structural bioinformatics in molecular modeling, molecular dynamics and drug designing.

**CONTENTS:** Protein structure prediction, molecular dynamics, ligand searching and docking.

**METHODOLOGY** : Lectures, Demos and Hands on Session.

**LEVEL OF PARTICIPANTS** : Scientist/Faculty members/Research Scholars/ Students in life science/ medical science/ pharmacy.

**PREREQUISITES** : Working knowledge of computers

**NUMBER OF PARTICIPANTS** : 20

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 1000/-	NA
SAARC	Rs. 500/-	
Other Countries		

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**Tamil Nadu Agricultural University, Coimbatore**

Training Code: [TAU - 01]

<b>Title</b>	: <i>Training Programme on "Protein Structure Prediction and Docking"</i>
<b>Date</b> (from ___ to ___)	: <i>From 15<sup>th</sup> Feb 2009 to 19<sup>th</sup> Feb 2009</i>
<b>Duration</b> (in number of days)	: <i>5 Days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics with respect to Agriculture/ Plant Sciences</i>

**OBJECTIVES:** To impart basic training on the applications of Molecular Modeling and Docking

**CONTENTS:**

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

**METHODOLOGY** : Lectures and Hands on Session.

**LEVEL OF PARTICIPANTS** : Students, Research Scholars and Faculty

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

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : Jan 1<sup>st</sup> week

**Boarding & lodging arrangements etc.** : On Request

REGISTRATION FEE	Without Accommodation	With Accommodation
India		NA
Students	Rs. 250/-	
Faculty/ Research Scholars	Rs. 500/-	
SAARC		
Other Countries		

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**Tropical Botanic Garden and Research Institute,  
Thiruvananthapuram**

**Training Code:** [TBGRI – 01]

<b>Title</b>	: <i>Biodiversity Database Organization and Management</i>
<b>Date</b> (from ___ to ___)	: 26 <sup>th</sup> -28 <sup>th</sup> August 2009
<b>Duration</b> (in number of days)	: 3 days
<b>Subject Area</b> (As per List enclosed)	: <i>Bioinformatics trainings for technical personnel working for the BTISnet centres</i>

**OBJECTIVES:** To empower technical personnel working for the BTISnet Centres in database organization.

**CONTENTS:** Introduction to database and its applications, nature of biological data with special reference on biodiversity, inventory of biodiversity databases, formulation of data format for biodiversity database organization, methods of database organization, database organization in MS Access. Individual project work on database organization.

**METHODOLOGY** : Lectures, Demos, Hands on Sessions/ Workshop

**LEVEL OF PARTICIPANTS** : Technical personnel working for the BTISnet Centres

**PREREQUISITES** : Knowledge in biodiversity and computer operation

**NUMBER OF PARTICIPANTS** : 7

**EXPECTED DATE OF ANNOUNCEMENT** : Last week of May, 2009

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

**Training Code:** [TBGRI – 02]

<b>Title</b>	: <i>Statistical analysis of biological data using computational tools</i>
<b>Date</b> (from ___ to ___)	: <i>12-16 October, 2009</i>
<b>Duration</b> (in number of days)	: <i>5 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Training</i>

**OBJECTIVES:** Empowering the researchers for statistical analyses of their data using 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 the available software.

**METHODOLOGY** : Lectures, Demos, Hands on Sessions/ Workshop

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

**PREREQUISITES** : Knowledge in computer operation

**NUMBER OF PARTICIPANTS** : 10

**EXPECTED DATE OF ANNOUNCEMENT** : Second week of August, 2009

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

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	Rs. 2500/-
SAARC	Rs. 1000/-	Rs. 3500/-
Other Countries	Rs. 10000/-	Rs. 25000/-

**Training Code:** [TBGRI – 03]

<b>Title</b>	: <i>Bioinformatics tools for sequence analysis, molecular interaction and visualization and phylogenetic studies</i>
<b>Date</b> (from ___ to ___)	: 18 - 22 January, 2010
<b>Duration</b> (in number of days)	: 5 days
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** To empower the teachers and research students for using the Bioinformatics methods and tools

**CONTENTS:** Sequence analysis using the tools Clustal W2 and T-Coffee; Sequence similarity and homology analysis using the tools BLAST and FASTA; Molecular visualization using RasMol, Docking studies using ArgusLab and Autodock; Phylogenetic studies using PHYLIP.

**METHODOLOGY** : Lectures, Demos, Hands on Sessions/ Workshop

**LEVEL OF PARTICIPANTS** : Teachers and Research students

**PREREQUISITES** : Knowledge in biology and computer operation

**NUMBER OF PARTICIPANTS** : 15

**EXPECTED DATE OF ANNOUNCEMENT** : Second week of October, 2009

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

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	Rs. 2500/-
SAARC	Rs. 1000/-	Rs. 3500/-
Other Countries	Rs. 10000/-	Rs. 25000/-

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Web –Address :	www.tbgri.in and www.bioinfotbgri.org



**Vidyasagar University, Midnapur****Training Code:** [VU – 01]

<b>Title</b>	: <i>Advance biology &amp; bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>18 to 25<sup>th</sup> August, 2009</i>
<b>Duration</b> (in number of days)	: <i>8 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>General Bioinformatics Trainings</i>

**OBJECTIVES:** This course is aimed at making the teachers aware about this newly emerging topic. They would learn about different aspects of bioinformatics, which is very much essential for future studies and research.

**CONTENTS:** Molecular biology, Basic concepts of Bioinformatics, Importance of string/graph/algorithms; sequence comparison and database search, fragment assembly of DNA, physical mapping of DNA; phylogenetic trees and prediction of structures.

**METHODOLOGY** : Lectures, Demos and Hands on session

**LEVEL OF PARTICIPANTS** : College and University teachers

**PREREQUISITES** : Basic concept on computer

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : May, 2009

**Boarding & lodging arrangements etc.** : Available University guest house

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 500/-	Rs. 1200/-

**Training Code:** [VU – 02]

<b>Title</b>	: <i>Genome &amp; Proteome</i>
<b>Date</b> (from ___ to ___)	: <i>9 - 11<sup>th</sup> November, 2009</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Genome &amp; Proteome analysis</i>

**OBJECTIVES:** This course has been designed for the PG student / research scholars / 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:** 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, prediction of protein structure.

**METHODOLOGY** : Lectures, Demos and Hands on session

**LEVEL OF PARTICIPANTS** : PG students / Research Scholar / Teacher

**PREREQUISITES** : Basic concept on computer

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : September, 2009

**Boarding & lodging arrangements etc.** : Available University guest house

REGISTRATION FEE	Without Accommodation	With Accommodation
India	Rs. 200/-	Rs. 500/-

**Training Code:** [VU – 03]

<b>Title</b>	: <i>Structural Bioinformatics</i>
<b>Date</b> (from ___ to ___)	: <i>10 – 12<sup>th</sup> January, 2010</i>
<b>Duration</b> (in number of days)	: <i>3 days</i>
<b>Subject Area</b> (As per List enclosed)	: <i>Computational &amp; Structural Bioinformatics</i>

**OBJECTIVES:** The course is basically aimed to give a brief overview about the structural aspects of Bioinformatics to UG 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 and Hands on session

**LEVEL OF PARTICIPANTS** : UG students

**PREREQUISITES** : Basic concept on computer

**NUMBER OF PARTICIPANTS** : 20

**EXPECTED DATE OF ANNOUNCEMENT** : December, 2009

**Boarding & lodging arrangements etc.** : Available University guest house

<b>REGISTRATION FEE</b>	<b>Without Accommodation</b>	<b>With Accommodation</b>
India	Rs. 200/-	Rs. 500/-

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**NOMINATION FORM FOR TRAINING**

Course Code :  
Applicant's Name :  
Designation :  
Registration No. (If allotted) :  
Name of Organization/ Department :  
Category :  
Official Address :  
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 Coordinator 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 coordinator for any requirements of course fee (if any), accommodation arrangements, etc.