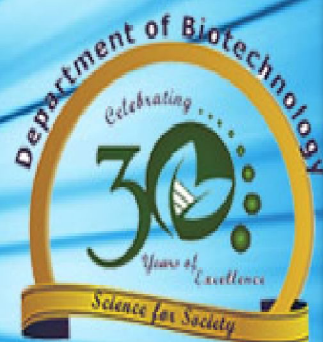




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BIOINFORMATICS

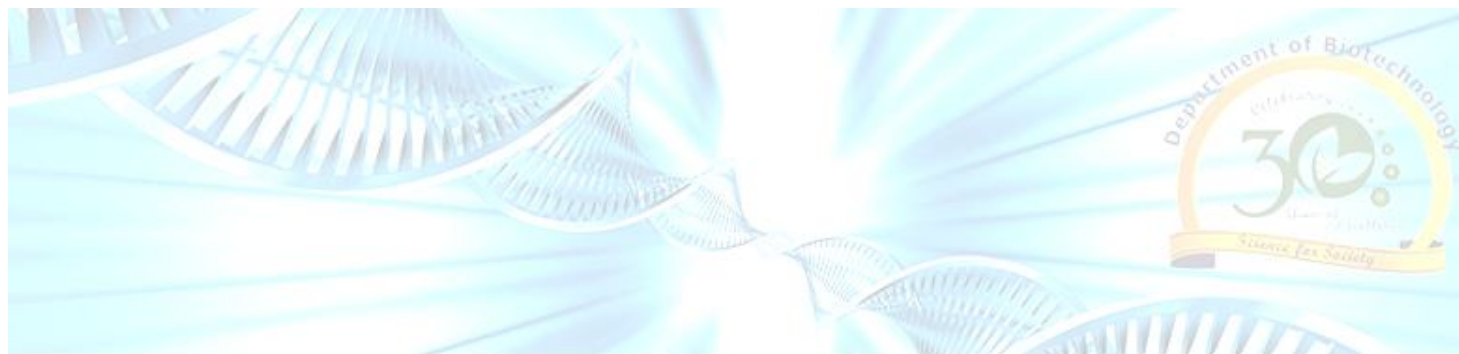
TRAINING CALENDAR

2016-17

Department of Biotechnology

Ministry of Science & Technology

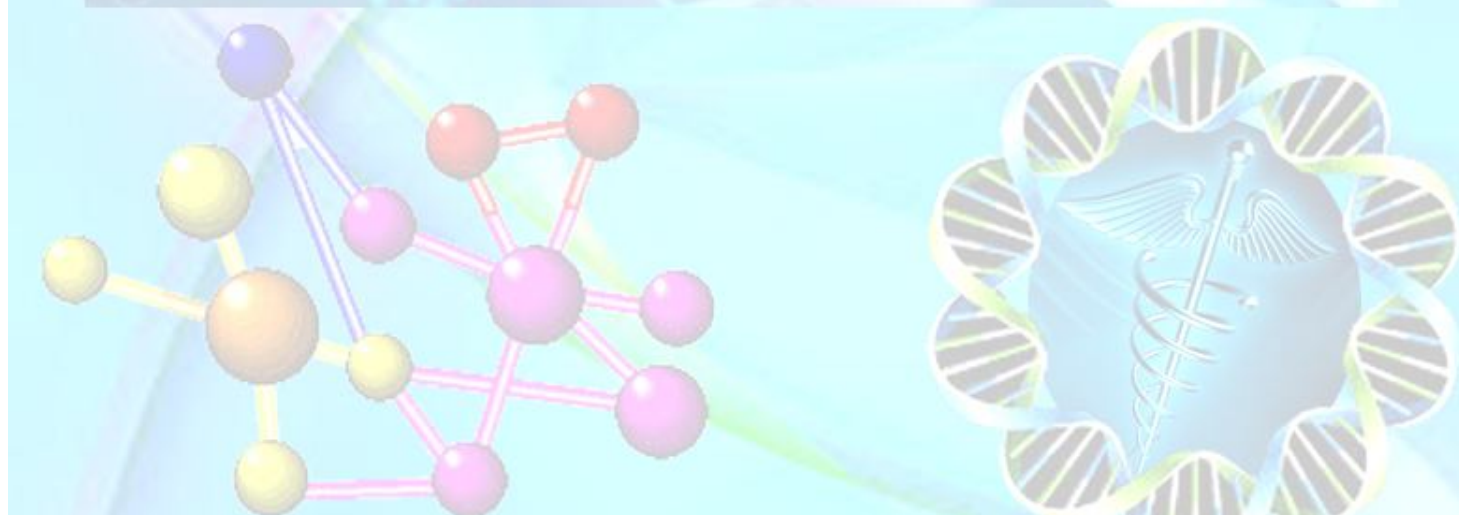
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CONTENTS

Foreword

Preface

APPENDICES

1.	Bioinformatics Centres under BTISNet Programme	1-23
2.	List of Training/ Symposia/ Workshops	24-27
3.	Training Programme:- Centre-wise Details	28-99
4.	List of E-mail and Web Addresses	100-107
5.	Nomination Form	108
6.	Calendar at a Glance	109-111

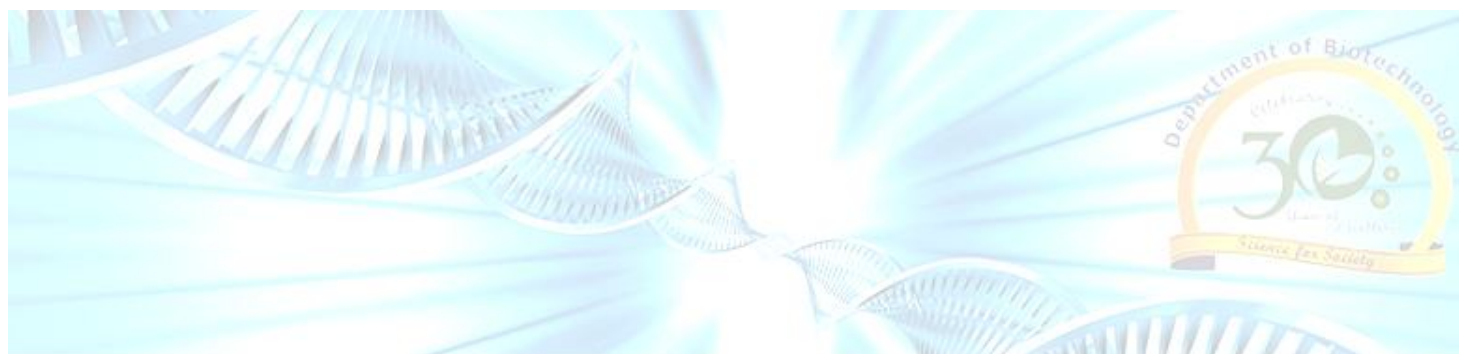
PREFACE

The Biotechnology Information System Network (BTISnet) of the Department of Biotechnology is spread across the country with more than 170 institutions. The network centres are in various levels which include Centres of Excellence, Distributed Information Centres, Distributed Information Sub Centres and Bioinformatics Infrastructure Facilities for Biology Teaching through Bioinformatics (BIF-BTBI). The network also covers Supercomputer facilities for big data analytics, Interactive Graphics Facility, M.Sc. & M. Tech. in Bioinformatics, Computational and System Biology. Large number of R&D projects in Bioinformatics is also being supported through this programme. All these activities are being coordinated by the Apex BTIC which is located in the DBT head quarter.

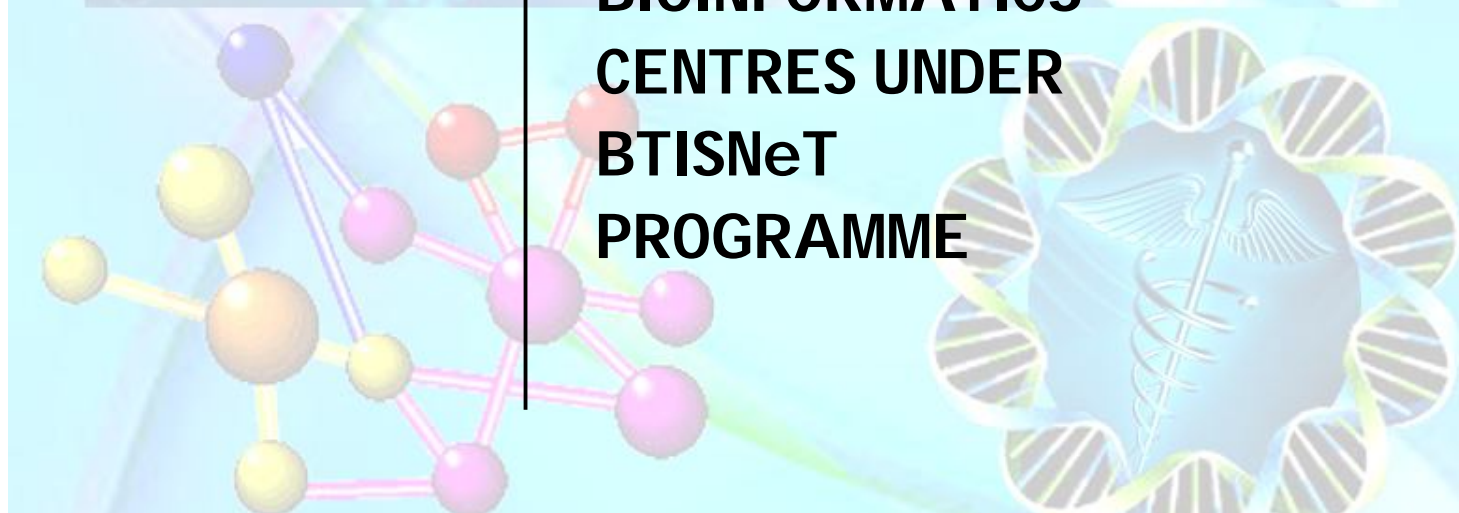
The BTISnet centers are conducting short term trainings/workshops for the benefit of Research community. During the year 2016-17, Fifty two such programs are envisaged in nine different subject areas. The readers can identify their interest of training programs through the subject area which are listed under the “List of Trainings/ Workshops”. For availing these trainings, one can approach the institutions directly as per the format given. Some Centres may also be advertising it in the Newspapers as well as on their websites. A list showing “Calendar at a Glance” is also appended as part of this publication for displaying it on Notice Boards.

The electronic version of the Training Calendar can be accessed at www.btisnet.gov.in/calendar.htm. I am confident that the training calendar will be helpful for identification of suitable trainings by the Students, Teachers, and Researchers. Suggestions and comments are most welcome and to be sent to madhan@dbt.nic.in

Dr. T. Madhan Mohan
Adviser
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**BIOINFORMATICS
CENTRES UNDER
BTISNeT
PROGRAMME**



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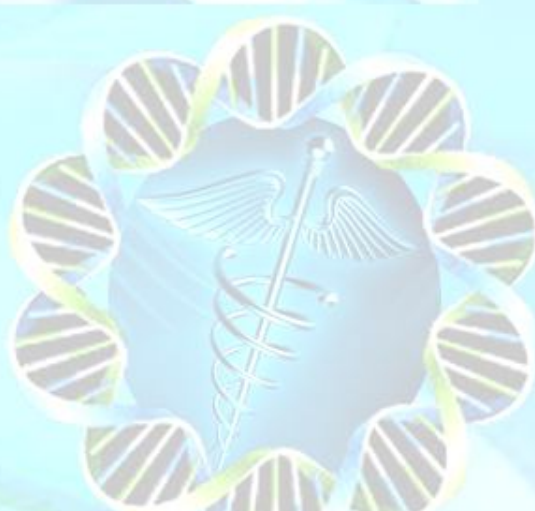
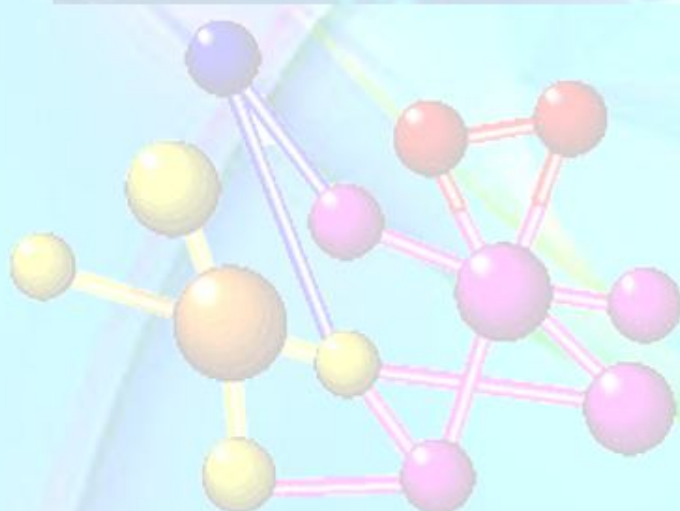
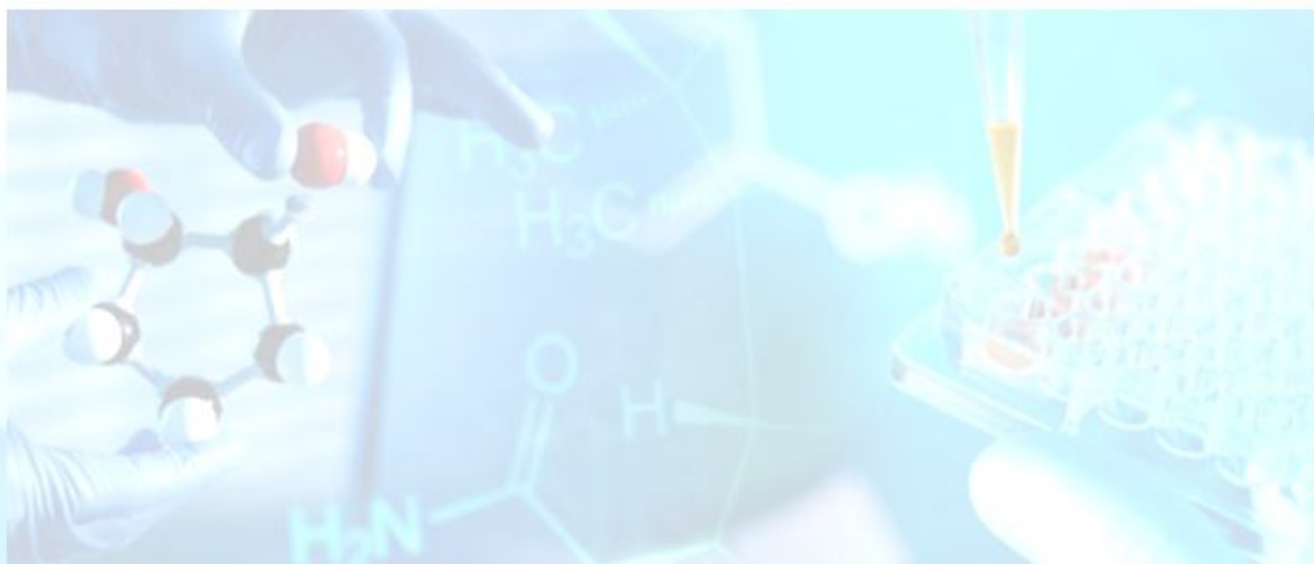
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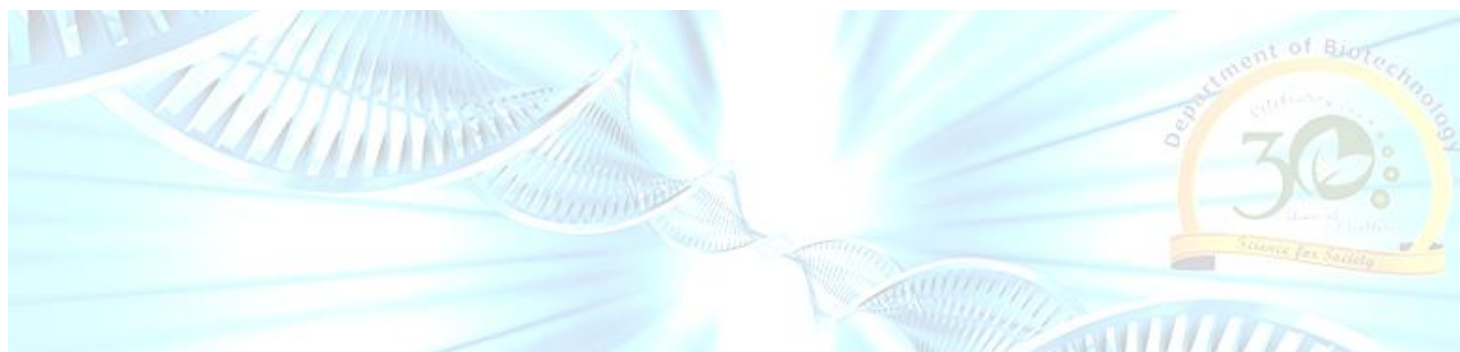
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**LIST OF
TRAININGS/ SYMPOSIA/
WORKSHOP**

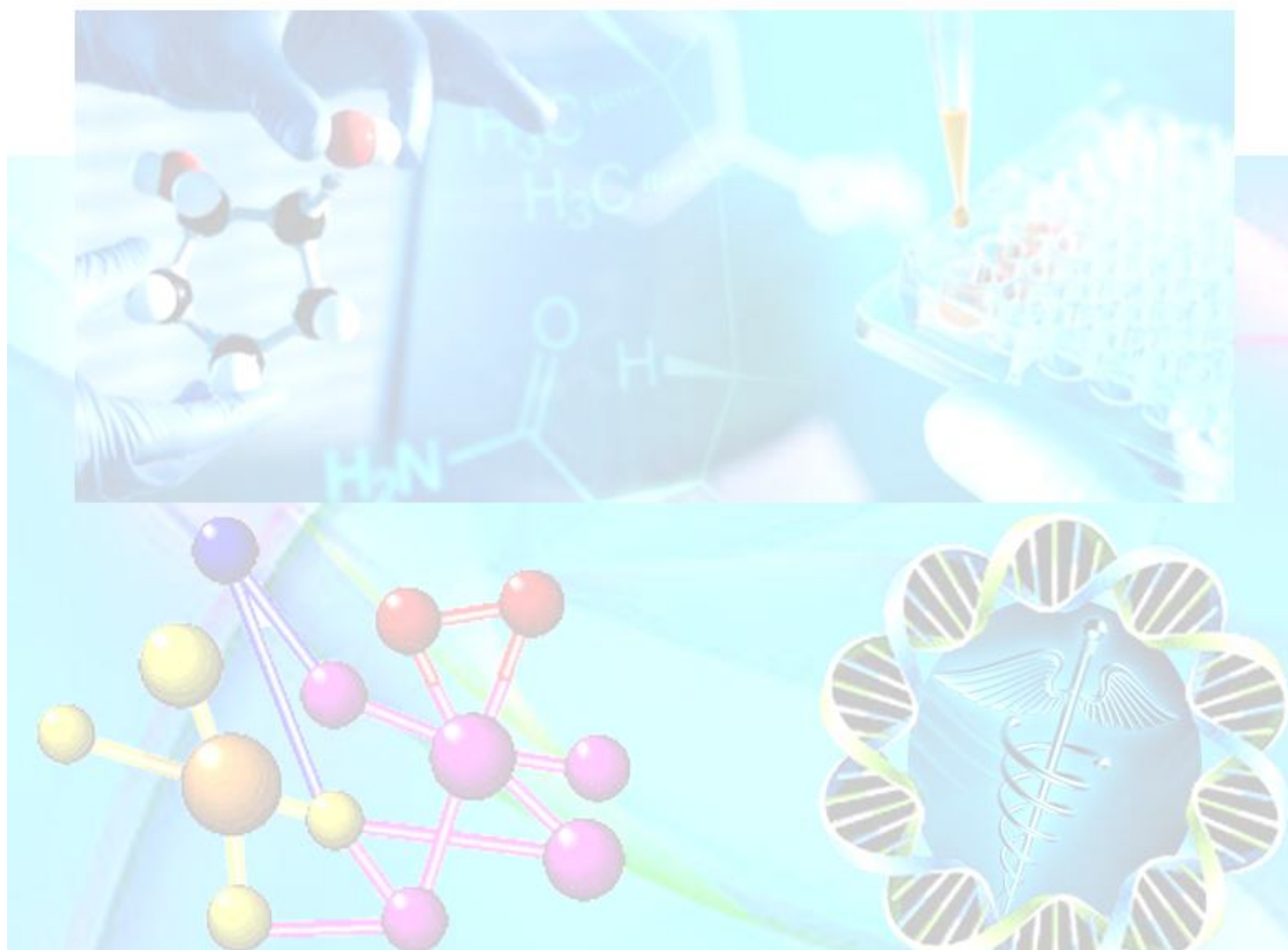
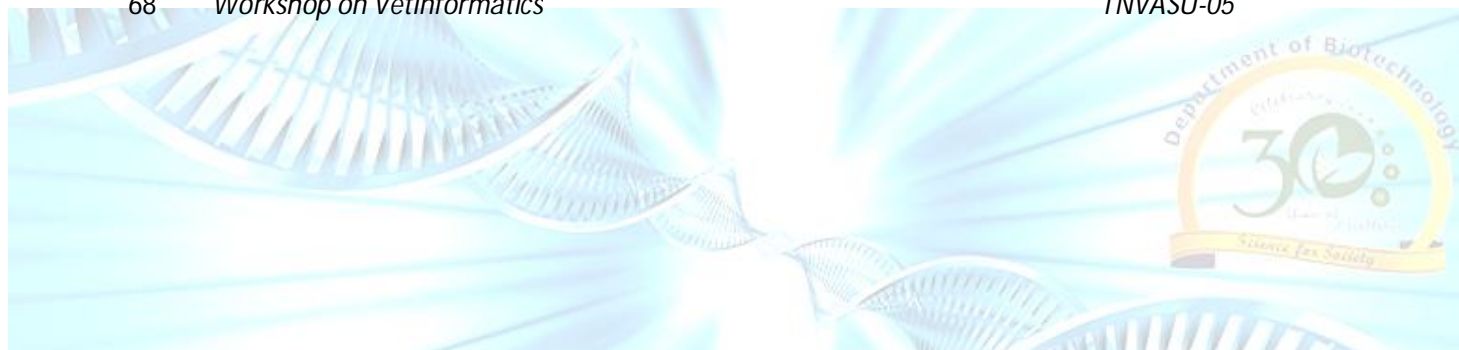
LIST OF TRAININGS/ SYMPOSIAS/ WORKSHOPS

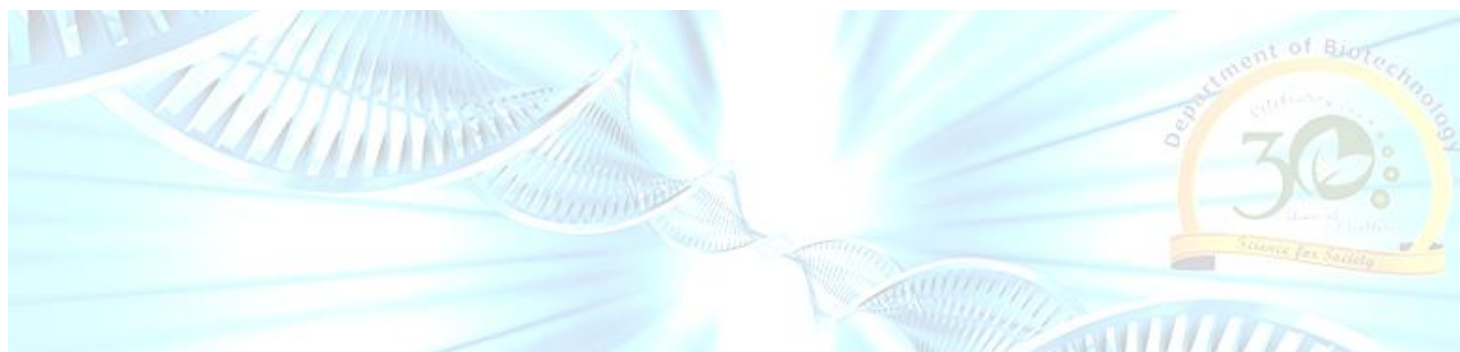
Sl. No.	Training/ Workshop	Code No.	Page No.
I	KNOWLEDGE DISCOVERY FROM DATA (KDD)		
1	Workshop on Information Retrieval System in PG Research	TNVASU-03	
II	COMPUTATIONAL & STRUCTURAL BIOINFORMATICS		
2	Workshop and Training on Sequence Analysis and Molecular Simulations	AUC-01	
3	Biomolecular Interactions and Dynamics	CVSAAU-02	
4	Training Programme on Computer Aided Drug Designing: Basics to Molecular Dynamics Simulation - 2	BIFAUS-01	
5	In silico approaches in Bioinformatics	BHU-02	
6	National workshop on "Protein Structure prediction and Function Analysis"	BV-01	
7	Cyanobacterial Bioinformatics	BDU-01	
8	Recent Trends in Bioinformatics and Computational Biology: An Introduction	BP-01	
9	Emerging Trends in Bioinformatics: Big Data Analysis and Drug discovery	BP-02	
10	Discovering Biomarkers of Diseases: A Bioinformatics Approach	BP-03	
11	Gene Mining Techniques	DMSC-01	
12	Advanced trends in Molecular docking	DMSC-02	
13	7 th Workshop on Bioinformatics and Molecular Modeling in Drug Design	ACBR-01	
14	Molecular Modeling and Drug Designing	YSPUHF-02	
15	Advance Workshop on Application of Computational & Structural Bioinformatics in Biological Research	DIBRUNIV-01	
16	Computational and Structural Bioinformatics	BIFGU-01	
17	Computational & Structural Bioinformatics	GJUST-01	
18	Bioinformatics with respect to Environment & Biodiversity	GJUST-02	
19	Gene Mining from Big Data Biotechnology (BDB)	GJUST-03	
20	Biological Databases & Knowledge Discovery (BDKD)	IBSD-01	
21	8 th Bioinformatics Seminar-cum-Hands-on Training 2016 on "Protein Sequence to Function Through Structural Bioinformatics"	JHU-01	
22	Next Generation Sequencing – Concepts and Data Analysis	MZU-02	
23	Computational R-Bioinformatics and PERL Programming	SSCS&T-01	
24	Molecular docking and dynamics simulation analyses	LU-01	
25	Basic Bioinformatics tools and techniques	LU-02	
26	Basic Bioinformatics Tools & Techniques in structural biology	TEZU-01	
III	NETWORK PATHWAYS & SYSTEMS BIOLOGY		
27	Computational and System biology	DMSC-03	
28	Systems approach to small networks	TEZU-02	
IV	GENOME AND PROTEOME ANALYSIS		
29	Application of Bioinformatics in Life Sciences Research	CVSAAU-01	
30	Workshop on Phylogenetic Analysis Using Next Generation Sequence Tools	BIFAUS-02	
31	Applications of Bioinformatics in Agricultural and Medical Sciences	BHU-01	
32	Introduction to modern computational approaches for high-throughput	ICGEB-01	

	<i>data analysis</i>	
33	<i>Analysis of Genetic Variations in Cancer</i>	MZU-01
34	<i>Application of Bioinformatics in Computational and Structural Biology</i>	PCC-01
35	<i>Plant genomic analysis</i>	SKWC-01
36	<i>Workshop on R programming for Genomics Application</i>	SACS-02
37	<i>Bioinformatics in Genomics & Proteomics Researches</i>	SSCS&T-02
38	<i>Workshop on Application of Bioinformatics in Genome Analysis</i>	TNVASU-01
39	<i>Workshop on Application of Bioinformatics in Proteome Analysis</i>	TNVASU-02
40	<i>Workshop on Computer Aided Drug Designing</i>	TNVASU-04
41	<i>Advances in Genome Informatics</i>	TU-01
42	<i>Introduction to Next Generation Sequencing</i>	KALYANI-01
V	BIOINFORMATICS WITH RESPECT TO MEDICAL SCIENCES	
43	<i>Workshop cum Training Program on "Computer Aided Drug Design and Molecular Docking"</i>	SGBAU-01
VI	BIOINFORMATICS WITH RESPECT TO AGRICULTURE/ PLANT SCIENCES	
44	<i>Addressing the complexity of Stress Biology through Hi-throughput Omics data analysis using Bioinformatics Tools</i>	GBPUAT-01
45	<i>Comparative Plant Genomics</i>	NIPGR-01
46	<i>Bioinformatics in Agriculture</i>	SKWC-03
47	<i>Challenges in Bioinformatics, Genomics & NGS</i>	UOJJ-01
VII	BIOINFORMATICS WITH RESPECT TO ENVIRONMENT & BIODIVERSITY	
48	<i>Study of molecular biodiversity through bioinformatics</i>	DMSC-04
49	<i>Bioinformatics with respect to Biodiversity</i>	BIFGU-02
50	<i>Workshop on "Applications of Bioinformatics tools in Molecular Taxonomic studies"</i>	LDC-01
51	<i>Bioinformatics in Microbial diversity</i>	MU-01
52	<i>Methods in Molecular Phylogeny</i>	MZU-03
53	<i>A Soft Computing Approach in Molecular Phylogenetics: Analysis and Reuse of Public domain data</i>	NEHU-01
54	<i>Bioinformatics in Biodiversity</i>	SKWC-02
55	<i>Training on Microbial Diversity and Environment-a Bioinformatics Perspective</i>	UNB-01
VIII	BIOINFORMATICS WITH RESPECT TO ANIMAL / AQUA SCIENCES	
56	<i>Molecular phylogeny and systematic analysis of indigenous fishes of Manipur</i>	DMSC-05
57	<i>Bioinformatics and its application in marine biotechnology</i>	KVAFSU – 01
IX	BIOINFORMATICS AND BIOSTATISTICS	
58	<i>Workshop on Bioinformatics and Biostatistics</i>	SGBAU-02
X	GENERAL BIOINFORMATICS TRAININGS	
59	<i>Workshop on Key Issues in Commercialisation of Biotechnology</i>	BCIL-01
60	<i>Bioinformatics and its Application in Plants Sciences</i>	YSPUHF-01
61	<i>National Workshop on "Applications of Bioinformatics in Biology Teaching & Research"</i>	HCC-01
62	<i>Workshop on, "Basics of Bioinformatics for UG Life Science students"</i>	HCC-02
63	<i>National Conference on "Molecular Modelling and Drug Designing Approach</i>	HCC-03
64	<i>"Basic Concepts in Bioinformatics for Beginners"</i>	IVRI-01

65 "Computational Approaches in Biotechnology for Beginners"
66 Workshop on Linux and Perl programming for Biologists
67 Sixth National Seminar on Bioinformatics
68 Workshop on Vetinformatics

IVRI-02
SACS-01
SVIMS-01
TNVASU-05





ANNA UNIVERSITY, CHENNAI

Training Code: [AUC-01]

Title	:	<i>Workshop and Training on Sequence Analysis and Molecular Simulations</i>
Date	:	<i>20th – 23rd December, 2016</i>
Duration	:	<i>4 Days</i>
Subject Area	:	<i>Computational & Structural Bioinformatics - Molecular Simulations</i>
OBJECTIVES: To give training in sequence analysis and molecular simulations to college teachers and researchers.		
CONTENTS: Biological Sequence Analysis, Molecular Dynamics and Simulations and Docking.		
METHODOLOGY	:	Lectures, Demos, Hands on Session
LEVEL OF PARTICIPANTS	:	Faculties, Post Doctoral Candidates, Research Scholars and Interested persons from companies.
NUMBER OF PARTICIPANTS	:	25
EXPECTED DATE OF ANNOUNCEMENT	:	1 st Week of October, 2016

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 750.00	Nil

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COLLEGE OF VETERINARY SCIENCE ASSAM AGRICULTURAL UNIVERSITY, GUWAHATI

Training Code: [CVSAAU-01]

Title	: <i>Application of Bioinformatics in Life Sciences Research</i>
Date	: <i>8th – 11th November, 2016</i>
Duration	: <i>4 Days</i>
Subject Area	: <i>Genome and Proteome Analysis</i>

OBJECTIVES: To introduce with basic bioinformatics tools and methods to help teachers, lecturers and scholars in order to conduct advanced research in genomics and proteomics.

CONTENTS: Sequence Retrieval from Biological Databases, Sequence Analysis, Introduction to BLAST, Sequence Alignment Methods, ClustalW, Phylogenetic Analysis, Bootstrapping Methods using Phylip, MEGA, etc. PDB, Molecular Visualization, Protein Structure Prediction by Swiss Model Server, ExPASy Web Servers' resources etc. Hands-on practices on Protein Structure Prediction Methods Comparative/Homology Modeling by Modeller.

METHODOLOGY	: Lectures, Demonstrations and Hands-on Sessions
LEVEL OF PARTICIPANTS	: Teachers, Scientists and PG students of Biological Sciences
PREREQUISITES	: Basic knowledge of biology and computer applications
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: 25 th October 2016
BOARDING & LODGING ARRANGEMENTS	Limited accommodation may be arranged in the university guesthouse against payment.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 800.00	₹. 1200.00
SAARC	USD 20.00	USD 50.00

Training Code: [CVSAAU -02]

Title	: <i>Biomolecular Interactions and Dynamics</i>
Date	: 27 th –30 th December, 2016
Duration	: 4 Days
Subject Area	: <i>Computational & Structural Bioinformatics</i>
<p>OBJECTIVES: To introduce with advanced structural bioinformatics tools and methods to help research scholars in order to conduct advanced research in structural biology.</p> <p>CONTENTS: Visualization and Manipulation of Protein Structures, Basics of Protein Structure Modeling—Comparative modeling by MODELLER, Structure validation & refinement. Drawing Editing Small Molecular Structures, Energy Minimization & Geometry Optimization of Chemical Structures (Small and macromolecules). Concepts of Molecular Docking, Introduction to Molecular Dynamics Simulation, Demo on GROMACS.</p>	
METHODOLOGY	: Lectures, Demonstrations and Hands-on Sessions
LEVEL OF PARTICIPANTS	: Teachers, Scientists and PG students of Biological Sciences.
PREREQUISITES	: Basic knowledge of biology and computer applications
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: 15 th December, 2016
BOARDING & LODGING ARRANGEMENTS	Limited accommodation may be arranged in the university guesthouse against payment

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 800.00	₹. 1200.00
SAARC	USD 20.00	USD 50.00

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ASSAM UNIVERSITY, SILCHAR

Training Code: [BIFAUS-07]

Title	:	Training Programme on Computer Aided Drug Designing: Basics to Molecular Dynamics Simulation - 2
Date	:	1 st – 7 th September, 2016
Duration	:	7 Days
Subject Area	:	Computational & Structural Bioinformatics
OBJECTIVES: To create awareness on Computer Aided Drug Designing. Train and skill manpower in the field of Computer Aided Drug Designing. CONTENTS: Overview of Computer Aided Drug Designing, Molecular Docking, Molecular Mechanics and Molecular Dynamics simulation.		
METHODOLOGY	:	Lectures and Hands on Training
LEVEL OF PARTICIPANTS	:	Research Scholars, Scientists and Faculty Members
PREREQUISITES	:	Knowledge of Bioinformatics and Basics of Drug Designing
NUMBER OF PARTICIPANTS	:	20
EXPECTED DATE OF ANNOUNCEMENT	:	2 nd week of July 2016
BOARDING & LODGING ARRANGEMENTS		May be arranged for outstation candidates on payment basis and prior information

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1000.00	₹. 1000 + Actual charges of accommodation

Training Code: [BIFAUS-02]

Title	: <i>Workshop on Phylogenetic Analysis Using Next Generation Sequence Tools</i>
Date	: 3 rd – 5 th January, 2017
Duration	: 3 Days
Subject Area	: <i>Genome and Proteome Analysis</i>
OBJECTIVES: To create awareness on Sequence based phylogenetic analysis. CONTENTS: Overview of sequence analysis, Next Generation Sequence Tools, Phylogenetic tree etc.	
METHODOLOGY	: Lectures and Hands on Training
LEVEL OF PARTICIPANTS	: Research Scholars, PG students and Faculty Members.
PREREQUISITES	: Basic Knowledge of Bioinformatics
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: 2 nd week of December 2016
BOARDING & LODGING ARRANGEMENTS	May be arranged for outstation candidates on payment basis and prior information

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 600.00	₹. 600 + Actual charges of accommodation

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BANARAS HINDU UNIVERSITY, VARANASI

Training Code: [BHU-01]

Title	:	<i>Applications of Bioinformatics in Agricultural and Medical Sciences</i>
Date	:	<i>September, 2016</i>
Duration	:	<i>3 Days</i>
Subject Area	:	<i>Genomics and Proteomics</i>
OBJECTIVES: To create awareness among the researchers in various aspects of Bioinformatics application in biological science. CONTENTS: <i>In silico</i> techniques in biological sciences.		
METHODOLOGY	:	Lectures, Demos and Hands on Session
LEVEL OF PARTICIPANTS	:	Teachers, Scientists and Research students.
PREREQUISITES	:	Actively engaged in Life science Research
NUMBER OF PARTICIPANTS	:	15-20
EXPECTED DATE OF ANNOUNCEMENT	:	1 st Week of August, 2016

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,000.00	-

Training Code: [BHU-02]

Title	:	<i>In silico approaches in Bioinformatics</i>
Date	:	<i>January, 2017</i>
Duration	:	<i>One week</i>
Subject Area	:	<i>Sequence Analysis, Molecular Modeling, Docking</i>
OBJECTIVES: To provide comprehensive training to research scientists in the field of structural bioinformatics.		
CONTENTS: Sequence analysis, homology modeling, active site identification and drug designing.		
METHODOLOGY	:	Lectures, Demos and Hands on Session
LEVEL OF PARTICIPANTS	:	Teachers, Scientists and Research students.
PREREQUISITES	:	Actively engaged in Life science Research
NUMBER OF PARTICIPANTS	:	15-20
EXPECTED DATE OF ANNOUNCEMENT	:	1 st Week of December, 2016

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,000.00	-

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BANASTHALI VIDYAPITH, BANASTHALI, RAJASTHAN

Training Code: [BV-01]

Title	: National workshop on "Protein Structure prediction and Function Analysis"
Date	: 11 th – 13 th January, 2017
Duration	: 3 Days
Subject Area	: Computational Biology and Structural Bioinformatics
<p>OBJECTIVES: The protein structure prediction has become a challenging task in the post genomic era with respect to the small number of protein structures being solved experimentally. The Participants will be benefitted by learning protein structure prediction, validation and functional annotation in this workshop. The final day of this workshop will be dedicated for mini symposium where participants can present their research in the form of posters.</p> <p>CONTENTS: 1. Protein Structure Prediction: Lectures and hands on sessions on recent developments on protein structure prediction, energy minimization and geometry optimization of the modeled protein.</p> <p>2. Protein Structure Function Relationship: Modeling protein-ligand, protein-protein interactions.</p>	
METHODOLOGY	: Lectures, Demos (hands on session), mini symposium
LEVEL OF PARTICIPANTS	: M.Sc., M.Tech. , PhD scholars, faculty and scientists.
NUMBER OF PARTICIPANTS	: Upto 40
EXPECTED DATE OF ANNOUNCEMENT	: September, 2016
BOARDING & LODGING ARRANGEMENTS	: Boarding will be arranged in the university guest house.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,000.00	₹. 1,000.00 + Accommodation Charges as per actuals
SAARC	₹. 1,500.00	₹. 1,500.00 + Accommodation Charges as per actuals
Other Countries	₹. 2,000.00	₹. 2,000.00 + Accommodation Charges as per actuals

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BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI

Training Code: [BDUV-01]

Title	: <i>Cyanobacterial Bioinformatics</i>
Date	: <i>6th March, 2017</i>
Duration	: <i>2 Days</i>
Subject Area	: <i>Gene Mining from Big Data Biotechnology Computational & Structural Bioinformatics Genome and Proteome Analysis</i>
OBJECTIVES: To train scientists / researchers working in the area of Cyanobacterial Bioinformatics.	
CONTENTS: Biological Databases, Working with Whole Genome Database, Protein and Nucleic acid sequence retrieving from databases, multiple sequence alignment, computing the Phylogeny.	
METHODOLOGY	: Workshop (Inclusive of lectures, demos & hands on session)
LEVEL OF PARTICIPANTS	: Scientists/ Researchers.
NUMBER OF PARTICIPANTS	: 15
EXPECTED DATE OF ANNOUNCEMENT	: 9 th January, 2017

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,000.00	--

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BIOTECH CONSORTIUM INDIA LIMITED, NEW DELHI

Training Code: [BCIL-01]

Title	: <i>Workshop on Key Issues in Commercialisation of Biotechnology</i>
Date	: <i>4th November, 2016</i>
Duration	: <i>1 Day</i>
Subject Area	: <i>Technology Commercialisation, Intellectual Property Management, Regulatory, Biosafety</i>
<p>OBJECTIVES: To create awareness among representatives from research institutions, industry, academia, and students on relevant aspects including assessment of technologies, licensing, partnering and strategic alliances, IP management, market strategies, nurturing start-ups for investment readiness, approaches to successful team building, regulatory compliance etc.</p> <p>CONTENTS: Business opportunities and key issues concerning commercialization of biotechnology including technology evaluation, management of intellectual assets through patenting, regulatory requirements, biosafety issues, technology transfer processes, financing options under public-private-partnership and business opportunities in biotechnology.</p>	
METHODOLOGY	: Presentations by experts followed by panel discussions
LEVEL OF PARTICIPANTS	: Representatives from research institutions, industry, academicians, government departments and students.
PREREQUISITES	: Should be actively engaged in biotechnology research/development and commercialization
NUMBER OF PARTICIPANTS	: 70-100
EXPECTED DATE OF ANNOUNCEMENT	: 4 th November, 2016
BOARDING & LODGING ARRANGEMENTS	: To be arranged by the participants on their own.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹ 2,500.00 (Industry) ₹ 2,000.00 (Institutions) ₹ 1,000.00 (Students)	NA

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BIOTECH PARK IN BIOTECHNOLOGY CITY, LUCKNOW

Training Code: [BP-01]

Title	: <i>Recent Trends in Bioinformatics and Computational Biology: An Introduction</i>
Date	: 27 th – 29 th July, 2016
Duration	: 3 Days
Subject Area	: <i>Bioinformatics, Genomics, Proteomics Analysis & Computational & Structural Bioinformatics and RNAi Technology.</i>
<p>OBJECTIVES: To generate awareness and provide hands-on training on bioinformatics and its applications and acquaint with computational biology, systems biology, protein modeling and structure-based drug design techniques.</p> <p>CONTENTS: Introduction to bioinformatics, application of bioinformatics tools in genomic & proteomics studies, searching of biological databases and retrieval of biological sequences; biological sequence analysis, phylogenetic analysis, study of various file formats; molecular modeling methods, molecular visualization tools, molecular docking studies and structure-based drug designing.</p>	
METHODOLOGY	: Lectures, demonstrations and hands-on exercises.
LEVEL OF PARTICIPANTS	: Teachers/ scientists, research scholars, post graduate students in biological / chemical / medical / engineering disciplines.
PREREQUISITES	: Basic knowledge of biology and computer applications.
NUMBER OF PARTICIPANTS	: 30 (on first-come first-served basis)
BOARDING & LODGING ARRANGEMENTS	: NIL.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 2,500.00 (Includes lectures/presentations of resource persons on CD, workshop stationary, working lunch and tea)	

Training Code: [BP-02]

Title	:	<i>Emerging Trends in Bioinformatics: Big Data Analysis and Drug discovery</i>
Date	:	24 th – 26 th October, 2016
Duration	:	3 Days
Subject Area	:	<i>Bioinformatics, Computational & Structural Bioinformatics, Protein Modeling, Cheminformatics, Drug Designing, Biodynamics and Big Data Analysis</i>
<p>OBJECTIVES: To acquaint the participants with various tools and databases used in molecular modeling, systems biology, cheminformatics and structure-based drug design. The participants will also acquire hands-on training on recent advancements in big data, cheminformatics and drug designing.</p> <p>CONTENTS: Overview of cheminformatics, chemical databases, chemical file formats, information retrieval methods, 2D & 3D chemical structure sketching and visualization, small compound library designing, protein modeling, QSAR studies, receptor-ligand interaction, molecular docking, virtual screening, rational drug designing, MD simulations and big data analytics for drug discovery.</p>		
METHODOLOGY	:	Lectures, demonstrations and hands-on exercises.
LEVEL OF PARTICIPANTS	:	Teachers/ scientists, research scholars, post graduate students in biological / chemical / medical / engineering disciplines.
PREREQUISITES	:	Science graduates with knowledge of Computer applications.
NUMBER OF PARTICIPANTS	:	30 (on first-come first-served basis)
BOARDING & LODGING ARRANGEMENTS	:	NIL

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 2,500.00 (Includes lectures/presentations of resource persons on CD, workshop stationary, working lunch and tea.)	

Training Code: [BP-03]

Title	: <i>Discovering Biomarkers of Diseases: A Bioinformatics Approach</i>
Date	: 22 nd – 24 th February, 2017
Duration	: 3 Days
Subject Area	: <i>Bioinformatics, systems biology, computational biology, metabolic pathway analysis, in silico biomarker discovery</i>
OBJECTIVES: To acquaint the participants with computational trends to biomarker discovery using systems biology and metabolomics. The participants will also attain the hands-on experience on disease network analysis and tools for biomarker discovery, validation and implementation. CONTENTS: Overview of biomarkers, various approaches to biomarker discovery, tools and databases for biomarker discovery, computational biology, system biology, metabolic pathway analysis and investigation of disease pathway.	
METHODOLOGY	: Lectures, demonstrations and hands-on sessions.
LEVEL OF PARTICIPANTS	: Teachers/ Scientists, research scholars, post graduate students in biological / chemical / medical / engineering disciplines.
PREREQUISITES	: Science graduates with knowledge of Computer applications.
NUMBER OF PARTICIPANTS	: 30 (on first-come first-served basis)
BOARDING & LODGING ARRANGEMENTS	: NIL

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 2,500.00 (Includes lectures/presentations of resource persons on CD, workshop stationary, working lunch and tea.)	

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CENTRAL SERICULTURAL RESEARCH AND TRAINING INSTITUTE, MYSORE

Training Code: [CSRTI-01]

Title	: <i>Workshop on Bioinformatics and its Applications in Biological Research</i>
Date	: 8 th – 9 th September, 2016
Duration	: 2 Days
Subject Area	: <i>Bioinformatics with respect to Agriculture/Plant Sciences</i>
OBJECTIVES: To provide the exposure and practical training on bioinformatics computational tools and techniques among the research students and researchers. CONTENTS: Introduction and conceptual basis of Bioinformatics and its application in research, Exposure to online database, Computational Tools and Techniques, sequence analysis, protein structure prediction – Homology modeling and Structural Biology.	
METHODOLOGY	: Workshop: Lectures, Demos and Hands On.
LEVEL OF PARTICIPANTS	: UG & PG students and Research scholars.
PREREQUISITES	: Knowledge in biology and computer operation
NUMBER OF PARTICIPANTS	: 25
EXPECTED DATE OF ANNOUNCEMENT	: 1 st August, 2016
BOARDING & LODGING ARRANGEMENTS	: Arranged as per the participants requirement.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 500.00 (Students) ₹. 700.00 (Research Scholars)	NA

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D. M. COLLEGE OF SCIENCE, IMPHAL, MANIPUR

Training Code: [DMSC-01]

Title	:	<i>Gene Mining Techniques</i>
Date	:	<i>7th - 9th July, 2016</i>
Duration	:	<i>3 Days</i>
Subject Area	:	<i>Gene Mining from Big Data Biotechnology (BDB)</i>
OBJECTIVES: The objective of the training program is to introduce to the participants the basic concepts and techniques of Data Mining and develop skills of using recent data mining software for solving practical problems. CONTENTS: <ol style="list-style-type: none"> Applications and Trends in Data mining. Data mining in Bioinformatics. Data mining: Basic Concepts & Techniques. 		
METHODOLOGY	:	Lectures, Demonstrations and Hands-on Sessions
LEVEL OF PARTICIPANTS	:	B. Sc. & PG Students of Biological Sciences
PREREQUISITES	:	Basic knowledge of Biology and Computer applications
NUMBER OF PARTICIPANTS	:	15
EXPECTED DATE OF ANNOUNCEMENT	:	17 th June, 2016
BOARDING & LODGING ARRANGEMENTS	:	Self arrangement/on payment and first come first served basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1500.00	₹. 3000.00

Training Code: [DMSC-02]

Title	: <i>Advanced trends in Molecular docking</i>
Date	: <i>4th - 6th August, 2016</i>
Duration	: <i>3 Days</i>
Subject Area	: <i>Computational and Structural Bioinformatics</i>
OBJECTIVES: The goal of molecular docking approach is to model the interaction between a small molecule and a protein at the atomic level, which allow to characterize the behavior of small molecules in the binding site of target proteins as well as to elucidate fundamental biochemical processes. CONTENTS: <ol style="list-style-type: none"> Introduction of Molecular docking. Methods for docking and Drug designing. Molecular docking and dynamic simulation. 	
METHODOLOGY	: Lectures, Demos, Hands on Sessions
LEVEL OF PARTICIPANTS	: UG and PG Students, Faculty members
PREREQUISITES	: Knowledge of Biology and computer
NUMBER OF PARTICIPANTS	: 15
EXPECTED DATE OF ANNOUNCEMENT	: 20 th July, 2016
BOARDING & LODGING ARRANGEMENTS	Self arrangement/on payment and first come first served basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1500.00	₹. 3000.00

Training Code: [DMSC-03]

Title	: <i>Computational and System biology</i>
Date	: 5 th -8 th October, 2016
Duration	: 4 Days
Subject Area	: <i>Network Pathways and Systems Biology</i>
OBJECTIVES: The goal of the Computational and Systems Biology Program is to gain a quantitative understanding of the dynamic interplay of molecular agents within a cell. To understand complex biological systems requires the integration of experimental and computational research — in other words, a systems biology approach. CONTENTS: Introducing Computational Systems Biology, Databases for Systems Biology, Introduction to Computational Models of Biochemical Reaction Networks.	
METHODOLOGY	: Lectures, Demos, Hands on Session
LEVEL OF PARTICIPANTS	: UG and PG Students
PREREQUISITES	: Knowledge of Biology and computer
NUMBER OF PARTICIPANTS	: 15
EXPECTED DATE OF ANNOUNCEMENT	: 20 th August, 2016
BOARDING & LODGING ARRANGEMENTS	Participants have to arrange their own accommodation.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1500.00	₹. 3000.00

Training Code: [DMSC-04]

Title	:	<i>Study of molecular biodiversity through bioinformatics</i>
Date	:	<i>3rd - 5th November, 2016</i>
Duration	:	<i>3 Days</i>
Subject Area	:	<i>Bioinformatics with respect to Environment and Biodiversity</i>
OBJECTIVES: To knowledge of Bioinformatics, its applications in Biodiversity and molecular aspects. CONTENTS: i. Introduction to Bioinformatics software. ii. Molecular Biodiversity. iii. Biodiversity databases.		
METHODOLOGY	:	Lectures, demonstrations and hands on sessions
LEVEL OF PARTICIPANTS	:	UG & PG students
PREREQUISITES	:	Knowledge of computers
NUMBER OF PARTICIPANTS	:	15
EXPECTED DATE OF ANNOUNCEMENT	:	10 th October, 2016
BOARDING & LODGING ARRANGEMENTS		Participants have to arrange their own accommodation.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1500.00	₹. 3000.00

Training Code: [DMSC-05]

Title	: <i>Molecular phylogeny and systematic analysis of indigenous fishes of Manipur</i>
Date	: 2 nd - 4 th December, 2016
Duration	: 3 Days
Subject Area	: <i>Bioinformatics with respect to Aqua Sciences</i>
OBJECTIVES: To provide theoretical and practical knowledge of molecular phylogeny and its systematic analysis. CONTENTS: <ol style="list-style-type: none"> Introduction to phylogeny knowledge. DNA isolation. Sequence Analysis. Phylogenetic reconstruction with maximum parsimony, Bayesian Analysis, Maximum Likelihood and Neighbor Joining methods using software like MEGA. 	
METHODOLOGY	: Lectures, demonstration and hands on session
LEVEL OF PARTICIPANTS	: U.G. & P.G. students
PREREQUISITES	: Knowledge of molecular biology
NUMBER OF PARTICIPANTS	: 15
EXPECTED DATE OF ANNOUNCEMENT	: 10 th November, 2016
BOARDING & LODGING ARRANGEMENTS	Participants have to arrange their own accommodation.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	-	-

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**DR. B. R. AMBEDKAR CENTER FOR BIOMEDICAL RESEARCH,
UNIVERSITY OF DELHI, NORTH CAMPUS, DELHI**

Training Code: [ACBR-01]

Title	: 7 th Workshop on Bioinformatics and Molecular Modeling in Drug Design
Date	: December, 2016 / January, 2017
Duration	: 3 Days
Subject Area	: Computational & Structural Bioinformatics
<p>OBJECTIVES: The meeting will be focusing on the advancement and exploration of the knowledge about modern trends in Biomedical Sciences viz. Computational Strategies, use of computers and informatics in understanding gene annotations, bio-molecular interactions and Rational Drug Design.</p> <p>CONTENTS: Various bioinformatics and molecular modeling methods such as basics of bioinformatics tools, gene annotations, protein modeling, protein-protein interaction networks, pathway analysis, energy minimizations, molecular dynamics, docking methods and structure- based approaches will be discussed in detail.</p>	
METHODOLOGY	: Workshop will be divided in Morning and Evening sessions. Morning session will have lectures from eminent Scientists on topics mentioned above and evening session will have demos and hands on training session organized by faculty members of ACBR and other Departments of the University and invited speakers.
LEVEL OF PARTICIPANTS	: M. Sc. / Ph. D. Students, college teachers and faculty members pursuing research in the field of Bioinformatics and Drug design.
PREREQUISITES	: Knowledge of basics of computers and Windows
NUMBER OF PARTICIPANTS	: 35-40
EXPECTED DATE OF ANNOUNCEMENT	: November, 2016
BOARDING & LODGING ARRANGEMENTS	: An accommodation for 7-8 persons can be arranged on first cum- first serve basis in the University Guest house.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,200.00 (Faculty) ₹. 800.00 (Students)	As per University Guest House rates

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**DR. Y. S. PARMAR UNIVERSITY OF HORTICULTURE & FORESTRY,
NAUNI, SOLAN, HIMACHAL PRADESH**

Training Code: [YSPUHF-01]

Title	: <i>Bioinformatics and its Application in Plants Sciences</i>
Date	: <i>3rd - 7th October, 2016</i>
Duration	: <i>5 Days</i>
Subject Area	: <i>General Bioinformatics Trainings</i>
OBJECTIVES: To promote awareness of IT applications in Biological Sciences, Bioinformatics tools for genomic and proteomic analysis, hands on trainings in basic bioinformatics tools.	
CONTENTS: Introduction to Bioinformatics, biological databases, phylogenetic & sequence analysis tools , structural bioinformatics.	
METHODOLOGY	: Lectures, Demonstrations and Practical Sessions.
LEVEL OF PARTICIPANTS	: Scientists, research scholars, students and staff of Bioinformatics Centers.
PREREQUISITES	: Basic computer operations, Internet operations
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: September, 2016
BOARDING & LODGING ARRANGEMENTS	: As per prevailing rates.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,000.00	

Training Code: [YSPUHF-02]

Title	:	<i>Molecular Modeling and Drug Designing</i>
Date	:	<i>23rd - 27th January, 2017</i>
Duration	:	<i>5 Days</i>
Subject Area	:	<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	:	Knowledge of basic computer operations and biology
NUMBER OF PARTICIPANTS	:	20
EXPECTED DATE OF ANNOUNCEMENT	:	December, 2016

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,500.00	

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DIBRUGARH UNIVERSITY, DIBRUGARH

Training Code: [DIBRUNIV-01]

Title	: Advance Workshop on Application of Computational & Structural Bioinformatics in Biological Research
Date	: 1 st – 6 th November, 2016
Duration	: 6 Days
Subject Area	: Computational & Structural Bioinformatic
OBJECTIVES: To provide advance training on the tools and techniques of Computational & Structural Bioinformatics in Biological research. CONTENTS: Hands-on and theoretical workshop on the sophisticated use of the tools and techniques of Computational & Structural Bioinformatics.	
METHODOLOGY	: Workshop: Lectures, Demos and Hands on session
LEVEL OF PARTICIPANTS	: Researchers, Scientists and Teachers
PREREQUISITES	: Masters Degree in Biological Sciences with basic knowledge of Bioinformatics.
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: One month before the scheduled date
BOARDING & LODGING ARRANGEMENTS	: Boarding & lodging can be provided on request based on availability

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 2500.00 (₹. 1500.00 for Research Scholars)	Separate
SAARC	₹. 3000.00	Separate
Other Countries	₹. 5000.00	Separate

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G. B. PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY, PANTNAGAR

Training Code: [GBPUAT-01]

Title	: <i>Addressing the complexity of Stress Biology through Hi-throughput Omics data analysis using Bioinformatics Tools</i>
Date	: 4 th – 7 th October, 2016
Duration	: 4 Days
Subject Area	: <i>Bioinformatics with respect to Agriculture / Plant Sciences</i>

OBJECTIVES: Today, in a world of more than 7 billion people, great challenges are faced by agriculture sector to ensure the food security by maintaining high productivity with quality standards. The consensus prediction is that global climate change will destabilize plant growth conditions and in turn productivity due to severe fluctuations in temperature and erratic weather conditions. These adverse conditions will most likely favour the spread of plant pathogens and pests into new geographic areas. Losses to pests and disease in crop plants continue to pose a significant threat to agriculture and food security. Such a scenario increases the need to develop biotic as well as abiotic stress in crop plants at a speed that cannot be met by breeding alone. Addressing these major challenges will require an interdisciplinary and concerted approach. The aim of the workshop is to provide a platform for presenting new strategies for addressing the complexity of stress biology through hi-throughput OMICS technologies using modern bioinformatics tools. Bioinformatics is playing a key role to establish a link between the information encoded in genomic sequences to the observed behavior of living organisms. Bioinformatics tools are capable to recognize the hidden biological information. Major goal for this four-days workshop is to appreciate the harnessing of potential of huge genomics data by the professionals and exchange their scientific ideas to develop new research avenues to sort-out these challenges. The major aims of the workshop are:

- Acquaintance of students / faculty members and scientist about the importance of OMICS technologies and interpretation of data for resolving the complexity of stress biology.
- Genome sequencing, assembly, annotation and mapping of resistance genes and its implication for improving stress resistance in plants.
- High-throughput Omics data (Transcriptomics, Proteomics, Signalomics and Metabolomics) to understand the role of Differentially Expressed Genes MicroRNA in biotic and abiotic stresses.
- Information about molecular approaches for deployment of resistance/tolerance for biotic and abiotic stresses.

CONTENTS: Next Generation Sequencing: Introduction of NGS, NGS data assembly methods, Popular Next Generation Technologies, Tools for NGS data assembly and analysis, Application of NGS in agriculture.

Transcriptomics: Introduction of transcriptome data, Different approaches of transcriptome data analysis, Computational tools/software/server/databases for transcriptome analysis, Applications of transcriptome data analysis in Agriculture.

Proteomics: Phosphorylation site prediction, protein structure prediction, visualization and validation, Binding site prediction and analysis, Protein-Protein interaction, Molecular docking

studies for identification of agriculturally important lead molecular(s), Analysis of proteomics data generated through wet lab experimentations.	
Metabolomics and Systems Biology: Introduction to Metabolomics, Databases and tool for metabolom analysis, Metabolic modeling, Network-based analysis of plant-pathogen interactions. Multiscale network analysis for biological insights in crop plants.	
METHODOLOGY	: Lectures, demonstrations and hands-on exercises
LEVEL OF PARTICIPANTS	: Participants should be teachers/scientists/academicians or Ph.D. Students/Post-doctoral fellows/Research fellows working in different ICAR institutes SAU/Basic Science Institutes/State Governments/Private Organizations.
PREREQUISITES	: Basic knowledge of molecular biology, life sciences and agricultural sciences with use of computer.
NUMBER OF PARTICIPANTS	: 25
EXPECTED DATE OF ANNOUNCEMENT	: July, 2016
BOARDING & LODGING ARRANGEMENTS	: The arrangements for the stay for the participants will be made in university guest house only on request in advance. Extra payment has to be done for this.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 2000.00	Nil

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GAUHATI UNIVERSITY, GAUHATI

Training Code: [BIFGU-01]

Title	:	<i>Computational and Structural Bioinformatics</i>
Date	:	18 th – 20 th October, 2016
Duration	:	3 Days
Subject Area	:	<i>Computational & Structural Bioinformatics</i>
OBJECTIVES: To acquaint participant in Computational and Structural Bioinformatics practices in the field of Biological sciences. The training will impart relevant hands on practical in different software and programs used in Structural Bioinformatics. CONTENTS: Introduction to computational and structural bioinformatics, applications of Bioinformatics in structural characterization of different Bio molecules, Protein databases, use of 3D structure prediction tools and evaluations etc.		
METHODOLOGY	:	Hands on training (Dry and Wet lab), Demonstrations, lectures etc
LEVEL OF PARTICIPANTS	:	P.G. and PhD students of Zoology, Botany, Chemistry and other life science students
PREREQUISITES	:	Basic knowledge in Bioinformatics and proteomics.
NUMBER OF PARTICIPANTS	:	20
EXPECTED DATE OF ANNOUNCEMENT	:	25 th August, 2016
BOARDING & LODGING ARRANGEMENTS	:	Will be arranged in Guest house of Gauhati University

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 600.00	₹. 1200.00
SAARC	₹. 1000.00	₹. 1600.00
Other Countries	₹. 1500.00	₹. 2200.00

Training Code: [BIFGU-02]

Title	: <i>Bioinformatics with respect to Biodiversity</i>
Date	: 19 th – 21 st January, 2017
Duration	: 3 Days
Subject Area	: <i>Bioinformatics with respect to Environment & Biodiversity</i>
<p>OBJECTIVES: To acquaint participant in Computational practices in the field of Biodiversity and Environmental studies. The training will impart relevant hands on practical in different software and programs used in Biodiversity assessment and studies.</p> <p>CONTENTS: Introduction to Bioinformatics and bioinformatics, applications of Bioinformatics in Environmental and Biodiversity assessment and studies, different Bioinformatics tools related to Biodiversity studies.</p>	
METHODOLOGY	: Hands on training (Dry and Wet lab), Demonstrations, lectures etc
LEVEL OF PARTICIPANTS	: Faculty (any life science branches)
PREREQUISITES	: Basic knowledge in Bioinformatics and proteomics.
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: 1 st December, 2016
BOARDING & LODGING ARRANGEMENTS	: Will be arranged in Guest house of Gauhati University

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1000.00	₹. 1500.00
SAARC	₹. 2000.00	₹. 2500.00
Other Countries	₹. 2500.00	₹. 3000.00

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GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR

Training Code: [GJUST-01]

Title	: <i>Computational & Structural Bioinformatics</i>
Date	: <i>August, 2016</i>
Duration	: <i>3 Days</i>
Subject Area	: <i>Computational & Structural Bioinformatics</i>
OBJECTIVES: To educate students and young faculty in the field of Bioinformatics.	
CONTENTS: Gene & Genome Analysis, Protein structural & Functional analysis.	
METHODOLOGY	: Lecture/Demonstration/Hands on Sessions etc.
LEVEL OF PARTICIPANTS	: Undergraduate/Post-graduate/Ph.D./ Life Science faculty & Scientists.
PREREQUISITES	: Basic Knowledge of computer & Biology.
NUMBER OF PARTICIPANTS	: 30
EXPECTED DATE OF ANNOUNCEMENT	: June-July, 2016.
BOARDING & LODGING ARRANGEMENTS	: Available, provided by the university on payment basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,000.00 (Student) ₹. 1,200.00 (Research Student) ₹. 1,500.00 ((Academic Faculty) ₹. 3,000.00 (Industry sponsored)	₹. 300.00/Day
SAARC	₹. 10,000.00	₹. 300.00/Day Extra
Other Countries	₹. 10,000.00	₹. 300.00/Day Extra

Training Code: [GJUST --02]

Title	:	<i>Bioinformatics with respect to Environment & Biodiversity.</i>
Date	:	<i>October, 2016</i>
Duration	:	<i>3 Days</i>
Subject Area	:	<i>Computational & Structural Bioinformatics.</i>
OBJECTIVES: To educate students and young faculty in the field of Bioinformatics. CONTENTS: Gene & Genome Analysis, Protein structural & Functional analysis.		
METHODOLOGY	:	Lecture/Demonstration/Hands on Sessions etc.
LEVEL OF PARTICIPANTS	:	Undergraduate/Post-graduate/Ph.D./ Life Science faculty & Scientists.
PREREQUISITES	:	Basic Knowledge of computer & Biology.
NUMBER OF PARTICIPANTS	:	30
EXPECTED DATE OF ANNOUNCEMENT	:	August-September 2016.
BOARDING & LODGING ARRANGEMENTS	:	Available, provided by the university on payment basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,000.00 (Student) ₹. 1,200.00 (Research Student) ₹. 1,500.00 ((Academic Faculty) ₹. 3,000.00 (Industry sponsored)	₹. 300.00/Day
SAARC	₹. 10,000.00	₹. 300.00/Day Extra
Other Countries	₹. 10,000.00	₹. 300.00/Day Extra

Training Code: [GJUST --03]

Title	: <i>Gene Mining from Big Data Biotechnology (BDB)</i>
Date	: <i>February, 2017</i>
Duration	: <i>3 Days</i>
Subject Area	: <i>Computational & Structural Bioinformatics</i>
OBJECTIVES: To educate students and young faculty in the field of Bioinformatics. CONTENTS: Gene & Genome Analysis, Protein structural & Functional analysis.	
METHODOLOGY	: Lecture/Demonstration/Hands on Sessions etc.
LEVEL OF PARTICIPANTS	: Undergraduate/Post-graduate/Ph.D./ Life Science faculty & Scientists.
PREREQUISITES	: Basic Knowledge of computer & Biology.
NUMBER OF PARTICIPANTS	: 30
EXPECTED DATE OF ANNOUNCEMENT	: October-November, 2016.
BOARDING & LODGING ARRANGEMENTS	: Available, provided by the university on payment basis

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,000.00 (Student) ₹. 1,200.00 (Research Student) ₹. 1,500.00 ((Academic Faculty) ₹. 3,000.00 (Industry sponsored)	₹. 300.00/Day
SAARC	₹. 10,000.00	₹. 300.00/Day Extra
Other Countries	₹. 10,000.00	₹. 300.00/Day Extra

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HOLY CROSS COLLEGE, TRICHY

Training Code: [HCC-01]

Title	:	<i>National Workshop on “Applications of Bioinformatics in Biology Teaching & Research”</i>
Date	:	<i>29th – 31st August, 2016</i>
Duration	:	<i>3 Days</i>
Subject Area	:	<i>Bioinformatics</i>
<p>OBJECTIVES: To furnish the faculty members and scholars with an understanding of the application of Bioinformatics in the field of biology teaching and research.</p> <p>CONTENTS: Participants will gain practical experience on teaching and applying Bioinformatics tools. A comprehensive lecture and laboratory manual will be provided. Participants will complete team and individual assignments.</p>		
METHODOLOGY	:	Lectures, Demos, Hands on Session & Projects.
LEVEL OF PARTICIPANTS	:	Faculty members & Research Scholars.
NUMBER OF PARTICIPANTS	:	20
EXPECTED DATE OF ANNOUNCEMENT	:	July, 2016.
BOARDING & LODGING ARRANGEMENTS	:	Will be arranged.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 500.00	₹. 500.00 + Actual charges of accommodation

Training Code: [HCC --02]

Title	:	<i>Workshop on, "Basics of Bioinformatics for UG Life Science students".</i>
Date	:	<i>7th – 9th January, 2017</i>
Duration	:	<i>3 Days</i>
Subject Area	:	<i>Basic Bioinformatics.</i>
OBJECTIVES: To train the III UG Life Science students with basic knowledge and skills in handling the fundamental tools in Bioinformatics. CONTENTS: Participants will get exposed to the field of Bioinformatics and gain practical experience in using basic Bioinformatics tools.		
METHODOLOGY	:	Lectures, Demos & Hands on Sessions.
LEVEL OF PARTICIPANTS	:	III UG life science students.
NUMBER OF PARTICIPANTS	:	250
EXPECTED DATE OF ANNOUNCEMENT	:	November 2016.
BOARDING & LODGING ARRANGEMENTS	:	Will be arranged.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 500.00	₹. 500.00 + Actual charges of accommodation

Training Code: [HCC--03]

Title	: <i>National Conference on "Molecular Modelling and Drug Designing Approach"</i>
Date	: <i>29th – 31st January, 2017</i>
Duration	: <i>3 Days</i>
Subject Area	: <i>Advanced Bioinformatics</i>
OBJECTIVES: To train the school students with hands on experience in handling the tools in Molecular modeling and Drug design and its application in the field of Life Science. CONTENTS: Participants will gain practical experience in the above mentioned areas. A comprehensive lecture and laboratory manual will be provided. Participants will complete team and individual assignments.	
METHODOLOGY	: Lectures.
LEVEL OF PARTICIPANTS	: UG, PG, M.Phil, Ph.D students & faculty members.
NUMBER OF PARTICIPANTS	: 150
EXPECTED DATE OF ANNOUNCEMENT	: November, 2016.
BOARDING & LODGING ARRANGEMENTS	: Will be arranged

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹ . 500.00	₹ . 200.00 + Actual charges of accommodation

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INDIAN VETERINARY RESEARCH INSTITUTE, IZATNAGAR

Training Code: [IVRI-01]

Title	:	<i>"Basic Concepts in Bioinformatics for Beginners"</i>
Date	:	7 th – 11 th November, 2016
Duration	:	5 Days
Subject Area	:	<i>Bioinformatics</i>
OBJECTIVES: To train the scientists, Researchers and students in Bioinformatics Tools which are frequently used in Biotechnology. CONTENTS: 1. Basic Statistical Tools in Bioinformatics. 2. Sequence Data Retrieval. 3. Sequence Data Submission to Database. 4. Sequence Editing and Analysis. 5. Sequence Alignment. 6. Phylogenetic Analysis .		
METHODOLOGY	:	Lecture, Demos and Hands on session
LEVEL OF PARTICIPANTS	:	Scientists, Researchers and Students.
NUMBER OF PARTICIPANTS	:	35 (Tentative)
EXPECTED DATE OF ANNOUNCEMENT	:	7 th November, 2016
BOARDING & LODGING ARRANGEMENTS	:	Will be provided as per ICAR rules and regulations

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	NIL	Will be provided as per ICAR rules and regulations
SAARC	NIL	Will be provided as per ICAR rules and regulations
Other Countries	NIL	Will be provided as per ICAR rules and regulations

Training Code: [IVRI-02]

Title	: <i>"Computational Approaches in Biotechnology for Beginners"</i>
Date	: 23 rd – 27 th January, 2017
Duration	: 5 Days
Subject Area	: <i>Bioinformatics</i>
OBJECTIVES: To train the scientists, Researchers and students in Bioinformatics Analysis of Genomic data. CONTENTS: 1. Computer in Biocomputing. 2. Tools for Nucleic acid amplification strategies. 3. Sequence retrieval, analysis and submission. 4. Applied aspects of Bioinformatics.	
METHODOLOGY	: Lecture, Demos and Hands on session
LEVEL OF PARTICIPANTS	: Scientists, Researchers and Students.
NUMBER OF PARTICIPANTS	: 35 (Tentative)
EXPECTED DATE OF ANNOUNCEMENT	: 23 rd January, 2017
BOARDING & LODGING ARRANGEMENTS	: Will be provided as per ICAR rules and regulations

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	NIL	Will be provided as per ICAR rules and regulations
SAARC	NIL	Will be provided as per ICAR rules and regulations
Other Countries	NIL	Will be provided as per ICAR rules and regulations

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INSTITUTE OF BIORESOURCES AND SUSTAINABLE DEVELOPMENT (IBSD), IMPHAL

Training Code: [IBSD-01]

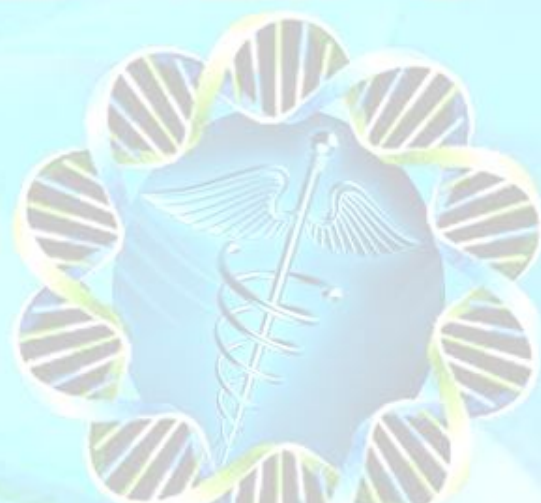
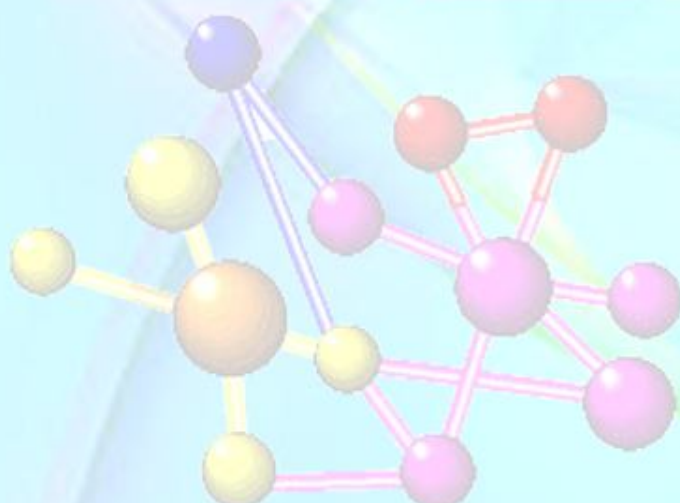
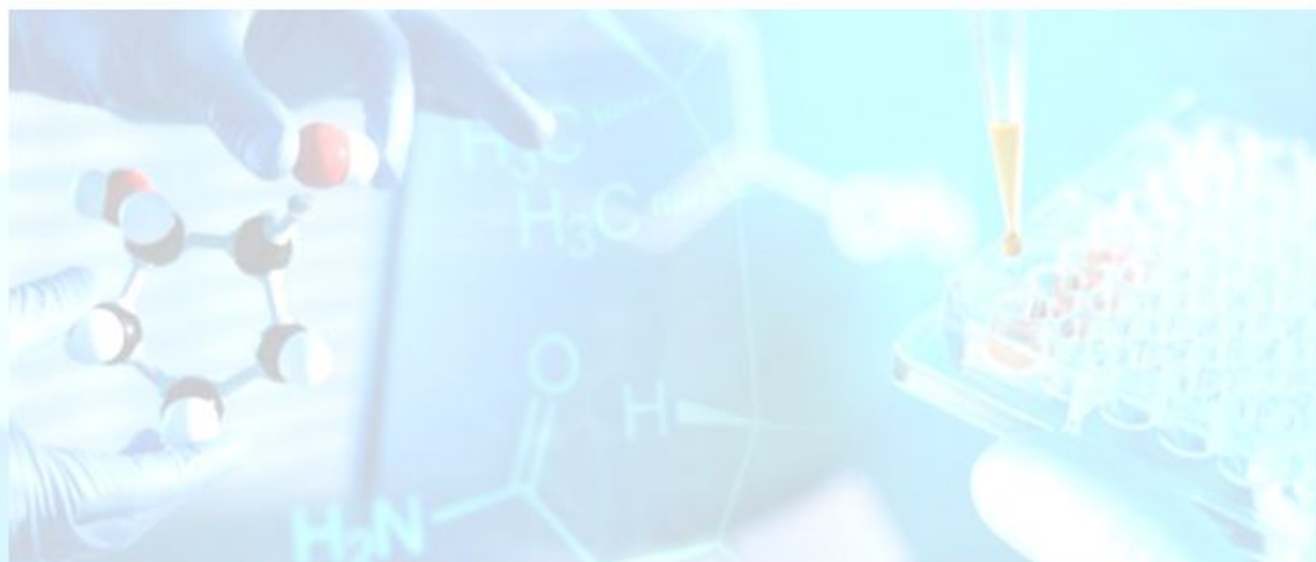
Title	:	<i>Biological Databases & Knowledge Discovery (BDKD)</i>
Date	:	<i>6th – 7th February, 2017</i>
Duration	:	<i>2 Days</i>
Subject Area	:	<i>Gene Mining from Big Data Biotechnology (BDB)</i>
<p>OBJECTIVES: The objective of this workshop is to provide the training in the field of bioinformatics and communicate some of the latest developments in biological analysis and meaningful information retrieval to the audience. Each day there will be lectures and hands-on-sessions.</p> <p>CONTENTS: The workshop will mainly focus on biological disease databases and information mining. The broad areas to be covered during various sessions include; Bioinformatics introductory session, Biological databases, Type and organization of biological data, Disease related database usages (e.g. OMIM), Search engines, Hands-on experience on related software, case studies, actual real-time problem solving and open discussion session.</p>		
METHODOLOGY	:	Workshop (Lectures & hands-on-sessions)
LEVEL OF PARTICIPANTS	:	Participation is free and intended for Biologists & Chemists (MSc, PhD, M. Tech, MBBS, M. Pharma, Non-Bioinformaticians): The target audiences are professionals and students working in life sciences domain and Biologists who are interested in understanding how to incorporate bioinformatics knowledge into their research. This workshop is not intended for bioinformatics students and professionals.
PREREQUISITES	:	Basic computer knowledge.
NUMBER OF PARTICIPANTS	:	25
EXPECTED DATE OF ANNOUNCEMENT	:	January, 2017
BOARDING & LODGING ARRANGEMENTS	:	To be bear by the candidate
ANY OTHER RELEVANT INFORMATION	:	Participation is free, and the participants are required to arrange their own accommodations. The selected participants should bring a proof of identity (photo ID etc.) to attend the workshop.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	NA	NA

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INTERNATIONAL CENTRE FOR GENETIC ENGINEERING AND BIOTECHNOLOGY, NEW DELHI

Training Code: [ICGEB-01]

Title	: <i>Introduction to modern computational approaches for high-throughput data analysis</i>
Date	: 20 th – 21 st October, 2016
Duration	: 2 Days
Subject Area	: <i>Genome and Proteome Analysis</i>

OBJECTIVES:

1. Introduction to various computational data types and data formats used in HT data analysis.
2. Basic training to modern computational approaches for HT data analysis.

CONTENTS: Next-Generation Sequencing data analysis; Proteome data analysis.

METHODOLOGY	: Lectures, Demos and Hands-on-Session.
LEVEL OF PARTICIPANTS	: Students, Post-doctoral fellows.
PREREQUISITES	: -
NUMBER OF PARTICIPANTS	: 15
EXPECTED DATE OF ANNOUNCEMENT	: 20 th September, 2016
BOARDING & LODGING ARRANGEMENTS	: Nil

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	Nil	Nil

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JAMIA HAMDARD UNIVERSITY, NEW DELHI

Training Code: [JHU-01]

Title	: 8 th Bioinformatics Seminar-cum-Hands-on Training 2016 on "Protein Sequence to Function Through Structural Bioinformatics"
Date	: 10 th – 11 th November, 2016
Duration	: 2 Days
Subject Area	: Computational and Structural Bioinformatics
OBJECTIVES: Protein tertiary structure prediction, functional analysis and protein interaction studies <i>in silico</i> .	
CONTENTS: Protein structure prediction from sequence, its validation and function prediction by way of interaction studies using docking approach.	
METHODOLOGY	: Lectures, demos and hands-on session.
LEVEL OF PARTICIPANTS	: Teachers/Scientists; PhD scholars; Postgraduate students in their year in the area of Bioinformatics, Computer Science, Chemistry, Life Sciences, Medicine and Pharmacy.
PREREQUISITES	: Basic computational knowledge and interest in bioinformatics
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: 22 nd September, 2016
BOARDING & LODGING ARRANGEMENTS	: -

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,000.00	+ Guest house tariff separately
SAARC	₹. 1,000.00	+ Guest house tariff separately
Other Countries	USD 50.00	+ Guest house tariff separately

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KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES UNIVERSITY, COLLEGE OF FISHERIES, MANGALORE

Training Code: [KVAFSU-01]

Title	:	<i>Bioinformatics and its application in marine biotechnology</i>
Date	:	19 th – 21 ST January, 2017
Duration	:	3 Days
Subject Area	:	<i>Bioinformatics with respect to Animal/Aqua Sciences</i>
OBJECTIVES: To introduce scientists/teachers/students to basic bioinformatics and its application to marine sciences. CONTENTS: Introduction to bioinformatics tools and biological databases, DNA and protein sequence comparison and analysis, Phylogenetic analysis and data mining tools, Gene identification and comparative genome analysis, Protein modeling, application of bioinformatics in studying pathogens related to public health and aquatic animals.		
METHODOLOGY	:	Lectures, Demonstration and Hands-on-session
LEVEL OF PARTICIPANTS	:	University teachers & scientists working in the field of marine sciences/ animal sciences /Medical/Basic sciences
PREREQUISITES	:	Basic knowledge of computers
NUMBER OF PARTICIPANTS	:	15
EXPECTED DATE OF ANNOUNCEMENT	:	One month before the scheduled date
BOARDING & LODGING ARRANGEMENTS	:	Not required

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	NA	-
SAARC	NA	-
Other Countries	NA	-

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LADY DOAK COLLEGE, MADURAI

Training Code: [LDC-01]

Title	:	<i>Workshop on "Applications of Bioinformatics tools in Molecular Taxonomic studies"</i>
Date	:	20 th - 24 th February, 2017
Duration	:	5 Days
Subject Area	:	<i>Bioinformatics with respect to Environment & Biodiversity</i>
OBJECTIVES: To develop hands on skills on molecular biological techniques pertaining to microbial taxonomy.		
CONTENTS: Genomic DNA isolation, primer designing, PCR amplification, Sequence submission and <i>in silico</i> analysis.		
METHODOLOGY	:	Lectures, Demos and Hands on Session
LEVEL OF PARTICIPANTS	:	Students, Researchers, Scientists and Teachers
PREREQUISITES	:	B.Sc / B.Tech Degree in Biological Sciences
NUMBER OF PARTICIPANTS	:	20
EXPECTED DATE OF ANNOUNCEMENT	:	One month before the scheduled date
BOARDING & LODGING ARRANGEMENTS	:	Lodging can be provided on request based on availability

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 5,000.00	-
SAARC	₹. 1,000.00	-

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MANIPUR UNIVERSITY, IMPHAL

Training Code: [MU-01]

Title	: <i>Bioinformatics in Microbial diversity</i>
Date	: 12 th - 16 th December, 2016
Duration	: 5 Days
Subject Area	: <i>Bioinformatics with respect to Environment & Biodiversity</i>
OBJECTIVES: To aware and strengthening the skill and Knowledge of bioinformatics to Students and Teachers.	
CONTENTS: Introduction of Bioinformatics, Microbial sequence searching, microbial phylogeny analysis and software etc.	
METHODOLOGY	: Lectures, Demos & Hands on Session.
LEVEL OF PARTICIPANTS	: College teachers, Ph.D. Scholar and M.Sc. Students.
PREREQUISITES	: Life Sciences.
NUMBER OF PARTICIPANTS	: 25
EXPECTED DATE OF ANNOUNCEMENT	: 2 nd Week of November, 2016
BOARDING & LODGING ARRANGEMENTS	: Will be arranged on request & advance payment.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	Free for Students ₹. 1,000.00 (Teachers)	-

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MIZORAM UNIVERSITY, AIZAWL

Training Code: [MZU-01]

Title	:	<i>Analysis of Genetic Variations in Cancer</i>
Date	:	<i>2nd – 6th August, 2016</i>
Duration	:	<i>5 Days</i>
Subject Area	:	<i>Genome and Proteome Analysis</i>
OBJECTIVES: To analyze the genetic variations and cancer causing SNPs in Genes and functional analysis of the pathogenic mutations. CONTENTS: EnterzSNP, HapMap, Mitomap, OMIM, UCSC and Ensembl genome browsers, DNA Sequencing, NCBI mutation Analyzer, SIFT, Polyphen, MutationTaster, dbSNPs, PopSet, DNA Baser, SeqCAPE, Variant Predictor, HOPE, I-Mutant, Fold X, Panther, Human Splicing Finder, Fragment Analysis, Gene Mapper.		
METHODOLOGY	:	Lectures, Demonstration and Hands on sessions
LEVEL OF PARTICIPANTS	:	Faculty, Scientists and Research Scholars in Life Sciences.
PREREQUISITES	:	Knowledge of bioinformatics, biological database and basic computational skill.
NUMBER OF PARTICIPANTS	:	15
EXPECTED DATE OF ANNOUNCEMENT	:	1 st July, 2016
BOARDING & LODGING ARRANGEMENTS	:	Accommodation can be arranged in the University Guest House on payment basis

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 750.00	₹. 2500.00

Training Code: [MZU-02]

Title	:	<i>Next Generation Sequencing – Concepts and Data Analysis</i>
Date	:	<i>4th – 8th October, 2016</i>
Duration	:	<i>5 Days</i>
Subject Area	:	<i>Gene Mining from Big Data Biotechnology (BDB)</i>
OBJECTIVES: The goal of the workshop is to understand the concept and methods to analyze next-generation data. CONTENTS: : Introduction to NGS platforms, Chemistry of NGS technologies, Application of NGS in Microbiology and Human research. Tools for NGS data assembly and analysis (fastqc, SAM and BAM tools, Galaxy, TRIM-METRIC, USEARCH, QIIME), Raw Data analysis - Preprocessing like QC, Trimming, etc., NGS based Metagenomic Analysis - OTU classification, Identification and Diversity analysis, NGS based Functional Analysis - Gene prediction and functional annotation, MitoSeq, MitoBAM, R Console, GC View.		
METHODOLOGY	:	Lectures, Demonstration and Hands on sessions
LEVEL OF PARTICIPANTS	:	Faculty, Scientists and Research Scholars in Life Sciences.
PREREQUISITES	:	Knowledge of basic Linux commands, computational skill and bioinformatics.
NUMBER OF PARTICIPANTS	:	15
EXPECTED DATE OF ANNOUNCEMENT	:	1 st September, 2016
BOARDING & LODGING ARRANGEMENTS	:	Accommodation can be arranged in the University Guest House on payment basis

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 750.00	₹. 2500.00

Training Code: [MZU-03]

Title	: <i>Methods in Molecular Phylogeny</i>
Date	: 20 th – 24 th February, 2017
Duration	: 5 Days
Subject Area	: <i>Bioinformatics with respect to Environment & Biodiversity</i>
OBJECTIVES: To learn the theory and practical methods to DNA Barcoding, Phylogenetic reconstruction and evolutionary studies. CONTENTS: DNA isolation and Sequencing, Sequence Annotation and Analysis, Principles of Phylogenetics, Phylogenetic reconstruction with maximum parsimony, Maximum Likelihood & Neighbour Joining methods using software like MEGA, Mr. Bayes, PAUP, BEAST, RAXML, TNT, Network Analysis.	
METHODOLOGY	: Lectures, Demonstration and Hands on sessions.
LEVEL OF PARTICIPANTS	: Faculties, Research Scholars and Post-Graduates in Life Science.
PREREQUISITES	: Knowledge of bioinformatics and biological database and basic computational skill
NUMBER OF PARTICIPANTS	: 15
EXPECTED DATE OF ANNOUNCEMENT	: 1 st January, 2017
BOARDING & LODGING ARRANGEMENTS	: Accommodation can be arranged in the University Guest House on payment basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 750.00	₹. 2500.00

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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH, NEW DELHI

Training Code: [NIPGR-01]

Title	:	<i>Comparative Plant Genomics</i>
Date	:	<i>9th – 10th March, 2017 (Tentative)</i>
Duration	:	<i>2 Days</i>
Subject Area	:	<i>Bioinformatics with respect to Agriculture/ Plant Sciences</i>
OBJECTIVES: To give an overview of plant genomes and tools for comparative genomics studies. CONTENTS: Examples on the use of bioinformatics for addressing problems related to genome and proteome analysis in plants.		
METHODOLOGY	:	Lectures and Hands on Sessions
LEVEL OF PARTICIPANTS	:	Plant Researchers from academia / industry
PREREQUISITES	:	Nil
NUMBER OF PARTICIPANTS	:	30
EXPECTED DATE OF ANNOUNCEMENT	:	Late January/ Early February
BOARDING & LODGING ARRANGEMENTS	:	Participants have to arrange their own accommodation.
ANY OTHER RELEVANT INFORMATION	:	Participants must bring own laptops (Wifi Enabled)

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1500.00 (Students) ₹. 3000.00 (Others)	-
SAARC	₹. 3000.00 (Students) ₹. 5000.00 (Regular)	-
Other Countries	₹. 4000.00 (Students) ₹. 5000.00 (Regular)	-

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NORTH EASTERN HILL UNIVERSITY, NEHU CAMPUS, SHILLONG

Training Code: [NEHU-01]

Title	: A Soft Computing Approach in Molecular Phylogenetics: Analysis and Reuse of Public domain data
Date	: 18 th – 20 th February, 2017
Duration	: 3 Days
Subject Area	: Bioinformatics with respect to Environment & Biodiversity
OBJECTIVES: To impart knowledge and training enabling interested individuals to learn the core concepts, achieve specialization in the front line areas for respective opportunities. CONTENTS: Introduction to database concepts; Introduction and conceptual basis of Molecular Phylogenetics, Phylogenetic tools viz. MEGA, BEAST, Mesquite, MrBayes etc. to analyze publicly mined data.	
METHODOLOGY	: Lectures, Demos, Hands on Session
LEVEL OF PARTICIPANTS	: Students, Researchers, Scientists and Teachers
PREREQUISITES	: Post Graduate in Life Sciences
NUMBER OF PARTICIPANTS	: 30
EXPECTED DATE OF ANNOUNCEMENT	: One month prior
BOARDING & LODGING ARRANGEMENTS	Boarding & lodging can be provided on request based on availability.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 2000.00 for students and ₹. 3000.00 for Faculties/ Teachers	-

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PRESIDENCY COLLEGE, CHENNAI

Training Code: [PCC-01]

Title	: <i>Application of Bioinformatics in Computational and Structural Biology</i>
Date	: 27 th - 29 th September, 2016
Duration	: 3 Days
Subject Area	: <i>Genomic and Proteomics</i>
OBJECTIVES: To give an insight into the application of Bioinformatics in their field of Research. CONTENTS: Introduction in understanding the concepts in computational and Structural biology, Biological sequence analysis, Protein Modeling, applications of computational methods and tools in computational drug design, Rational drug design, Databases, Structural genomics.	
METHODOLOGY	: Workshop: Lecture, Demos and Hands on training.
LEVEL OF PARTICIPANTS	: Students, Researchers and Teachers.
PREREQUISITES	: Master Degree in Life Science.
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: 1 month before the workshop
BOARDING & LODGING ARRANGEMENTS	: Lodging arrangements will be done on request.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,500.00	Separate
SAARC	₹. 1,500.00	Separate
Other Countries	₹. 1,500.00	Separate

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S. KULA WOMEN'S COLLEGE, MANIPUR

Training Code: [SKWC-01]

Title	: <i>Plant genomic analysis</i>
Date	: <i>8th – 12th August, 2016</i>
Duration	: <i>5 Days</i>
Subject Area	: <i>Genome and Proteome Analysis.</i>
OBJECTIVES: To aware and strengthening the skill and Knowledge of bioinformatics to Students and Teachers. CONTENTS: Introduction of Bioinformatics, Sequence Alignment tools, other software etc.	
METHODOLOGY	: Lectures, Demos & Hands on Session.
LEVEL OF PARTICIPANTS	: Students and BLISS Coordinators.
PREREQUISITES	: Life Sciences
NUMBER OF PARTICIPANTS	: 25
EXPECTED DATE OF ANNOUNCEMENT	: 2 nd Week of July, 2016
BOARDING & LODGING ARRANGEMENTS	: Will be arranged on request & advance payment.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	Free for students / ₹ 1,000.00 for Teachers	

Training Code: [SKWC-02]

Title	: <i>Bioinformatics in Biodiversity</i>
Date	: 20 th – 24 th December, 2016
Duration	: 5 Days
Subject Area	: <i>Bioinformatics with respect to Environment & Biodiversity.</i>
OBJECTIVES: To aware and strengthening the skill and Knowledge of bioinformatics to Students and Teachers.	
CONTENTS: Introduction of Bioinformatics and Biodiversity, Tools, Software etc.	
METHODOLOGY	: Lectures, Demos & Hands on Session.
LEVEL OF PARTICIPANTS	: Students.
PREREQUISITES	: Life Sciences.
NUMBER OF PARTICIPANTS	: 25
EXPECTED DATE OF ANNOUNCEMENT	: 2 nd Week of November, 2016
BOARDING & LODGING ARRANGEMENTS	: Will be arranged on request & advance payment.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	Free for students / ₹. 1,000.00 for Teachers	

Training Code: [SKWC-03]

Title	: <i>Bioinformatics in Agriculture</i>
Date	: 27 th – 31 st March, 2017
Duration	: 5 Days
Subject Area	: <i>Bioinformatics with respect to Agriculture.</i>
OBJECTIVES: To aware and strengthening the skill and Knowledge of bioinformatics to Students and Teachers.	
CONTENTS: Introduction of Bioinformatics and Agricultural Science, Tools, Software etc.	
METHODOLOGY	: Lectures, Demos & Hands on Session.
LEVEL OF PARTICIPANTS	: Students.
PREREQUISITES	: Life Sciences.
NUMBER OF PARTICIPANTS	: 25
EXPECTED DATE OF ANNOUNCEMENT	: 2 nd Week of February, 2017
BOARDING & LODGING ARRANGEMENTS	: Will be arranged on request & advance payment.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	Free for students / ₹. 1,000.00 for Teachers	

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Web –Address:	www.skwomenscollege.ac.in

ST. ANTHONY'S COLLEGE, SHILLONG

Training Code: [SACS-01]

Title	: <i>Workshop on Linux and Perl programming for Biologists</i>
Date	: 22 nd – 26 th August, 2016
Duration	: 5 Days
Subject Area	: <i>Bioinformatics trainings for coordinators and technical personnel working for the BTISnet Centres</i>

OBJECTIVES: To provide hands-on training on Linux operating system and Perl programming to the researchers working in the life sciences. The skills developed can be used in a wide range of bioinformatics subject areas.

CONTENTS: As detailed below

Date	Pre-Lunch Session	Post-Lunch Session
22 nd August	Linux for Biologists	Hands on Training on Linux OS
23 rd August	Perl basic concepts and data structure	Perl basic operations and data handling
24 th August	Comparison and analysis of sequences using Perl	Handling sequence and data files
25 th August	BioPerl introduction	Data retrieval, handling, and operations through BioPerl
26 th August	BioPerl sequence alignment and other algorithms	Group discussion

METHODOLOGY	: Workshop (Lectures, Demos, and hands on session)
LEVEL OF PARTICIPANTS	: Coordinators and technical personnel (Research Scholars & Faculty Members) working for BTISnet Centres
PREREQUISITES	: Life science background and basic knowledge of computers.
NUMBER OF PARTICIPANTS	: 15
EXPECTED DATE OF ANNOUNCEMENT	: 30 th June, 2016
BOARDING & LODGING ARRANGEMENTS	Outstation participants will be provided accommodation against requests received up to 31 st July, 2016

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1000.00	₹. 1000.00 + Actual charges of accommodation

Training Code: [SACS-02]

Title	: <i>Workshop on R programming for Genomics Application</i>
Date	: 21 st – 23 rd September, 2016
Duration	: 3 Days
Subject Area	: <i>Genome and Proteome Analysis</i>

OBJECTIVES: To provide hands-on training Perl programming and R software to the technical personnel and coordinators of BTISnet Centres particularly to those belonging to North Eastern State-BIFs. The skills developed can be used in a wide range of bioinformatics subject areas as listed in Annexure II (from 1 to 8).

CONTENTS:

Date	Pre-Lunch Session	Post-Lunch Session
21 st September	Introduction to R programming	Hands on Training on Basic R operations and data handling
22 nd September	Intermediate R/ Bioconductor for Sequencing Analysis	Hands on how to forge BS genome data packages
23 rd September	Biological Data Modeling and Scripting in R	Hands on Training on Scripting in R

METHODOLOGY	: Workshop (Lectures, Demos, and hands on session)
LEVEL OF PARTICIPANTS	: Research Scholars & Faculty Members
PREREQUISITES	: Life science background and basic knowledge of computers.
NUMBER OF PARTICIPANTS	: 15
EXPECTED DATE OF ANNOUNCEMENT	: 30 th June, 2016
BOARDING & LODGING ARRANGEMENTS	Outstation participants will be provided accommodation against requests received up to 31 st July, 2016

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 500.00	₹. 500.00 + Actual charges of accommodation

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI, MAHARASHTRA

Training Code: [SGBAU-01]

Title	: <i>Workshop cum Training Program on "Computer Aided Drug Design and Molecular Docking"</i>
Date	: <i>22nd – 23rd September, 2016</i>
Duration	: <i>2 Days</i>
Subject Area	: <i>Drug Design and Molecular Docking.</i>
OBJECTIVES: To create awareness towards application of bioinformatics in drug design program among college/university researchers in biological sciences. CONTENTS: Chemical Structure Databases: Pubchem, Chemspider, Chemical Structure drawing tools: Chems sketch, Chemspider, File format Conversion: Open Babel, ADMET properties, Molecular Docking.	
METHODOLOGY	: Lectures, Demos, Hands on session.
LEVEL OF PARTICIPANTS	: College/University Research Students (Ph.D).
PREREQUISITES	: Knowledge in biology and computer operation.
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: August, 2016
BOARDING & LODGING ARRANGEMENTS	May be arranged in SGBAU University guest house/Valuar hostel on request on payment basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 700.00 for Ph.D Student	₹. 1000.00

Training Code: [SGBAU-02]

Title	:	<i>Workshop on Bioinformatics and Biostatistics</i>
Date	:	<i>17th – 18th January, 2017</i>
Duration	:	<i>2 Days</i>
Subject Area	:	<i>Bioinformatics and Biostatistics.</i>
OBJECTIVES: To provide hands on training on various tools of computer aided drug design. CONTENTS: Biological databases: Nucleic Acid sequence Database, Protein sequence and structure databases, Protein structure Visualization: RASMOL, Protein Structure Prediction: PS2V2, Biostatistics.		
METHODOLOGY	:	Lectures, Demos, and Hands on session.
LEVEL OF PARTICIPANTS	:	PG student and Research Student.
PREREQUISITES	:	Knowledge in biology and computer operation.
NUMBER OF PARTICIPANTS	:	20
EXPECTED DATE OF ANNOUNCEMENT	:	December, 2016
BOARDING & LODGING ARRANGEMENTS		May be arranged in University guest house on request on payment basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 500.00 for PG Student ₹. 700.00 for Research Student	₹. 1000.00

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SIKKIM STATE COUNCIL OF SCIENCE & TECHNOLOGY, EAST SIKKIM

Training Code: [SSCS&T-01]

Title	:	Computational R-Bioinformatics and PERL Programming
Date	:	5 th – 10 th September, 2016
Duration	:	6 Days
Subject Area	:	Computational Biology.
OBJECTIVES: To provide practical training on Computational Bioinformatics on R-Bioinformatics and PERL programming among the Scientists, Research Scholars, SRFs, JRFs and MSc students of Research institutes, Universities and colleges. CONTENTS: Bioinformatics computational programming.		
METHODOLOGY	:	Hands on session with lectures.
LEVEL OF PARTICIPANTS	:	Scientists, Research Scholars, Research Assistants, Senior Research Fellows, Junior Research Fellows, MSc students etc.
PREREQUISITES	:	Knowledge of basic programming and Genetics.
NUMBER OF PARTICIPANTS	:	20
EXPECTED DATE OF ANNOUNCEMENT	:	1 st August, 2016
BOARDING & LODGING ARRANGEMENTS	:	-

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	Self management	Self Management
SAARC	Self management	Self management
Other Countries	Self management	Self management

Training Code: [SSCS&T -02]

Title	:	<i>Bioinformatics in Genomics & Proteomics Researches</i>
Date	:	<i>21st – 23rd February, 2017</i>
Duration	:	<i>3 Days</i>
Subject Area	:	<i>Genomic and Proteomic.</i>
OBJECTIVES: To provide practical training on Genomics and Proteomics researches, among the Scientists, Research Scholars, SRFs, JRFs and MSc students of Research institutes, Universities and colleges. CONTENTS: Bioinformatics, Genomics & Proteomics.		
METHODOLOGY	:	Hands on session with lectures.
LEVEL OF PARTICIPANTS	:	Scientists, Research Scholars, Research Assistants, Senior Research Fellows, Junior Research Fellows, MSc students etc.
PREREQUISITES	:	Knowledge of computers and Genetics.
NUMBER OF PARTICIPANTS	:	20
EXPECTED DATE OF ANNOUNCEMENT	:	20 th January, 2017
BOARDING & LODGING ARRANGEMENTS	:	-

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	Self management	Self Management
SAARC	Self management	Self management
Other Countries	Self management	Self management

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SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES UNIVERSITY, TIRUPATI

Training Code: [SVIMS-01]

Title	: <i>Sixth National Seminar on Bioinformatics</i>
Date	: <i>21st –22nd October, 2016</i>
Duration	: <i>2 Days</i>
Subject Area	: <i>Bioinformatics</i>
<p>OBJECTIVES: The main objective of the National Seminar is to bring together scientists, researchers, students from academic and corporate companies to share their research experiences in the field of Bioinformatics. To induce the need of Bioinformatics in present research era and also the participants will get an opportunity to enlighten their Bioinformatics skills to implement in their respective research area.</p> <p>CONTENTS:</p> <ul style="list-style-type: none"> • Bioinformatics. • Applications of Bioinformatics. • Pharmacophore mapping and molecular dynamics simulations studies. • Conceptual understanding of NGS in biological data analysis. 	
METHODOLOGY	: Lectures, Oral and Poster Presentations, Awards.
LEVEL OF PARTICIPANTS	: PG students, Research Scholars, Staff and Faculty.
PREREQUISITES	: Relevant knowledge on Biology.
NUMBER OF PARTICIPANTS	: 75
EXPECTED DATE OF ANNOUNCEMENT	: August, 2016

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 750.00 (Students and Scholars) ₹. 1200.00 (Faculty and Staff)	₹. 1000.00 (Students and Scholars) ₹. 1600.00 (Faculty and Staff)

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TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY, CHENNAI

Training Code: [TNVASU-01]

Title	: <i>Workshop on Application of Bioinformatics in Genome Analysis</i>
Date	: <i>8th – 12th August, 2016</i>
Duration	: <i>5 Days</i>
Subject Area	: <i>Bioinformatics in Animal Genome and Proteome Analysis</i>

OBJECTIVES:

- To introduce the basic bioinformatics tools and methods to help teachers, lecturers and scholars in order to conduct advanced research in genomics.

CONTENTS: Theory lectures and practical demonstration of the five days workshop will be based on the following themes: Sequence Retrieval from Biological Databases, Sequence Analysis – Introduction to BLAST, Sequence Alignment Methods, ClustalW, Phylogenetic Analysis, Bootstrapping Methods using Phylip, MEGA, etc. Gene/Genome databases, Gene analysis tools, primer design and analysis etc.

METHODOLOGY	: Lectures Demos and Hands on Session.
LEVEL OF PARTICIPANTS	: Teachers, Students and Research Scholars.
PREREQUISITES	: Knowledge of Computers Operation is preferable.
NUMBER OF PARTICIPANTS	: 25-30
EXPECTED DATE OF ANNOUNCEMENT	: 1 st week of July, 2016
BOARDING & LODGING ARRANGEMENTS	: All participants must make their own arrangement. However, accommodation may be arranged on payment basis and on first come first served basis subject to availability.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 2000.00	--

Training Code: [TNVASU-02]

Title	:	<i>Workshop on Application of Bioinformatics in Proteome Analysis</i>
Date	:	19 th – 23 rd September, 2016
Duration	:	5 Days
Subject Area	:	<i>Bioinformatics in Animal Genome and Proteome Analysis</i>
<p>OBJECTIVES: To introduce with basic bioinformatics tools and methods to help teachers, lecturers and scholars in order to conduct advanced research in Proteomics.</p> <p>CONTENTS: Sequence Retrieval from Biological Databases, Sequence Analysis – Introduction to BLAST, Sequence Alignment Methods, ClustalW, Phylogenetic Analysis, Bootstrapping Methods using Phylip, MEGA, etc. PDB, Molecular Visualization, Protein Structure Prediction and analysis-Modeller, Swiss Model Server, ExPASy Web Server's resources etc. Protein Structure Prediction Methods Comparative/Homology Modeling.</p>		
METHODOLOGY	:	Lectures Demos and Hands on Session.
LEVEL OF PARTICIPANTS	:	Teachers, Students and Research scholars.
PREREQUISITES	:	Knowledge of Computers Operation is preferable.
NUMBER OF PARTICIPANTS	:	25-30
EXPECTED DATE OF ANNOUNCEMENT	:	Last week of August, 2016
BOARDING & LODGING ARRANGEMENTS	:	All participants must make their own boarding and lodging arrangement. However, accommodation may be arranged on payment basis and on first come first served basis subject to availability.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 2000.00	--

Training Code: [TNVASU-03]

Title	: <i>Workshop on Information Retrieval System in PG Research</i>
Date	: <i>14th – 18th November, 2016</i>
Duration	: <i>1 (in 5 Batches)</i>
Subject Area	: <i>Knowledge Discovery from Data (KDD)</i>
OBJECTIVES: To give an in depth idea about different information domains and application of Bioinformatics to post graduate and research scholars of Madras Veterinary College (MVC), Chennai-600 007.	
CONTENTS: I. Recent trends in Bioinformatics. II. Biological databases. III. Online information retrieval system. IV. Offline information retrieval system. V. Various Application of Bioinformatics in Animal and Veterinary Sciences. VI. Pros and cons of social networks.	
METHODOLOGY	: Lectures Demos and Hands on Session.
LEVEL OF PARTICIPANTS	: PG Students and Research Scholars of MVC.
PREREQUISITES	: Knowledge of Computers Operation is preferable.
NUMBER OF PARTICIPANTS	: 25-30
EXPECTED DATE OF ANNOUNCEMENT	: 2 nd week of October, 2016

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	--	--

Training Code: [TNVASU-04]

Title	: Workshop on Computer Aided Drug Designing
Date	: 2 nd – 6 th January, 2017
Duration	: 5 Days
Subject Area	: Genome and Proteome Analysis
OBJECTIVES: To furnish the participants with an understanding of the importance of tools in Bioinformatics in Computer Aided Drug Designing (CADD) and to provide ideas to design drugs using Bioinformatics. CONTENTS: <ol style="list-style-type: none"> Bioinformatics & Application of IT for R&D. Introduction to Genomics. CADD Resources. Protein Modeling. Molecular Interaction and Analysis. Drug Designing & ADMET property analysis. Pharmacovigilance. 	
METHODOLOGY	: Lectures Demos and Hands on Session.
LEVEL OF PARTICIPANTS	: Scientist and Students.
PREREQUISITES	: Knowledge of Computers Operation is preferable.
NUMBER OF PARTICIPANTS	: 25-30
EXPECTED DATE OF ANNOUNCEMENT	: 1 st week of December, 2016
BOARDING & LODGING ARRANGEMENTS	: All participants must make their own boarding and lodging arrangement. However, accommodation may be arranged on payment basis and on first come first served basis subject to availability.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 2000.00	--

Training Code: [TNVASU-05]

Title	: <i>Workshop on Vetinformatics</i>
Date	: <i>6th – 10th March, 2017</i>
Duration	: <i>5 Days</i>
Subject Area	: <i>General Bioinformatics Training</i>
OBJECTIVES: <ul style="list-style-type: none"> • To decipher the theoretical and hands on practical knowledge in Bioinformatics and its different areas. • To increase the awareness of in-silico research works in Veterinary and Animal Sciences. 	
CONTENTS: Theory lectures and practical demonstration of the five days training program will be based on the following themes: <ol style="list-style-type: none"> Introduction to basic tools of bioinformatics. Sequence analysis and phylogeny. Comparative Genomics. Gene Annotation. Primer designing and optimization. Practical knowledge on various genome analysis tools. Practical knowledge on various proteome analysis tools. 	
METHODOLOGY	: Lectures Demos and Hands on Session.
LEVEL OF PARTICIPANTS	: Scientist and Students.
PREREQUISITES	: Knowledge of Computers Operation is preferable.
NUMBER OF PARTICIPANTS	: 25-30
EXPECTED DATE OF ANNOUNCEMENT	: 1 st week of February, 2017
BOARDING & LODGING ARRANGEMENTS	: All participants must make their own boarding and lodging arrangement. However, accommodation may be arranged on payment basis and on first come first served basis subject to availability.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 2000.00	--

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TEZPUR UNIVERSITY, TEZPUR

Training Code: [TEZU-01]

Title	: <i>Basic Bioinformatics Tools & Techniques in structural biology</i>
Date	: <i>16TH – 18th December, 2016</i>
Duration	: <i>3 Days</i>
Subject Area	: <i>Computational & Structural Bioinformatics</i>
<p>OBJECTIVES: The objective of training program is to provide exposure as well hands on training to those who are unacquainted but enthusiastic to learn the basics of Bioinformatics The workshop will provide a platform to the beginners in Bioinformatics. The workshop will be useful to students who have interest in Bioinformatics and want to make use of this powerful technique for academic and research purposes.</p> <p>CONTENTS: Basic tools in bioinformatics to analyze the structure, function and dynamics of Proteins and other macromolecules.</p>	
METHODOLOGY	: Lectures, Demos and Hands on session.
LEVEL OF PARTICIPANTS	: Research Scholars, Research Assistants, Senior Research Fellows, Junior Research Fellows, MSc & BSc students.
PREREQUISITES	: Minimum skill in operation of computer.
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: November, 2016
BOARDING & LODGING ARRANGEMENTS	: Yes for participants from distant places.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	Self-management	Self-management
SAARC	Self-management	Self-management
Other Countries	Self-management	Self-management

Training Code: [TEZU-02]

Title	: <i>Systems approach to small networks</i>
Date	: <i>3rd – 5th March, 2017</i>
Duration	: <i>3 Days</i>
Subject Area	: <i>Network Pathways & Systems Biology, Gene Mining from Big Data Biotechnology</i>
<p>OBJECTIVES: The generate awareness and encourage participants to take on the numerous challenges that Bioinformatics offers. This workshop focuses on providing hands-on training on the applications of system biology, standard analysis tools for large datasets.</p> <p>CONTENTS: The inference of networks from high dimensional genomics data ... construct models of complex biological systems and diseases.</p>	
METHODOLOGY	: Lectures, Demos and Hands on session.
LEVEL OF PARTICIPANTS	: Research Scholars, Research Assistants, Senior Research Fellows, Junior Research Fellows, MSc & BSc students.
PREREQUISITES	: Minimum skill in operation of computer.
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: February, 2017
BOARDING & LODGING ARRANGEMENTS	: Yes for the participants from distant places.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	Self-management	Self-management
SAARC	Self-management	Self-management
Other Countries	Self-management	Self-management

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TRIPURA UNIVERSITY, TRIPURA

Training Code: [TU-01]

Title	: <i>Advances in Genome Informatics</i>
Date	: 3 rd – 5 th November, 2016
Duration	: 3 Days
Subject Area	: <i>Genome and Proteome Analysis</i>
OBJECTIVES: To train the post-graduate students, research scholars and young faculty members about latest developments in the area of Genome Informatics. CONTENTS: Introduction to Basics of Bioinformatics, Biological databases, tools and techniques of comparative genomics. Various approaches to compare genome and proteomes.	
METHODOLOGY	: Classroom Training with lectures, Demonstrations and hands-on sessions.
LEVEL OF PARTICIPANTS	: Post-graduate students, research scholars and young faculty members in any area of Biological Sciences.
PREREQUISITES	: Basic knowledge in computer, Internet and fundamental Molecular Biology.
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: October, 2016
BOARDING & LODGING ARRANGEMENTS	Limited accommodation may be arranged in the University guesthouse against payment.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1,000.00	₹. 2,000.00

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UNIVERSITY OF JAMMU, JAMMU

Training Code: [UOJJ-01]

Title	: <i>Challenges in Bioinformatics, Genomics & NGS</i>
Date	: <i>21st – 22nd September, 2016</i>
Duration	: <i>2 Days</i>
Subject Area	: <i>Bioinformatics with respect to Agriculture/ Plant Sciences</i>
OBJECTIVES: The aim of the workshop is to provide a forum for presenting new strategies, technologies and concepts on Genomics/Bioinformatics and Sequencing. Major goal for this two-day workshop is to create a common platform for professionals for the exchange of ideas and to develop new research avenues in the new emerging area. CONTENTS: Day I : Lectures on Genome databases and Analysis & Hands on session. Day II : Lectures on Next Generation Sequencing, NGS platforms and techniques.	
METHODOLOGY	: Lectures & Demos.
LEVEL OF PARTICIPANTS	: Research Scholars, PG Students, University & College Faculty.
PREREQUISITES	: Funds for organizing the workshop.
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: 1 st September, 2016

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1000.00	₹. 3000.00
SAARC	₹. 3000.00	₹. 4500.00
Other Countries	₹. 5000.00	₹. 8000.00

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UNIVERSITY OF KALYANI, KALYANI

Training Code: [KALYANI-01]

Title	:	<i>Introduction to Next Generation Sequencing</i>
Date	:	<i>9th – 11th November, 2016</i>
Duration	:	<i>3 Days</i>
Subject Area	:	<i>Genome and Proteome Analysis</i>
OBJECTIVES: To get training on the Next Generation Sequencing (NGS) data analysis. CONTENTS: Introduction and conceptual basis of understanding of the NGS; NGS data retrieval and manipulation; Computational tools and techniques to analyze NGS data.		
METHODOLOGY	:	Workshop: Lectures, Demos and Hands on.
LEVEL OF PARTICIPANTS	:	Students, Researchers, Scientists and Teachers.
PREREQUISITES	:	Masters Degree in Biological Sciences.
NUMBER OF PARTICIPANTS	:	20
EXPECTED DATE OF ANNOUNCEMENT	:	One month before the scheduled date
BOARDING & LODGING ARRANGEMENTS	:	Boarding & lodging can be provided on request based on availability.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 1000.00	Separate
SAARC	₹. 1000.00	Separate
Other Countries	₹. 4000.00	Separate

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UNIVERSITY OF LUCKNOW, LUCKNOW

Training Code: [LU-01]

Title	:	<i>Molecular docking and dynamics simulation analyses</i>
Date	:	<i>21st – 22nd October, 2016</i>
Duration	:	<i>2 Days</i>
Subject Area	:	<i>Computational and Structural Bioinformatics</i>
<p>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 bioinformatical approaches for analyzing nucleotide and protein structure predictions along with dynamics of their interactions with the respective ligands in vaccum as well as in the presence of solvent.</p> <p>CONTENTS: The training is intended to cover concepts of bioinformatics. Exposure to major online repositories, free tools and some of the commercial tools, of relevance to the topic, will be provided during the training program. The topics to be discussed during the training course include 3D structure modeling of protein, post-structure analysis, active site identification, molecular docking and dynamics simulation of protein ligand complex.</p>		
METHODOLOGY	:	Lecture, demonstration as well as hands-on training will be provided to the participants
LEVEL OF PARTICIPANTS	:	Faculty, research scholars and students from colleges, universities and research organizations.
PREREQUISITES	:	Minimum skill in operation of a computer.
NUMBER OF PARTICIPANTS	:	20
EXPECTED DATE OF ANNOUNCEMENT	:	Mid of September, 2016
BOARDING & LODGING ARRANGEMENTS	:	Limited accommodation may be arranged on request on advance payment basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 2000.00	--

Training Code: [LU-02]

Title	:	<i>Basic Bioinformatics tools and techniques</i>
Date	:	<i>10th – 11th February, 2017</i>
Duration	:	<i>2 Days</i>
Subject Area	:	<i>Computational & Structural Bioinformatics</i>
<p>OBJECTIVES: The objectives of the training program is to give exposure to the participants of concepts, skills and tools of introductory bioinformatics and to provide hands on training on various bioinformatical approaches for analyzing nucleotide and protein sequences along with protein structure prediction and optimization.</p> <p>CONTENTS: The training is intended to cover concepts of bioinformatics. Exposure to major online repositories, free tools and some of the commercial tools, of relevance to the topic, will be provided during the training program. The topics to be discussed during the training course include sequence analysis, phylogenetic analysis, 3D structure modeling of protein, post-structure analysis and active site identification.</p>		
METHODOLOGY	:	Lecture, demonstration as well as hands-on training by experts will be provided to the participants.
LEVEL OF PARTICIPANTS	:	Faculty, research scholars and students from colleges, universities and research organizations.
PREREQUISITES	:	Minimum skill in operation of a computer.
NUMBER OF PARTICIPANTS	:	25
EXPECTED DATE OF ANNOUNCEMENT	:	First week of January, 2017
BOARDING & LODGING ARRANGEMENTS	:	Limited accommodation may be arranged on request on advance payment basis.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 2000.00	--

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UNIVERSITY OF NORTH BENGAL, SILIGURI, WEST BENGAL

Training Code: [UNB-01]

Title	: <i>Training on Microbial Diversity and Environment-a Bioinformatics Perspective</i>
Date	: 12 th – 14 th January, 2017
Duration	: 3 Days
Subject Area	: (7) <i>Bioinformatics with respect to Environment & Biodiversity</i>
OBJECTIVES: To familiarize the feasibilities of Bioinformatics techniques and database management in conserving the suitable bioresource.	
CONTENTS: Sequence alignment and Phylogenetic analysis.	
METHODOLOGY	: Lectures, Hands on Session and Demos.
LEVEL OF PARTICIPANTS	: Students, Research Scholars, Teachers and Young Scientists etc.
PREREQUISITES	: M.Sc with basic computer and biological knowledge.
NUMBER OF PARTICIPANTS	: 20
EXPECTED DATE OF ANNOUNCEMENT	: 18 th November, 2016
BOARDING & LODGING ARRANGEMENTS	May be arranged for outstation candidates on payment basis and prior request.

REGISTRATION FEE	Without Accommodation	With Accommodation
INDIA	₹. 500.00 (Including working lunch)	₹. 1000.00 (Including working lunch)
SAARC	₹. 500.00 (Including working lunch)	₹. 1000.00 (Including working lunch)
Other Countries	₹. 5000.00	₹. 7000.00

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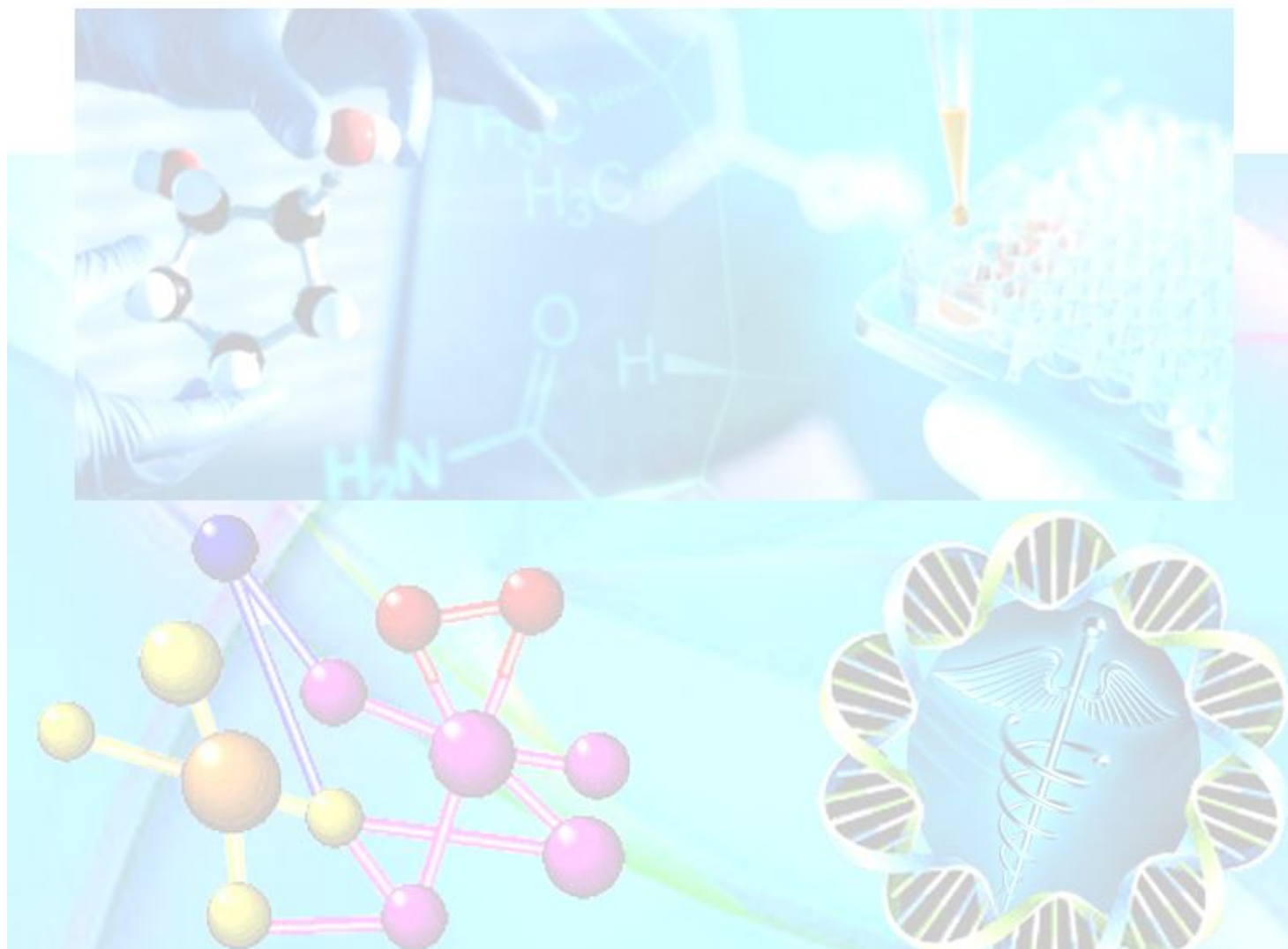
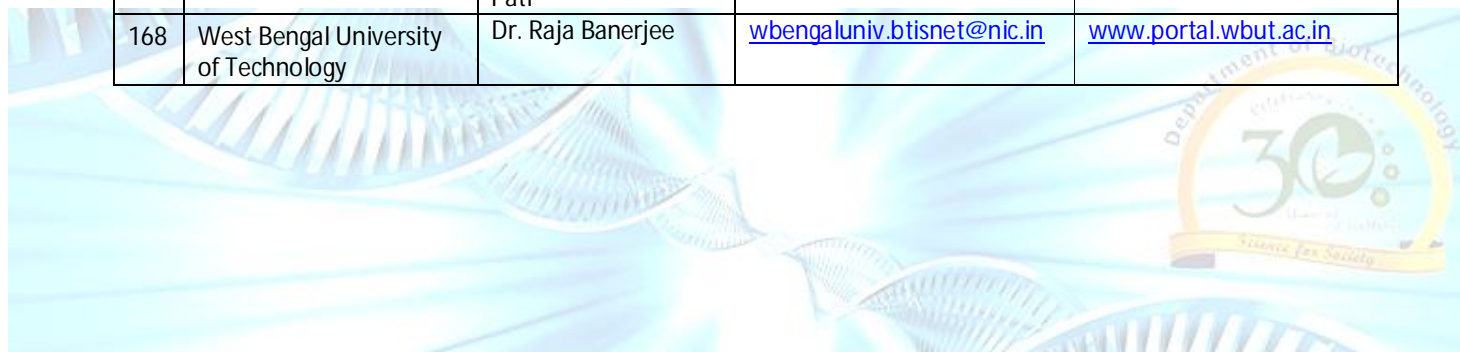
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NOMINATION FORM FOR TRAINING

Course Code :

Title of the Training :

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 :

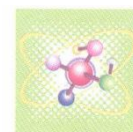
Signature of Applicant

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.



BIOINFORMATICS TRAINING CALENDAR (2015-2016) AT A GLANCE



MINISTRY OF
SCIENCE & TECHNOLOGY

Sl. No.	Name of the Center	Name of Training Programme	Date	Page Number	Period of Trg.
1.	Anna University, Chennai	1. Workshop and Training on Sequence Analysis and Molecular Simulations	20-23 December 2016		4 Days
2.	Assam Agricultural University, Guwahati	1. Application of Bioinformatics in Life Sciences Research 2. Biomolecular Interactions and Dynamics	8-11 November 2016 27-30 December 2016		4 Days 4 Days
3.	Assam University, Silchar	1. Training Programme on Computer Aided Drug Designing: Basics to Molecular Dynamics Simulation - 2 2. Workshop on Phylogenetic Analysis Using Next Generation Sequence Tools	01-07 September 2016 03-05 January 2017		7 Days 3 Days
4.	Banaras Hindu University, Varanasi	1. Applications of Bioinformatics in Agricultural and Medical Sciences 2. In silico approaches in Bioinformatics	September, 2016 January, 2017		3 Days One Week
5.	Banasthali Vidyapith, Banasthali	1. National workshop on "Protein Structure prediction and Function Analysis"	11-13 January 2017		3 Days
6.	Bharathidasan University, Tiruchirappalli	1. <i>Cyanobacterial Bioinformatics</i>	06 March 2017		2 Days
7.	Biotech Consortium India Limited (BCIL), New Delhi	1. Workshop on Key Issues in Commercialisation of Biotechnology	04 November 2016		1 Day
8.	Biotech Park in Biotechnology City, Lucknow	1. Recent Trends in Bioinformatics and Computational Biology: An Introduction 2. Emerging Trends in Bioinformatics: Big Data Analysis and Drug discovery 3. Discovering Biomarkers of Diseases: A Bioinformatics Approach	27-29 July 2016 24-26 October 2016 22-24 February 2017		3 Days 3 Days 3 Days
9.	D. M. College of Science, Imphal, Manipur	1. Gene Mining Techniques 2. Advanced trends in Molecular docking 3. Computational and System biology 4. Study of molecular biodiversity through bioinformatics 5. Molecular phylogeny and systematic analysis of indigenous fishes of Manipur	07-09 July 2016 04-06 August 2016 05-08 October 2016 03-05 November 2016 02-04 December 2016		3 Days 3 Days 4 Days 3 Days 3 Days
10.	Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, North Campus, Delhi	1. 7 th Workshop on Bioinformatics and Molecular Modeling in Drug Design	* Dec. 2016/ * Jan. 2017		3 Days
11.	Dr. Y S Parmar University of Horticulture & Forestry, Nauni Solan H.P.	1. Bioinformatics and its Application in Plants Sciences 2. Molecular Modeling and Drug Designing	03-07 October 2016 23-27 January 2017		5 Days 5 Days
12.	Dibrugarh University, Dibrugarh	1. Advance Workshop on Application of Computational & Structural Bioinformatics in Biological Research	01-06 November 2016		3 Days
13.	G. B. Pant University of Agriculture & Technology, Pantnagar	1. Addressing the complexity of Stress Biology through Hi-throughput Omics data analysis using Bioinformatics Tools	04-07 October 2016		4 Days

	Name of the Center	Name of Training Programme	Date	Page Number	Period of Trg.
14.	Gauhati University, Gauhati	1. Computational and Structural Bioinformatics 2. Bioinformatics with respect to Biodiversity	18-20 October 2016 19-21 January 2017		3 Days 3 Days
15.	Guru Jambheshwar University of Science & Technology, Hisar	1. Computational & Structural Bioinformatics 2. Bioinformatics with respect to Environment & Biodiversity 3. Gene Mining from Big Data Biotechnology (BDB)	* August 2016 * October 2016 * February 2017		3 Days 3 Days 3 Days
16.	Holy Cross College, Trichy	1. National Workshop on "Applications of Bioinformatics in Biology Teaching & Research" 2. Workshop on, "Basics of Bioinformatics for UG Life Science students" 3. National Conference on "Molecular Modelling and Drug Designing Approach"	29-31 August 2016 07-09 January 2017 29-31 January 2017		3 Days 3 Days 3 Days
17.	Indian Veterinary Research Institute, Izatnagar	1. "Basic Concepts in Bioinformatics for Beginners" 2. "Computational Approaches in Biotechnology for Beginners"	07-11 November 2016 23-27 January 2017		5 Days 5 Days
18.	Institute of Bioresources and Sustainable Development (IBSD), Imphal	1. Biological Databases & Knowledge Discovery (BDKD)	06-07 February 2017		2 Days
19.	International Centre for Genetic Engineering and Biotechnology, New Delhi	1. Introduction to modern computational approaches for high-throughput data analysis	20-21 October 2016		2 Days
20.	Jamia Hamdard University, New Delhi	1. 8 th Bioinformatics Seminar-cum-Hands-on Training 2016 on "Protein Sequence to Function Through Structural Bioinformatics"	10-11 November 2016		2 Days
21.	Karnataka Veterinary, Animal and Fisheries Sciences University, College of Fisheries, Mangalore	1. Bioinformatics and its application in marine biotechnology	19-21 January 2017		3 Days
22.	Lady Doak College, Madurai	1. Workshop on "Applications of Bioinformatics tools in Molecular Taxonomic studies"	20-24 February 2017		5 Days
23.	Manipur University, Imphal	1. Bioinformatics in Microbial diversity	12-16 December 2016		5 Days
24.	Mizoram University, Aizawl	1. Analysis of Genetic Variations in Cancer 2. Next Generation Sequencing – Concepts and Data Analysis 3. Methods in Molecular Phylogeny	02-06 August 2016 04-08 October 2016 20-24 February 2017		5 Days 5 Days 5 Days
25.	National Institute of Plant Genome Research, New Delhi	1. Comparative Plant Genomics	09-10 March 2017		2 Days
26.	North Eastern Hill University, Nehu Campus, Shillong	1. A Soft Computing Approach in Molecular Phylogenetics: Analysis and Reuse of Public domain data	18-20 February 2017		3 Days
27.	Presidency College, Chennai	1. Application of Bioinformatics in Computational and Structural Biology	27-29 September 2016		3 Days

	Name of the Center	Name of Training Programme	Date	Page Number	Period of Trg.
28.	S. Kula Women's College, Manipur	1. Plant genomic analysis 2. Bioinformatics in Biodiversity 3. Bioinformatics in Agriculture	08-12 August 2016 20-24 December 2016 27-31 March 2017		5 Days 5 Days 5 Days
29.	St. Anthony's College, Shillong	1. Workshop on Linux and Perl programming for Biologists 2. Workshop on R programming for Genomics Application	22-26 August 2016 21-23 September 2016		5 Days 3 Days
30.	Sant Gadge Baba Amravati University, Amravati, Maharashtra	1. Workshop cum Training Program on "Computer Aided Drug Design and Molecular Docking" 2. Workshop on Bioinformatics and Biostatistics	22-23 September 2016 17-18 January 2017		2 Days 2 Days
31.	Sikkim State Council of Science & Technology, East Sikkim	1. Computational R-Bioinformatics and PERL Programming 2. Bioinformatics in Genomics & Proteomics Researches	05-10 September 2016 21-23 February 2017		6 Days 3 Days
32.	Sri Venkateswara Institute of Medical Sciences University, Tirupati	1. Sixth National Seminar on Bioinformatics	21-22 October 2016		2 Days
33.	Tamilnadu Veterinary and Animal Science University, Chennai	1. Workshop on Application of Bioinformatics in Genome Analysis 2. Workshop on Application of Bioinformatics in Proteome Analysis 3. Workshop on Information Retrieval System in PG Research 4. Workshop on Computer Aided Drug Designing 5. Workshop on Vetinformatics	08-12 August 2016 19-23 September 2016 14-18 November 2016 02-06 January 2017 06-10 March 2017		5 Days 5 Days 1 in 5 Batches 5 Days 5 Days
34.	Tezpur University, Tezpur	1. Basic Bioinformatics Tools & Techniques in structural biology	16-18 December 2016		3 Days
35.	Tripura University, Tripura	1. Advances in Genome Informatics	03-05 November 2016		3 Days
36.	University of Jammu, Jammu	1. Challenges in Bioinformatics, Genomics & NGS	21-22 September 2016		2 Days
37.	University of Kalyani, Kalyani	1. Introduction to Next Generation Sequencing	09-11 November 2016		3 Days
38.	University of Lucknow, Lucknow	1. Molecular docking and dynamics simulation analyses 2. Basic Bioinformatics tools and techniques	21-22 October 2016 10-11 February 2017		2 Days 2 Days
39.	University of North Bengal, Siliguri, West Bengal	1. Training on Microbial Diversity and Environment-a Bioinformatics Perspective	12-14 January 2017		3 Days

* Date is yet to be decided.