

## CENTRES OF EXCELLENCE IN BIOINFORMATICS (CoEs) & BTIC

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**LIST OF  
TRAININGS/  
SYMPOSIA/  
WORKSHOPS**

**LIST OF TRAININGS/WORKSHOPS**

| <b>S. No</b>                             | <b>Training/Workshop</b>                                   | <b>Code No.</b> | <b>Page No.</b> |
|--|--|-----------------|-----------------|
| <b>I Bioinformatics and Applications</b> |  |                 |                 |
| 1.                                       | Retrieval of Bioinformatics Resources and Databases        | BANV - 01       |                 |
| 2.                                       | Granthalaya Library Automation                             | EU - 01         |                 |
| 3.                                       | Bioinformatics and sequence analysis                       | EU - 02         |                 |
| 4.                                       | Bioinformatics: Tools and applications                     | EP - 01         |                 |
| 5.                                       | Web management and Linux applications in Bioinformatics    | EP - 04         |                 |
| 6.                                       | Workshop on Commercialisation of Biotechnology             | BCIL - 01       |                 |
| 7.                                       | Biological Sequence Analysis                               | BISR - 01       |                 |
| 8.                                       | Advances in Biotechnology and Bioinformatics               | CPCRI - 01      |                 |
| 9.                                       | Advances in Biotechnology and Bioinformatics               | CPCRI - 01      |                 |
| 10.                                      | Career planning in bioinformatics                          | CSRII - 01      |                 |
| 11.                                      | Workshop on Bioinformatics                                 | CSRII - 02      |                 |
| 12.                                      | Fundamentals and role of computers in Bioinformatics       | CSKKV - 02      |                 |
| 13.                                      | IPR Awareness Workshops                                    | YSPUHF - 01     |                 |
| 14.                                      | Bioinformatics Basics - Application in Biological Sciences | YSPUHF - 03     |                 |
| 15.                                      | Bioinformatics and Information Technology                  | DAVV - 01       |                 |
| 16.                                      | Bioinformatics and its applications                        | DAVV - 02       |                 |
| 17.                                      | Application of Linux in Bioinformatics and Biocomputing    | HPU - 02        |                 |
| 18.                                      | Internet and information on networks in Bioinformatics     | IARI - 04       |                 |

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|-----|---|-------------|
| 19. | Bioinformatics Databases and Accession  | IVRI - 01   |
| 20. | Bioinformatics Databases and Accession  | IVRI - 02   |
| 21. | Application of Linux in bioinformatics  | KAU - 01    |
| 22. | Emerging trends in bioinformatics   | KAU - 03    |
| 23. | National Conference on Botanic Gardens of India                               | NBRI - 01   |
| 24. | Computer and Internet Applications in Bioresource Development                 | NEHU - 02   |
| 25. | Bioinformatics: Applications in Biotechnology                                 | PAU - 01    |
| 26. | Training programme on "Bioinformatics and Information Technology              | TNVASU - 01 |
| 27. | Workshop on Phylogenetic Analysis   | DUSC - 01   |
| 28. | Bioinformatics: Computer methods in Biology                                   | KU - 01     |
| 29. | Knowledge Discovery in Life Sciences: Structure based Bioinformatics Approach | PUNE - 01   |

## II Applied Bioinformatics

- |     |   |            |
|-----|---|------------|
| 30. | Workshop on Bioinformatics for Cyanobacteriologists - WOBIC   | BUT - 01   |
| 31. | Bioinformatics & Statistics in Aquaculture  | CIFA - 01  |
| 32. | Workshop on Biotechnology and Bioinformatics in Sericulture   | CSRII - 03 |
| 33. | Simulation tools for Agri & Bio-processes understanding   | IARI - 02  |
| 34. | Workshop on "Bio & Agri-informatics linkages with the decision tools for resource management and production estimates | IARI - 03  |
| 35. | Bioinformatics: Impact on Biotechnology and Medicine in India   | IISc - 01  |
| 36. | Biotechnology and Bioinformatics: Applications in agricultural research   | IISR - 01  |

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|-----|--|------------|
| 37. | Applications of Bioinformatics in Agricultural Research    | KAU - 02   |
| 38. | Workshop on Medical Informatics                            | MGIMS - 01 |
| 39. | Computational Neuroscience Workshop                        | NBRC - 01  |
| 40. | Genetic Biodiversity Analysis tools and their applications | PAU - 02   |
| 41. | Databases and its applications in Agriculture              | TAU - 01   |
| 42. | Application of Bioinformatics in Aquatic Sciences          | UAS - 01   |

### III. Bioinformatics in Genomics and Proteomics

- |     |  |             |
|-----|--|-------------|
| 43. | Applications in Bioinformatics with reference to Genomics & Proteomics | ACTREC - 01 |
| 44. | Workshop on molecular modeling   | AJ - 01     |
| 45. | Genomics & Proteomics approaches for Drug development                  | BP - 03     |
| 46. | Bioinformatics: Genomics and Proteomics applications                   | BISR - 02   |
| 47. | Genomics & Molecular modeling in plantation crops                      | CPCRI - 02  |
| 48. | Bioinformatics & plant genomics  | CSKKV - 01  |
| 49. | Tools & techniques for protein structure & drug designing              | HPU - 01    |
| 50. | Bioinformatics, Genomics, Proteomics, Computational Biology            | IITD - 01   |
| 51. | Workshop on "Bioinformatics in Genomics & Proteomics                   | IITK - 01   |
| 52. | Bioinformatics in post genomic era                                     | IICB - 01   |
| 53. | Functional genomics and proteomics research                            | IIS - 01    |
| 54. | Machine learning techniques in functional proteomics                   | IMT - 01    |
| 55. | Bioinformatics for functional genomics studies                         | MSUB - 01   |

- |     |  |           |
|-----|--|-----------|
| 56. | Bioinformatics and Functional Genomics | FU - 01   |
| 57. | Bioinformatics in Drug Discovery       | RRLJ - 01 |
| 58. | Genomics and Genome Annotation         | TAU - 02  |

#### IV. Computational Biology

- |     |  |            |
|-----|--|------------|
| 59. | Application of bioinformatics in molecular and structural biology          | BI - 01    |
| 60. | In-Silico study of protein and protein structure                           | BU - 03    |
| 61. | Short term training programme in Computational Biology and Bioinformatics  | JNU - 01   |
| 62. | Training programme in Computational Biology & Bioinformatics               | JNU - 02   |
| 63. | Post Doctoral training programme in Computational Biology & Bioinformatics | JNU - 03   |
| 64. | Algorithmic approaches in gene and genome sequence analysis                | JNU - 04   |
| 65. | Molecular Modeling   | MKU - 01   |
| 66. | Application of Molecular Graphics  | MKU - 02   |
| 67. | Trends in computational biology  | NDRI - 01  |
| 68. | Workshop on Molecular Modeling   | RGCB - 01  |
| 69. | Computational biology & introduction in biogrid                            | SCSIS - 01 |

#### V. Bioinformatics Developmental Activities

- |     |  |             |
|-----|--|-------------|
| 70. | Building of Biological Databases                                   | BP - 02     |
| 71. | Creation and Management of Databases                               | YSPUHF - 02 |
| 72. | Creation & Management of Databases in Crops                        | GBPUAT - 01 |
| 73. | Training cum workshop on information management in botanic gardens | NERI - 02   |
| 74. | Database creation & Internet in Biological applications            | NEHU - 01   |

75. Marine Biodiversity data management and computer aided taxonomy NIO - 01
76. Workshop on interlinking of related biodiversity databases TBGRI - 01
77. Advance training on digitalization of plant biodiversity data TBGRI - 02

## VI. International Workshop/Conference on Bioinformatics

78. International workshop on the establishment of GBIF - India Network NBRI - 03



**TRAINING  
PROGRAMMES  
CENTRE WISE  
DETAILS OF  
COURSES**

**ACTREC, Navi Mumbai**

Training Code No. : ACTREC-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Applications in Bioinformatics with reference to Genomics & Proteomics |
| <b>Date</b>         | : 9 <sup>th</sup> - 10 <sup>th</sup> March, 2006                         |
| <b>Duration</b>     | : 2 days   |
| <b>Subject Area</b> | : Genomics/Proteomics  |

|                               |   |
|-------------------------------|---|
| <b>OBJECTIVES</b>             | : To train potential teaching faculties/scientists in bioinformatics utility. |
| <b>CONTENTS</b>               | : Basics of Bioinformatics/example based applications                         |
| <b>METHODOLOGY</b>            | : Lectures and Hands on session.  |
| <b>LEVEL OF PARTICIPANTS</b>  | : Post M.Sc.  |
| <b>PRE-REQUISITES</b>         | : Familiarity to Computer.  |
| <b>NUMBER OF PARTICIPANTS</b> | : 20  |
| <b>REGISTRATION FEE</b>       | :   |

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 500/-             |                    |
| SAARC Countries   |                       |                    |
| Other Countries   |                       |                    |

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|--------------------|---|
| <b>Phone</b>       | : 022-27405000  |
| <b>Fax</b>         | : 022-27412894  |
| <b>Email</b>       | : btis@actrec.res.in  |
| <b>Web Address</b> | : <a href="http://www.actrec.res.in">http://www.actrec.res.in</a> |

**Anna University, Chennai**

Training Code No. : AU-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Workshop on Molecular Modeling   |
| <b>Date</b>         | : 01 <sup>st</sup> - 04 <sup>th</sup> December, 2005   |
| <b>Duration</b>     | : 4 days   |
| <b>Subject Area</b> | : Retrieval of Bioinformatics Resources/Databases<br>Bioinformatics - Driving Drug Discovery<br>Molecular Modeling |

|                               |   |
|-------------------------------|---|
| <b>OBJECTIVES</b>             | : To give training in Molecular Modeling and Bioinformatics tools.                                      |
| <b>CONTENTS</b>               | : Molecular modeling, Molecular Dynamics, Docking, Quantum Mechanical Procedures in Molecular Modeling. |
| <b>METHODOLOGY</b>            | : Lectures, Demos, Hands on Session & Projects.   |
| <b>LEVEL OF PARTICIPANTS</b>  | : Scientists, Research Scholars and Professionals.  |
| <b>PRE-REQUISITES</b>         | : Nil   |
| <b>NUMBER OF PARTICIPANTS</b> | : 20  |
| <b>REGISTRATION FEE</b>       | :   |

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 1500/-            | -                  |

**Contact Address**

DR. P. GAUTAM, Coordinator

|                    |   |
|--------------------|---|
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| <b>Email</b>       | : tkothai@annauniv.edu  |
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**Banasthali Vidyapith, Banasthali**

Training Code No. : BANV-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Retrieval of Bioinformatics Resources and Databases  |
| <b>Date</b>         | : 18 <sup>th</sup> - 20 <sup>th</sup> February, 2006   |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Networks & Applications in Bioinformatics<br>Retrieval of Bioinformatics Resources/Databases |

- OBJECTIVES** :
- 1 Introduction of Bioinformatics with respect to biological databases.
  - 2 To promote awareness and skills, using online and offline information retrieval using internet and CD-ROMs databases and scientific softwares and their applications in teaching and research in Biological sciences.
  - 3 To promote training in the latest developments in biological databases.
- CONTENTS** :
- Theory lectures and practical demonstration of three days workshop will be based on the following themes:
- 1 Introduction to biological databases
  - 2 Biological resources in the cyber space
  - 3 Retrieval of data from biological databases
  - 4 Access to online journals
- METHODOLOGY** :
- The three day workshop will include theory lectures and live practical demonstrations on biological resources on internet by the experts as well as handouts on sessions.
- LEVEL OF PARTICIPANTS** :
- Ph.D. and Post Ph.D. Students, University teachers and scientists.
- PRE-REQUISITIES** :
- Nil
- NUMBER OF PARTICIPANTS** : 30

## REGISTRATION FEE :

| Participants<br>from | Course Fee               |                       |
|----------------------|--------------------------|-----------------------|
|                      | Without<br>Accommodation | With<br>Accommodation |
| India                | Rs. 500/-                | Rs. 750/-             |
| SAARC Countries      | Rs. 500/-                | Rs. 750/-             |
| Other Countries      | Rs. 1000/-               | Rs. 1500/-            |

Contact Address

PROFESSOR VINAY SHARMA, Coordinator

|                      |  |
|----------------------|--|
| <b>Phone</b> :       | 01438-228302, 228341 Ext. 380 (O)                  |
| <b>Fax</b> :         | 01438-228365                                       |
| <b>Email</b> :       | vinaysharma30@yahoo.co.uk<br>ban_bioinfo@yahoo.com |
| <b>Web Address</b> : | www.banasthali.ac.in                               |

**Barkatullah University, Bhopal**

Training Code No. : BU-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Granthalaya Library Automation           |
| <b>Date</b>         | : 21 <sup>st</sup> April, 2005             |
| <b>Duration</b>     | : 1 day                                    |
| <b>Subject Area</b> | : Computer Basics & Information Technology |

|                               |   |
|-------------------------------|---|
| <b>OBJECTIVES</b>             | : To give the training to the library personnel and information professionals on library automations  |
| <b>CONTENTS</b>               | : Introduction to E-granthalaya software, using e-granthalaya software for library resources, storage and retrieval accessing the library resources |
| <b>METHODOLOGY</b>            | : Lectures, Demos and Hands on session.   |
| <b>LEVEL OF PARTICIPANTS</b>  | : Library personnel & Information professionals.  |
| <b>PRE-REQUISITES</b>         | : Introductory computer operation   |
| <b>NUMBER OF PARTICIPANTS</b> | : 20  |
| <b>REGISTRATION FEE</b>       | : Nil   |

Training Code No. : BU-02

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Bioinformatics and Sequence Analysis                |
| <b>Date</b>         | : 22 <sup>nd</sup> - 23 <sup>rd</sup> September, 2005 |
| <b>Duration</b>     | : 2 days  |
| <b>Subject Area</b> | : Biocomputing  |

|                               |   |
|-------------------------------|---|
| <b>OBJECTIVES</b>             | : General awareness in Bioinformatics and role of bioinformatics in sequence analysis               |
| <b>CONTENTS</b>               | : Introduction to Bioinformatics, Sequence comparison, Sequence homology, search tool BLAST & FASTA |
| <b>METHODOLOGY</b>            | : Lecture and Hands on session.   |
| <b>LEVEL OF PARTICIPANTS</b>  | : Students, Research scholars, Faculties and Scientists   |
| <b>PRE-REQUISITES</b>         | : Basic knowledge of computer operation & Internet use  |
| <b>NUMBER OF PARTICIPANTS</b> | : 20  |
| <b>REGISTRATION FEE</b>       | : Rs. 500/-   |

Training Code No. : BU-03

|                     |  |
|---------------------|--|
| <b>Title</b>        | : In-Silico Study of Protein and Protein Structure   |
| <b>Date</b>         | : 15 <sup>th</sup> - 17 <sup>th</sup> December, 2005 |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Bioinformatics and Biocomputing                    |

|                               |   |
|-------------------------------|---|
| <b>OBJECTIVES</b>             | : Training on study of protein sequence and structure using computer  |
| <b>CONTENTS</b>               | : Protein sequence analysis, Protein structure study, Protein Structure visualization, protein engineering, Visualization software tool: freely available and Hyperchem |
| <b>METHODOLOGY</b>            | : Lectures, Demonstration & Hands on session.   |
| <b>LEVEL OF PARTICIPANTS</b>  | : PG Students, Research scholars, Faculties, Scientists.  |
| <b>PRE-REQUISITES</b>         | : Basic knowledge of computer operation.  |
| <b>NUMBER OF PARTICIPANTS</b> | : 20  |
| <b>REGISTRATION FEE</b>       | : Rs. 500/-   |

**Contact Address**

**DR. ANIL PRAKASH**, Coordinator

|              |   |                          |
|--------------|---|--------------------------|
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| <b>Email</b> | : | head_biotechmp@mp.nic.in |



**Eharathidasan University, Tiruchirappalli**

Training Code No. : BUT-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Workshop on 'Bioinformatics for Cyanobacteriologists - WOBIC'  |
| <b>Date</b>         | : 20 <sup>th</sup> - 25 <sup>th</sup> February, 2006   |
| <b>Duration</b>     | : 6 days   |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics<br>Bioinformatics & Biocomputing<br>Cyanobacterial Bioinformatics |

**OBJECTIVES** : To develop human resource in the field of cyanobacterial bioinformatics.

**CONTENTS** :

**METHODOLOGY** : Lectures and Hands on session - Workshop

**LEVEL OF PARTICIPANTS** : Scholars and Researchers

**PRE-REQUISITES** : Applicants should be working in cyanobacteriology.

**NUMBER OF PARTICIPANTS** : 10

**REGISTRATION FEE** : Nil

**Contact Address**

**DR. L. UMA**, Coordinator

|                    |   |                    |
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| <b>Web Address</b> | : | www.nfmc.res.in    |

**Biotech Consortium India Limited, New Delhi**

Training Code No. : BCIL-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Workshop on commercialization of Biotechnology |
| <b>Date</b>         | : 24 <sup>th</sup> February, 2006                |
| <b>Duration</b>     | : 1 day  |
| <b>Subject Area</b> | : Technology Transfer                            |

- OBJECTIVES**
- : Orienting representatives of industries, academia, research institutions to commercial aspects including various issues involved in (i) technology and know-how evaluation transfer, (ii) highlighting critical components of drafting comprehensive license agreements and contracts, (iii) strategies for maximizing intellectual assets through well planned IPR strategies, (iv) Compliance with the necessary licensing and, (v) regulatory requirements and financing options available would also be addressed
- CONTENTS**
- : Business opportunities and key issues concerning commercialization of biotechnology including technology and know-how evaluation, drawing up contracts and licenses, maximising intellectual assets through patenting regulatory requirements and financing options.
- METHODOLOGY**
- : Presentations by experts followed by case studies and panel discussions.
- LEVEL OF PARTICIPANTS**
- : Senior representatives from industry, research institutions, financial institutions and government departments.

**PRE-REQUISITES** : Should be actively engaged in biotechnology research/development and commercialization.

**NUMBER OF PARTICIPANTS** : 70-100

**REGISTRATION FEE** :

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 6000/-            | Not Applicable     |
| SAARC Countries   | Rs. 6000/-            | Not Applicable     |
| Other Countries   | Rs. 6000/-            | Not Applicable     |

Contact Address

DR. S.R. NAIR, Coordinator

|                      |   |
|----------------------|---|
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| <b>Fax</b> :         | 011-23219063  |
| <b>Email</b> :       | bcildelhi@vsnl.com  |
| <b>Web Address</b> : | <a href="http://www.biotech.co.in">http://www.biotech.co.in</a> |

**Biotech Park in Biotechnology City, Lucknow**

Training Code No. : BP-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Bioinformatics: Tools and applications   |
| <b>Date</b>         | : 18 <sup>th</sup> - 20 <sup>th</sup> May, 2005  |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics<br>Retrieval of Bioinformatics Resources/Databases<br>Network & Applications in Bioinformatics<br>Bioinformatics & Biocomputing |

**OBJECTIVES** : To update communication and information retrieval skills of biotechnology professional by exposing them to internet based bioinformatics and services.

**CONTENTS** : Internet tools, search engines, bioinformatics resources - offline and online tools, sequence and pattern matching.

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

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

**PRE-REQUISITES** : Minimum science graduate

**NUMBER OF PARTICIPANTS** : 20

**REGISTRATION FEE** :

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 2000/-            | -                  |

Training Code No. : BP-02

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Building of biological databases   |
| <b>Date</b>         | : 17 <sup>th</sup> - 19 <sup>th</sup> August, 2005   |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Retrieval of Bioinformatics Resources/Databases<br>Bioinformatics & Biocomputing<br>Databases/Software developmental activities in<br>Bioinformatics |

**OBJECTIVES** : To generate awareness among research and academic personnel about the database management system with special reference to biological science

**CONTENTS** : Introduction to database management system, Offline & Online biological databases, retrieval of information, search tools

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

**LEVEL OF PARTICIPANTS** : Scientists, Researchers, Professionals, Post graduate students in biological/chemical/medical/engineering discipline

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 20

**REGISTRATION FEE** :

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 2000/-            | -                  |

Training Code No. : BP-03

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Genomics & Proteomics approaches for drug development |
| <b>Date</b>         | : 21 <sup>st</sup> - 25 <sup>th</sup> November, 2005    |
| <b>Duration</b>     | : 5 days  |
| <b>Subject Area</b> | : Bioinformatics in Genomics & Proteomics               |

**OBJECTIVES** : To impart high level training to participants in niche areas like drug development to meet the requirement of drug & pharmaceutical industry.

**CONTENTS** : 1 Introduction to Bioinformatics with special reference to genomics & proteomics, sequence databases and search techniques for gene, protein identification techniques.  
2 Introduction to drug life cycle, stages to drug discovery, strategic issues to drug discovery, identification of lead molecules, preclinical and clinical development of drugs, bioethics and patent consideration, software for drug designing.

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

**LEVEL OF PARTICIPANTS** : Scientists, Research fellows and Graduate/Post graduate students in Engineering/Medical/Biological/Chemical sciences

**PRE-REQUISITES** : Minimum science graduate

**NUMBER OF PARTICIPANTS** : 20

**REGISTRATION FEE** :

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 5000/-            | -                  |

Training Code No. : BP-04

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Web management and Linux applications in Bioinformatics  |
| <b>Date</b>         | : 08 <sup>th</sup> - 09 <sup>th</sup> February, 2006   |
| <b>Duration</b>     | : 2 days   |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics<br>Networks & Applications in Bioinformatics<br>Retrieval of Bioinformatics Resources/Databases<br>Bioinformatics & Computing |

**OBJECTIVES** : To provide hands on training on basics of website development and to familiarize the researchers with Linux applications in bioinformatics.

**CONTENTS** : Website development and management, Intro duction to dream weaver, Flash, Linux introduc tion, networking, bioinformatics software resources in Linux.

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

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

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 20

**REGISTRATION FEE** :

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 1000/-            | -                  |

Contact Address**DR. P. K. SETH**, Coordinator

|                    |   |                             |
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| <b>Fax</b>         | : | 0522-2365755                |
| <b>Email</b>       | : | info@biotechcitylucknow.org |
| <b>Web Address</b> | : | www.biotechcitylucknow.org  |



**Birla Institute of Scientific Research, Jaipur**

Training Code No. : BISR-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Biological Sequence Analysis                        |
| <b>Date</b>         | : 14 <sup>th</sup> - 16 <sup>th</sup> September, 2005 |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Bioinformatics and Biocomputing                     |

- OBJECTIVES** : Providing exposure to the tools and techniques used for analyzing DNA and protein tools.
- CONTENTS** : Introduction to bioinformatics, Biological databases: Primary & Secondary, Biological Database Searching Techniques, Sequence Alignment: pairwise and multiple, BLAST & FASTA methods, protein structure prediction, Biomolecular Structure Visualization, Phylogenetics. Both free and commercial tool will be taught.
- METHODOLOGY** : Lectures, Demonstrations and Hands on session.
- LEVEL OF PARTICIPANTS** : M.Sc. and above.
- PRE-REQUISITES** : Prior knowledge of computer operation
- NUMBER OF PARTICIPANTS** : 40
- REGISTRATION FEE** : Rs. 1200/-

Training Code No. : BISR-02

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Bioinformatics: Genomics and Proteomics Application |
| <b>Date</b>         | : 11 <sup>th</sup> - 13 <sup>th</sup> January, 2006   |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Genomics/Proteomics                                 |

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

**CONTENTS** : Introduction to bioinformatics, molecular genetics, information resources and databases, computational genomics, gene identification methods, strategies of genome sequencing, genomics application in drug discovery, proteomics introduction, analysing proteome using image master, protein structure prediction, mass spectroscopy. Both free and commercial tool will be taught.

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

**LEVEL OF PARTICIPANTS** : M.Sc. and above.

**PRE-REQUISITES** : Prior knowledge of computer operation

**NUMBER OF PARTICIPANTS** : 40

**REGISTRATION FEE** : Rs. 1200/-

\_\_\_\_\_  
Contact Address

**DR. P. GHOSH**, Coordinator

|                    |   |                      |
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| <b>Fax</b>         | : | 0141-2385121         |
| <b>Email</b>       | : | rahul@bisrjaipur.com |
| <b>Web Address</b> | : | www.bisrjaipur.com   |

**Bose Institute, Kolkata**

Training Code No. : BI-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Application of Bioinformatics in molecular and structural biology                               |
| <b>Date</b>         | : 08 <sup>th</sup> - 09 <sup>th</sup> January, 2006   |
| <b>Duration</b>     | : 2 days  |
| <b>Subject Area</b> | : Bioinformatics & Biocomputing<br>Genomics/Proteomics<br>Bioinformatics - Driving Drug Discovery |

**OBJECTIVES** : To expose researchers on the different bioinformatics tools in the area of molecular and structural biology.

**CONTENTS** :

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

**LEVEL OF PARTICIPANTS** : Researchers and Academicians

**PRE-REQUISITES** : Researchers and Academicians

**NUMBER OF PARTICIPANTS** : 40

**REGISTRATION FEE** :

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 1000/-            | Rs. 2000/-         |
| SAARC Countries   |                       |                    |
| Other Countries   |                       |                    |

\_\_\_\_\_  
Contact Address

**Prof. P. CHAKRABARTI**, Coordinator

|                    |   |   |
|--------------------|---|---|
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| <b>Fax</b>         | : | 033-23343886  |
| <b>Email</b>       | : | dicdbt@boseinst.ernet.in  |
| <b>Web Address</b> | : | <a href="http://www.boseinst.ernet.in/bic">http://www.boseinst.ernet.in/bic</a> |

## Central Institute of Freshwater Aquaculture, Bhubaneswar

Training Code No. : CIFA-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Bioinformatics & Statistics in Aquaculture         |
| <b>Date</b>         | : 07 <sup>th</sup> - 10 <sup>th</sup> February, 2006 |
| <b>Duration</b>     | : 4 days   |
| <b>Subject Area</b> | : Bioinformatics & Statistics in Aquaculture         |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To familiarize the application of bioinformatics and statistics in aquaculture research. |
| <b>CONTENTS</b>               | : Bioinformatics and Statistics.   |
| <b>METHODOLOGY</b>            | : Workshop cum training through Lectures, Demos and Hands on training.                     |
| <b>LEVEL OF PARTICIPANTS</b>  | : Researcher and development workers in Aquaculture/ Life Sciences.                        |
| <b>PRE-REQUISITES</b>         | : M.Sc. Bioinformatics/ Life Science/ Zoology/ M.F.Sc.                                     |
| <b>NUMBER OF PARTICIPANTS</b> | : 25   |
| <b>REGISTRATION FEE</b>       | :  |

| Participants from | Course Fee            |                        |
|-------------------|-----------------------|------------------------|
|                   | Without Accommodation | With Accommodation     |
| India             | Rs. 1500/-            | Extra Rs. 12/- per day |

Contact Address

**DR. A. K. ROY**, Coordinator

|                    |  |
|--------------------|--|
| <b>Phone</b>       | : 0674-2465430   |
| <b>Fax</b>         | : 0674-2465407   |
| <b>Email</b>       | : <a href="mailto:cifa@ri.nic.in">cifa@ri.nic.in</a>                 |
| <b>Web Address</b> | : <a href="http://www.stph.soft.net/cifa">www.stph.soft.net/cifa</a> |

**Central Plantation Crops Research Institute,  
Kasaragod**

Training Code No. : CPCRI-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Advances in Biotechnology & Bioinformatics     |
| <b>Date</b>         | : 05 <sup>th</sup> - 09 <sup>th</sup> July, 2005 |
| <b>Duration</b>     | : 5 days   |
| <b>Subject Area</b> | : Bioinformatics & Biocomputing<br>Biotechnology |

- OBJECTIVES** :
- 1 To familiarize the researchers in the field of biotechnology & bioinformatics.
  - 2 To provide hands on training on Molecular techniques.
  - 3 To provide hands on experience on QTL mapping & softwares.
- CONTENTS** :
- 1 RAPD, SSR, ISSR - Molecular Markers Techniques
  - 2 QTL Mapping & QTL Mapping Softwares
  - 3 Tools for Genome Analysis
- METHODOLOGY** : Lectures, Demos and Hands on sessions.
- LEVEL OF PARTICIPANTS** : Researcher and Students.
- PRE-REQUISITES** : Nil
- NUMBER OF PARTICIPANTS** : 10-15
- REGISTRATION FEE** :

| Participants from | Course Fee                            |  |
|-------------------|---------------------------------------|--|
|                   | Without Accommodation                 | With Accommodation   |
| India             | Rs. 500/-<br>(For students Rs. 250/-) | Accommodation charges will be collected as per ICAR norms in addition to course fee. |

Training Code No. : CPCRI-02

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Genomics & Molecular Modeling in Plantation Crops  |
| <b>Date</b>         | : 15 <sup>th</sup> - 20 <sup>th</sup> November, 2005 |
| <b>Duration</b>     | : 6 days   |
| <b>Subject Area</b> | : Genomics/Proteomics                                |

**OBJECTIVES** :

- 1 To familiarize the researchers in the field of microbial and fungal genomics.
- 2 To provide hands on training on computer aided pesticide designing.
- 3 To provide hands on experience on molecular modeling software.

**CONTENTS** :

- 1 Computer aided pesticide designing
- 2 Molecular Modeling (Protein Modeling & Protein Structure homology)
- 3 Comparative Genomics
- 4 Fungal Genomics
- 5 Microbial Bioinformatics

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

**LEVEL OF PARTICIPANTS** : Researchers and Students.

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 10-15

**REGISTRATION FEE** :

| Participants from | Course Fee                            |  |
|-------------------|---------------------------------------|--|
|                   | Without Accommodation                 | With Accommodation   |
| India             | Rs. 500/-<br>(For students Rs. 250/-) | Accommodation charges will be collected as per ICAR norms in addition to course fee. |

Contact Address

**DR. V. RAJAGOPAL**, Coordinator

|                    |   |                         |
|--------------------|---|-------------------------|
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| <b>Email</b>       | : | bioinfpcpri@yahoo.co.uk |
| <b>Web Address</b> | : | www.bioinfpcpri.org     |

## Central Sericultural Research and Training Institute, Mysore

Training Code No. : CSRTI-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Career Planning in Bioinformatics                |
| <b>Date</b>         | : May/ June, 2005 (Dates are not yet finalized)    |
| <b>Duration</b>     | : 2 days   |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics |

**OBJECTIVES** : To create awareness among 10+2 students for shaping their career in Bioinformatics.

**CONTENTS** : Career planning and decision making. HRD skills and applications for learning bioinformatics. Introduction to biotechnology, Information technology & bioinformatics.

**METHODOLOGY** : Lectures, Demonstrations and Hands on sessions.

**LEVEL OF PARTICIPANTS** : Students studying or completed PUC (10+2) Science.

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 30

**REGISTRATION FEE** :

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 250/-             | -                  |



Training Code No. : CSRTI-02

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Workshop on Bioinformatics                 |
| <b>Date</b>         | : August, 2005 (Dates are not yet finalized) |
| <b>Duration</b>     | : 2 days                                     |
| <b>Subject Area</b> | : Bioinformatics & Biocomputing              |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To create awareness among B.Sc. and B.Tech. graduates.   |
| <b>CONTENTS</b>               | : Computer applications, biotechnology, bioinformatics tools and techniques, Advances in Seribiotechnology |
| <b>METHODOLOGY</b>            | : Lectures and Demonstrations  |
| <b>LEVEL OF PARTICIPANTS</b>  | : Students, Scientists, Research scholars  |
| <b>PRE-REQUISITES</b>         | : Nil  |
| <b>NUMBER OF PARTICIPANTS</b> | : 30   |
| <b>REGISTRATION FEE</b>       | :  |

| Participants from | Course Fee   |                    |
|-------------------|--|--------------------|
|                   | Without Accommodation                              | With Accommodation |
| India             | Rs. 250/- (For Students)<br>Rs. 600/- (For others) | -                  |

Training Code No. : CSRTI-03

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Workshop on Biotechnology and Bioinformatics in Sericulture |
| <b>Date</b>         | : December, 2005 (Dates are not yet finalized)                |
| <b>Duration</b>     | : 2 days  |
| <b>Subject Area</b> | : Bioinformatics & Biocomputing                               |

**OBJECTIVES** : To create awareness among Sericulture Scientists about Seribiobioinformatics

**CONTENTS** : Biotechnology, Bioinformatics tools and techniques

**METHODOLOGY** : Lectures and Demonstrations.

**LEVEL OF PARTICIPANTS** : Scientists working in the field of Sericulture Biotechnology and applications.

**PRE-REQUISITES** : Scientists working in the field of Sericulture Biotechnology and applications.

**NUMBER OF PARTICIPANTS** : 30

**REGISTRATION FEE** :

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 600/-             | -                  |

Contact Address

**DR. S. B. DANDIN**, Coordinator

|                    |                         |
|--------------------|-------------------------|
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| <b>Web Address</b> | : www.csrtinys.res.in   |

## CSK Himachal Pradesh Krishi Vishwavidyalaya, Palampur

Training Code No. : CSKKV-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Bioinformatics & Plant Genomics          |
| <b>Date</b>         | : May or June 2005 (Dates to be announced) |
| <b>Duration</b>     | : 3 days                                   |
| <b>Subject Area</b> | : Genomics and Proteomics                  |

**OBJECTIVES** : To educate teachers, scientists, students and research scholars about the use and potential of bioinformatics in Genomics.

**CONTENTS** : Use of bioinformatics tools in genome analysis such as DNA sequence assembly, Genome annotation, identification of structural and regulatory elements of biological importance in DNA sequence etc.

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

**LEVEL OF PARTICIPANTS** : Scientists/Students/Technical persons

**PRE-REQUISITES** : Knowledge of genetics is required

**NUMBER OF PARTICIPANTS** : 16

**REGISTRATION FEE** :

| Participants from | Course Fee            |  |
|-------------------|-----------------------|--|
|                   | Without Accommodation | With Accommodation                         |
| India             | Rs. 500/-             | Rs. 500/- + actual charges at Guest House  |
| SAARC Countries   | Rs. 1500/-            | Rs. 1500/- + actual charges at Guest House |
| Other Countries   | Rs. 1500/-            | Rs. 1500/- + actual charges at Guest House |

Training Code No. : CSKKV-02

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Fundamentals and role of computers in bioinformatics |
| <b>Date</b>         | : September, 2005 (Dates to be announced)              |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Computer Basics and Application in Bioinformatics    |

- OBJECTIVES** : To familiarize and promote the applications of computer and to create awareness about the role of computers in Bioinformatics
- CONTENTS** : Computer applications, creation of a biological database, various biological problems solved by computers.
- METHODOLOGY** : Lectures, Demonstrations and Hands on sessions.
- LEVEL OF PARTICIPANTS** : Scientists/ Students/ Technical persons
- PRE-REQUISITES** : Nil
- NUMBER OF PARTICIPANTS** : 16
- REGISTRATION FEE** :

| Participants from | Course Fee            |  |
|-------------------|-----------------------|--|
|                   | Without Accommodation | With Accommodation                         |
| India             | Rs. 500/-             | Rs. 500/- + actual charges at Guest House  |
| SAARC Countries   | Rs. 1500/-            | Rs. 1500/- + actual charges at Guest House |
| Other Countries   | Rs. 1500/-            | Rs. 1500/- + actual charges at Guest House |

Contact Address

**DR. R. S. CHAUHAN**, Coordinator

|                    |  |
|--------------------|--|
| <b>Phone</b>       | : 01894-230314   |
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| <b>Email</b>       | : <a href="mailto:rsc@hillagric.org">rsc@hillagric.org</a>                         |
| <b>Web Address</b> | : <a href="http://www.hillagric.org/coa/biotech">www.hillagric.org/coa/biotech</a> |

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

Training Code No. : YSPUHF-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : IPR Awareness Workshops                         |
| <b>Date</b>         | : 19 <sup>th</sup> - 20 <sup>th</sup> April, 2005 |
| <b>Duration</b>     | : 2 days  |
| <b>Subject Area</b> | : IPR   |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To create awareness regarding IPR issues and to provide basic knowledge about drafting and filing of patents.                                      |
| <b>CONTENTS</b>               | :<br>1 Introduction to IPR<br>2 Research planning in relation to patentability<br>3 Patent search through Internet<br>4 Drafting & filing of Patents |
| <b>METHODOLOGY</b>            | : Deliberation and demonstration session on patent search.   |
| <b>LEVEL OF PARTICIPANTS</b>  | : Scientists, Research Scholars and Students.  |
| <b>PRE-REQUISITES</b>         | : Basic knowledge of computers   |
| <b>NUMBER OF PARTICIPANTS</b> | : 20   |
| <b>REGISTRATION FEE</b>       | : Nil  |

Training Code No. : YSPUHF-02

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Creation and Management of Database              |
| <b>Date</b>         | : 14 <sup>th</sup> - 18 <sup>th</sup> June, 2005   |
| <b>Duration</b>     | : 5 days   |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To give training of DBMS (Creation and Management) to the participants.        |
| <b>CONTENTS</b>               | : Creation & Management of Database using Back End - My SQL and Front End - PHP. |
| <b>METHODOLOGY</b>            | : Lectures, Demonstrations and Practical session.                                |
| <b>LEVEL OF PARTICIPANTS</b>  | : Scientists, Research Scholars and Students.                                    |
| <b>PRE-REQUISITES</b>         | : Basic knowledge of computers   |
| <b>NUMBER OF PARTICIPANTS</b> | : 12   |
| <b>REGISTRATION FEE</b>       | : Rs. 500/-  |

Training Code No. : YSPUHF-03

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Bioinformatics Basics - Application in Biological Sciences |
| <b>Date</b>         | : 20 <sup>th</sup> - 24 <sup>th</sup> September, 2005        |
| <b>Duration</b>     | : 5 days   |
| <b>Subject Area</b> | : Bioinformatics and Biocomputing                            |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To educate the participants on the basics of Bioinformatics and to promote awareness and skills using online/ offline information retrieval using internet and CD ROM databases. |
| <b>CONTENTS</b>               | : Information to internet, biological resources on internet, literature survey and databases on internet.  |
| <b>METHODOLOGY</b>            | : Lectures, Demonstrations and Practical Session.  |
| <b>LEVEL OF PARTICIPANTS</b>  | : Scientists, Research Scholars and PG Students.   |
| <b>PRE-REQUISITES</b>         | : Basic knowledge of computers   |
| <b>NUMBER OF PARTICIPANTS</b> | : 20   |
| <b>REGISTRATION FEE</b>       | : Rs. 500/-  |

Contact Address

**DR. S. V. BHARDWAJ**, Coordinator

|              |   |                       |
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| <b>Fax</b>   | : | 01792-252242          |
| <b>Email</b> | : | satbhardwaj@yahoo.com |

## Devi Ahilya Vishwavidyalaya, Indore

Training Code No. : DAVV-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Bioinformatics & Information Technology           |
| <b>Date</b>         | : 20 <sup>th</sup> - 22 <sup>nd</sup> October, 2005 |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics  |

**OBJECTIVES** : To educate the participants on the fundamentals of computers and their applications in Biosciences.

**CONTENTS** : To be given during the workshop.

**METHODOLOGY** : Lectures and Demos.

**LEVEL OF PARTICIPANTS** : P.G. and Research students, academicians and researchers.

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 50

**REGISTRATION FEE** :

| Participants from | Course Fee                               |                        |
|-------------------|--|------------------------|
|                   | Without Accommodation                    | With Accommodation     |
| India             | Rs. 300/-<br>(Rs. 200/- for PG Students) | Actuals at Guest House |
| SAARC Countries   | Rs. 1000/-<br>(US \$ 20.00)              | Actuals at Guest House |
| Other Countries   | Rs. 1000/-<br>(US \$ 20.00)              | Actuals at Guest House |



Training Code No. : DAVV-02

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Bioinformatics & its applications                 |
| <b>Date</b>         | : 19 <sup>th</sup> - 20 <sup>th</sup> January, 2006 |
| <b>Duration</b>     | : 2 days  |
| <b>Subject Area</b> | : Bioinformatics and Biocomputing                   |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To educate the participants on the fundamentals of Bioinformatics tools & their applications |
| <b>CONTENTS</b>               | : To be given during the workshop.   |
| <b>METHODOLOGY</b>            | : Lectures/Demos   |
| <b>LEVEL OF PARTICIPANTS</b>  | : PG and research students, Academicians & Researchers   |
| <b>PRE-REQUISITES</b>         | : Nil  |
| <b>NUMBER OF PARTICIPANTS</b> | : 25   |
| <b>REGISTRATION FEE</b>       | :  |

| Participants from | Course Fee                               |                        |
|-------------------|--|------------------------|
|                   | Without Accommodation                    | With Accommodation     |
| India             | Rs. 300/-<br>(Rs. 200/- for PG Students) | Actuals at Guest House |
| SAARC Countries   | Rs. 1000/- (US \$ 20/-)                  | Actuals at Guest House |
| Other Countries   | Rs. 1000/- (US \$ 40/-)                  | Actuals at Guest House |

Contact Address

**DR. ANIL KUMAR**, Coordinator

|                    |                           |
|--------------------|---------------------------|
| <b>Phone</b>       | : 731-2470372, 2470373    |
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| <b>Email</b>       | : ak_sbt@yahoo.com        |
| <b>Web Address</b> | : www.biotech.dauiv.ac.in |

## G. B. Pant University of Agriculture & Technology, Pantnagar

Training Code No. : GBPUAT-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Elements in computer assisted analysis of protein structure and function |
| <b>Date</b>         | : 12 <sup>th</sup> - 14 <sup>th</sup> December, 2005                       |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Bioinformatics in Genomics and Proteomics                                |

- OBJECTIVES** :
- 1 To train research scholars to use database to understand proteomics and genomics
  - 2 To train participants for basic homology modeling of proteins and the predictive topology of proteins
- CONTENTS** :
- 1 Retrieval of Genomics and Proteomics database
  - 2 Use of Software related to genes, structural modeling of proteins
  - 3 Online basic homology modeling of proteins
  - 4 Use of different tools of NCBI and other databases.
- METHODOLOGY** :
- 1 Daily Lectures.
  - 2 Demonstration of the use of biological softwares and databases.
  - 3 Hands on session on PC to solve.
- LEVEL OF PARTICIPANTS** :
- Master's students, Research scholars and academician.
- PRE-REQUISITES** :
- Basic knowledge of computer operation and Molecular Biology.
- NUMBER OF PARTICIPANTS** : 10-15
- REGISTRATION FEE** : Rs. 500/-

| Participants<br>from | Course Fee               |   |
|----------------------|--------------------------|---|
|                      | Without<br>Accommodation | With<br>Accommodation   |
| India                | Not possible             | Registration fee + TA, TA<br>to be borne at his own,<br>accomodation will be<br>provided in the<br>university |
| SAARC Countries      | Not possible             | As per university rule  |
| Other Countries      | Not possible             | As per university rule  |

Training Code No. : GBPUAT-02

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Creation and management of databases in crops      |
| <b>Date</b>         | : 16 <sup>th</sup> - 18 <sup>th</sup> February, 2006 |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Bioinformatics in Biodiversity Area                |

- OBJECTIVES** : To train the human resource being trained at various Indian Institutes in the field of biotechnology including the PG students and different faculties from the university.
- CONTENTS** : 1 Retrieval of biological information through internet  
2 Retrieval of plant resource database through internet  
3 Database hyperlinking
- METHODOLOGY** : 1 Daily Lectures.  
2 Demonstration of the use of biological softwares and databases.  
3 Hands on session on PC to solve.
- LEVEL OF PARTICIPANTS** : Master's students, Research scholars and academician.
- PRE-REQUISITES** : Basic knowledge of computer operation.
- NUMBER OF PARTICIPANTS** : 10-15
- REGISTRATION FEE** : Rs. 500/-

| Participants from | Course Fee            |  |
|-------------------|-----------------------|--|
|                   | Without Accommodation | With Accommodation   |
| India             | Not possible          | Registration fee + TA , DA to be borne at his own, accomodation will be provided in the university |
| SAARC Countries   | Not possible          | As per university rule   |
| Other Countries   | Not possible          | As per university rule   |

\_\_\_\_\_  
Contact Address

**DR. G. K. GARG**, Coordinator

|                |                         |
|----------------|-------------------------|
| <b>Phone</b> : | 05944-233374            |
| <b>Fax</b> :   | 05944-233473            |
| <b>Email</b> : | gkgarg45@rediffmail.com |

**Guru Nanak Dev University, Amritsar**

Training Code No. : GNDU-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Advances in Bioinformatics                                  |
| <b>Date</b>         | : 02 <sup>nd</sup> - 03 <sup>rd</sup> March, 2006 (Tentative) |
| <b>Duration</b>     | : 2 days  |
| <b>Subject Area</b> | : Bioinformatics & Biocomputing                               |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To train Life Science students, research fellows & faculty in Bioinformatics and its applications. |
| <b>CONTENTS</b>               | : Tools of Bioinformatics  |
| <b>METHODOLOGY</b>            | : Lectures, Demos and Hands on session.  |
| <b>LEVEL OF PARTICIPANTS</b>  | : Faculty members/Research Fellows/Students.   |
| <b>PRE-REQUISITES</b>         | : Nil  |
| <b>NUMBER OF PARTICIPANTS</b> | : 14-16  |
| <b>REGISTRATION FEE</b>       | : Nil  |

\_\_\_\_\_  
Contact Address

**DR. PRABHJEET SINGH**, Coordinator

|              |   |                       |
|--------------|---|-----------------------|
| <b>Phone</b> | : | 0183-2258431          |
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| <b>Email</b> | : | bicamritsar@yahoo.com |

## Himachal Pradesh University, Shimla

Training Code No. : HPU-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : "Tools and Techniques for Protein Structure & Drug Designing" |
| <b>Date</b>         | : 16 <sup>th</sup> - 18 <sup>th</sup> May, 2005                 |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Bioinformatics - Driving Drug Discovery                       |

|                               |   |
|-------------------------------|---|
| <b>OBJECTIVES</b>             | : To familiarize the students, research scholars and teachers with the recent approaches in drug designing taking protein as a target site. |
| <b>CONTENTS</b>               | : Structural aspects of Protein for Drug Designing using Bioinformatics Softwares.  |
| <b>METHODOLOGY</b>            | : Lectures, Demonstration, Hands on experience.   |
| <b>LEVEL OF PARTICIPANTS</b>  | : Scientists, Technical persons and Ph.D. Students.   |
| <b>PRE-REQUISITES</b>         | : Nil   |
| <b>NUMBER OF PARTICIPANTS</b> | : 10-15   |
| <b>REGISTRATION FEE</b>       | :   |

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 500/-             | Rs. 800/-          |
| SAARC Countries   | Rs. 1500/-            | Rs. 5000/-         |
| Other Countries   | Rs. 5000/-            | Rs. 10000/-        |

Training Code No. : HPU-02

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Application of Linux in Bioinformatics & Biocomputing |
| <b>Date</b>         | : 26 <sup>th</sup> - 28 <sup>th</sup> September, 2005   |
| <b>Duration</b>     | : 3 days  |
| <b>Subject area</b> | : Bioinformatics & Biocomputing                         |

**OBJECTIVES** : To familiarize students, research scholars and teachers about the Linux operating system and its application in Bioinformatics.

**CONTENTS** : Introduction to Linux, networking, program ming in PERL and Bioinformatics softwares running on Linux.

**METHODOLOGY** : Lectures, Demonstration, Hands on experience.

**LEVEL OF PARTICIPANTS** : Scientists, Technical persons and Ph.D. Students.

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 10-15

**REGISTRATION FEE** :

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 500/-             | Rs. 800/-          |
| SAARC Countries   | Rs. 1500/-            | Rs. 5000/-         |
| Other Countries   | Rs. 5000/-            | Rs. 10000/-        |

\_\_\_\_\_  
Contact Address

**PROFESSOR T. C. BHALLA**, Coordinator

|              |                                  |
|--------------|----------------------------------|
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**Indian Agricultural Research Institute, New Delhi**

Training Code No. : IARI-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Simulation tools for Agri & Bio-processes understanding  |
| <b>Date</b>         | : 5 <sup>th</sup> - 26 <sup>th</sup> December, 2005  |
| <b>Duration</b>     | : 21 days  |
| <b>Subject Area</b> | : Networks & Applications in Bioinformatics<br>Bioinformatics & Biocomputing<br>Databases/Software developmental activities in Bioinformatics & Agriinformatics<br>Crops & Soil Process Modeling |

- OBJECTIVES** : Basics of simulation, its use for Agri. & Soil processes understanding, preparation of DSS for agro advisories & production estimates, Bioinformatics.
- CONTENTS** : Simulation techniques, soil & crop process models, linkages with agri-databases, for decision making application in the fields of resource management, climate change, sustainability aspects, genome sequence analysis.
- METHODOLOGY** : Lectures, Demos and Hands on sessions.
- LEVEL OF PARTICIPANTS** : Scientists, Technical and students.
- PRE-REQUISITES** : M.Sc./Ph.D. with knowledge in computers
- NUMBER OF PARTICIPANTS** : 15
- REGISTRATION FEE** : Nil

Training Code No. : IARI-02

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Workshop on "Bio & Agri-informatics linkages with the decision tools for resource management & production estimates                  |
| <b>Date</b>         | : 5 <sup>th</sup> - 6 <sup>th</sup> September, 2005  |
| <b>Duration</b>     | : 2 days   |
| <b>Subject Area</b> | : Bioinformatics & Biocomputing<br>Databases/Software developmental activities in bioinformatics<br>Bioinformatics in Crop improvement |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To expose researchers & students to the recent tools of bioinformatics simulation, MRDMS .                   |
| <b>CONTENTS</b>               | : To devise a methodology to link the relational database layers with decision tools for production estimates. |
| <b>METHODOLOGY</b>            | : Lectures, Demos and Hands on sessions.   |
| <b>LEVEL OF PARTICIPANTS</b>  | : Scientists, Technical staff, PG students.  |
| <b>PRE-REQUISITES</b>         | : M.Sc. with basic knowledge in computers  |
| <b>NUMBER OF PARTICIPANTS</b> | : 20   |
| <b>REGISTRATION FEE</b>       | : Nil  |

Training Code No. : IARI-03

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Internet & Information networks in Bioinformatics   |
| <b>Date</b>         | : 16 <sup>th</sup> - 17 <sup>th</sup> September, 2005   |
| <b>Duration</b>     | : 2 days  |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics<br>Database/Software developmental activities in<br>Bioinformatics |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To expose researchers & students to the recent developments in network services, tools & softwares.              |
| <b>CONTENTS</b>               | : Internet tools, search engines, Bioinformatics sources, online database management system, early warning system. |
| <b>METHODOLOGY</b>            | : Lectures, Demos and Hands on sessions.   |
| <b>LEVEL OF PARTICIPANTS</b>  | : Scientists, Technical staff, PG students.  |
| <b>PRE-REQUISITES</b>         | : M.Sc.  |
| <b>NUMBER OF PARTICIPANTS</b> | : 12   |
| <b>REGISTRATION FEE</b>       | : Nil  |

\_\_\_\_\_  
Contact Address

**DR. NAVEEN KALRA**, Coordinator

|                    |   |                        |
|--------------------|---|------------------------|
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| <b>Web Address</b> | : | www.iari.res.in        |

## Indian Institute of Chemical Biology, Kolkata

Training Code No. : IICB-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Biocomputing in post genomic era   |
| <b>Date</b>         | : 3rd week of November, 2005   |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Bioinformatics and Biocomputing<br>Retrieval of Bioinformatics Resources/Databases<br>Genomics/Proteomics<br>Bioinformatics - Driving Drug Discovery |

|                               |   |  |
|-------------------------------|---|--|
| <b>OBJECTIVES</b>             | : | To provide an exposure to different bioinformatics tools and techniques and their applications in the area of genome & proteome analysis |
| <b>CONTENTS</b>               | : | Bioinformatics resources, genome & proteome analysis, molecular modeling and drug design   |
| <b>METHODOLOGY</b>            | : | Lectures, Demonstrations and Hands on session.   |
| <b>LEVEL OF PARTICIPANTS</b>  | : | Scientists, teachers, research scholars, professionals and technical personnel.  |
| <b>PRE-REQUISITES</b>         | : | Nil  |
| <b>NUMBER OF PARTICIPANTS</b> | : | 30   |
| <b>REGISTRATION FEE</b>       | : |  |

| Participants from | Course Fee                              |                    |
|-------------------|---|--------------------|
|                   | Without Accommodation                   | With Accommodation |
| India             | Rs. 1000/- (for Academic/R&D institute) |                    |
| SAARC Countries   | Rs. 2000/- (for Industry Entrepreneurs) |                    |
| Other Countries   |   |                    |

Contact Address

---

**DR. CHITRA DUTTA**, Coordinator

|              |   |   |
|--------------|---|---|
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| <b>Fax</b>   | : | 033-24735197  |
| <b>Email</b> | : | <a href="mailto:cdutta@iicb.res.in">cdutta@iicb.res.in</a> / <a href="mailto:bic@iicb.res.in">bic@iicb.res.in</a> |

## Indian Institute of Science, Bangalore

Training Code No. : IISc-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Bioinformatics: Impact on biotechnology and medicine in India              |
| <b>Date</b>         | : 14 <sup>th</sup> - 16 <sup>th</sup> December, 2005                         |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Bioinformatics and Biocomputing<br>Bioinformatics - Driving Drug Discovery |

|                               |                                      |
|-------------------------------|--------------------------------------|
| <b>OBJECTIVES</b>             | : Latest advances                    |
| <b>CONTENTS</b>               | :                                    |
| <b>METHODOLOGY</b>            | : Lectures and Hands on session.     |
| <b>LEVEL OF PARTICIPANTS</b>  | : Master degree in the relevant area |
| <b>PRE-REQUISITES</b>         | : Nil                                |
| <b>NUMBER OF PARTICIPANTS</b> | : 30                                 |
| <b>REGISTRATION FEE</b>       | :                                    |

| Participants from | Course Fee  |                         |
|-------------------|---|-------------------------|
|                   | Without Accommodation                                 | With Accommodation      |
| India             | Rs. 500/- (for students)<br>Rs. 2000/- (for industry) | Subject to availability |
| SAARC Countries   |   |                         |
| Other Countries   |   |                         |

Contact Address

**DR. S. RAMAKUMAR**, Coordinator

|                    |   |
|--------------------|---|
| <b>Phone</b>       | : 080-23601409  |
| <b>Fax</b>         | : 080-23600551  |
| <b>Email</b>       | : ramak@physics.iisc.ernet.in   |
| <b>Web Address</b> | : <a href="http://physics.iisc.ernet.in/~dichome/">http://physics.iisc.ernet.in/~dichome/</a> |

**Indian Institute of Spices Research, Calicut**

Training Code No. : IISR-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Biotechnology and Bioinformatics: Applications in Agriculture Research |
| <b>Date</b>         | : 13 <sup>th</sup> October - 02 <sup>nd</sup> November, 2005             |
| <b>Duration</b>     | : 21 days  |
| <b>Subject Area</b> | : Genomics/Proteomics  |

|   |  |
|---|--|
| <b>OBJECTIVES</b>                             | : To familiarize researchers on applications of biotechnology and bioinformatics in agriculture research and to provide hands on training in various tools and techniques of biotechnology and bioinformatics  |
| <b>CONTENTS</b>                               | : Basics of Molecular biology, Biological data bases, Data mining and sequence analysis, Phylogenetics and biodiversity informatics, RAPD, RFLP and PCR techniques, Genomics & transcript analysis, Primer designing, Molecular Modeling, Proteomics and Genomics etc. |
| <b>METHODOLOGY</b>                            | : Lectures, Demos, Hands on session, Wet-lab experiments.  |
| <b>LEVEL OF PARTICIPANTS</b>                  | : Exclusively for ICAR scientists and agricultural university teachers   |
| <b>PRE-REQUISITES</b>                         | : To be sponsored by the parent department   |
| <b>NUMBER OF PARTICIPANTS</b>                 | : 10   |
| <b>REGISTRATION FEE</b>                       | : Nil  |
| <b>ANY OTHER RELEVANT INFORMATION, IF ANY</b> | : Accommodation and transport to be borne by the candidate   |

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 Contact Address
 

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**DR. SANTHOSH J. EAPEN**, Coordinator

|                    |  |
|--------------------|--|
| <b>Phone</b>       | : 0495-2732000                                     |
| <b>Fax</b>         | : 0495-2730294                                     |
| <b>Email</b>       | : <a href="mailto:disc@iisr.org">disc@iisr.org</a> |
| <b>Web Address</b> | : <a href="http://www.iisr.org">www.iisr.org</a>   |

**Indian Institute of Technology, Delhi**

Training Code No. : IITD-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Bioinformatics, Genomics, Proteomics, Computational Biology   |
| <b>Date</b>         | : First week of March, 2006   |
| <b>Duration</b>     | : 2 days  |
| <b>Subject Area</b> | : Bioinformatics and Biocomputing<br>Retrieval of Bioinformatics Resources/Databases<br>Genomics/Proteomics |

**OBJECTIVES** : To give lectures in the area of Bioinformatics & Computational Biology

**CONTENTS** : 1 Protein & Nucleic Acid Databases  
2 Sequence Alignments  
3 Phylogenetic Predictions  
4 Genomics  
5 Proteomics  
6 Transcriptomics  
7 Application of Statistics in analysis of Microarray data

**METHODOLOGY** : Lectures as well as hands on training

**LEVEL OF PARTICIPANTS** : B.Tech./M.Tech./M.Sc./Ph.D.

**PRE-REQUISITES** : Students from biological science background preferred

**NUMBER OF PARTICIPANTS** : 60

**REGISTRATION FEE** :

| Participants from                 | Course Fee            |                    |
|-----------------------------------|-----------------------|--------------------|
|                                   | Without Accommodation | With Accommodation |
| India<br>SAARC<br>Other Countries | Rs. 1000/-            | Rs. 1000/-         |



Contact Address

**PROFESSOR SAROJ MISHRA**, Coordinator

|                    |   |                        |
|--------------------|---|------------------------|
| <b>Phone</b>       | : | 011-26596156           |
| <b>Fax</b>         | : | 011-26582282           |
| <b>Email</b>       | : | saroj@ceb.iitd.emet.in |
| <b>Web Address</b> | : | www.iitd.ac.in         |

## Indian Institute of Technology, Kharagpur

Training Code No. : IITK-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Workshop on "Bioinformatics in Genomics and Proteomics"  |
| <b>Date</b>         | : 23 <sup>rd</sup> - 24 <sup>th</sup> September, 2005  |
| <b>Duration</b>     | : 2 days   |
| <b>Subject Area</b> | : Networks & Applications in Bioinformatics<br>Bioinformatics & Biocomputing<br>Retrieval of Bioinformatics Resources/Databases<br>Genomics/Proteomics |

**OBJECTIVES** : To use Bioinformatics tools in Genomics and Proteomics.

**CONTENTS** : EST, Genome and Protein Databases, Micro Arrays, Retrieval and analysis of specific wet lab data, molecular modeling, case studies using internet.

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

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

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 50

**REGISTRATION FEE** :

| Participants from                 | Course Fee            |  |
|-----------------------------------|-----------------------|--|
|                                   | Without Accommodation | With Accommodation                                   |
| India<br>SAARC<br>Other Countries | Rs. 800/-             | Institute Guest House with subsidized rate available |

Contact Address**PROFESSOR S. C. KUNDU**, Coordinator

|                    |   |   |
|--------------------|---|---|
| <b>Phone</b>       | : | 03222-283764, 278433  |
| <b>Fax</b>         | : | 03222-278433  |
| <b>Email</b>       | : | kundu@ijli.iitkgp.emet.in   |
| <b>Web Address</b> | : | <a href="http://www.iitkgp.emet.in">http://www.iitkgp.emet.in</a> |

**Indian Veterinary Research Institute, Izatnagar**

Training Code No. : IVRI-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Bioinformatics Databases and Accession  |
| <b>Date</b>         | : 22 <sup>nd</sup> - 25 <sup>th</sup> August, 2005 & 15 <sup>th</sup> - 18 <sup>th</sup> November, 2005 |
| <b>Duration</b>     | : 4 days  |
| <b>Subject Area</b> | : Bioinformatics & Computing  |

- OBJECTIVES** : 1 To make aware the participants in use of various bioinformatics softwares and databases.  
2 To introduce the application of bioinformatics in Animal Science.
- CONTENTS** : 1 Introduction to computer  
2 Bioinformatics Software and Databases.
- METHODOLOGY** : Lectures, Demos, Hands on session
- LEVEL OF PARTICIPANTS** : Persons working in the field of Veterinary/Agriculture/Medical Sciences/
- PRE-REQUISITES** : Nil
- NUMBER OF PARTICIPANTS** : 10
- REGISTRATION FEE** : Rs. 500/-
- ANY OTHER RELEVANT INFORMATION, IF ANY** : Will be heard by participants

Training Code No. : IVRI-02

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Bioinformatics Databases and Accession             |
| <b>Date</b>         | : 26 <sup>th</sup> - 30 <sup>th</sup> December, 2005 |
| <b>Duration</b>     | : 5 days   |
| <b>Subject Area</b> | : Retrieval of Bioinformatics Resources/Databases    |

**OBJECTIVES** :

- 1 To make aware the participants in use of various databases.
- 2 To accession of databases in LAN environment.

**CONTENTS** :

- 1 Introduction to computer.
- 2 Structure of databases.
- 3 Retrieval of databases.
- 4 Use of databases in LAN environment.
- 5 Introduction to library automation software
- 6 Hands on practice of information retrieval from databases.

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

**LEVEL OF PARTICIPANTS** : Persons working in the field of Veterinary/Agriculture/Medical Sciences

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 10

**REGISTRATION FEE** : Rs. 2500/-

**ANY OTHER RELEVANT INFORMATION, IF ANY** : Will be heard by participants

\_\_\_\_\_  
Contact Address

**DR. RAJENDRA SINGH**, Coordinator

|                    |   |   |
|--------------------|---|---|
| <b>Phone</b>       | : | 581-2302571                               |
| <b>Fax</b>         | : | 581-2303284                               |
| <b>Email</b>       | : | btis@ivri.up.nic.in/codiso@ivri.up.nic.in |
| <b>Web Address</b> | : | www.ivri.nic.in                           |

**Institute of Life Sciences, Bhubaneswar**

Training Code No. : ILS-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Functional Genomics and Proteomics Research        |
| <b>Date</b>         | : 23 <sup>rd</sup> - 25 <sup>th</sup> November, 2005 |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Genomics/Proteomics                                |

|                               |   |
|-------------------------------|---|
| <b>OBJECTIVES</b>             | : To train the people working on Biotechnology and Bioinformatics         |
| <b>CONTENTS</b>               | : Computer based prediction of functionally important genes and proteins. |
| <b>METHODOLOGY</b>            | : Workshop (lectures and demos)   |
| <b>LEVEL OF PARTICIPANTS</b>  | : M.Sc. Students, Research Scholars, Faculties and Scientists.            |
| <b>PRE-REQUISITES</b>         | : Nil   |
| <b>NUMBER OF PARTICIPANTS</b> | : 16  |
| <b>REGISTRATION FEE</b>       | :   |

| Participants from | Course Fee   |                    |
|-------------------|--|--------------------|
|                   | Without Accommodation                                    | With Accommodation |
| India             | Rs. 1000/- (for students)<br>Rs. 2000/- (for scientists) |                    |
| SAARC             | Rs. 3000/-   |                    |
| Other Countries   | Rs. 5000/-   |                    |

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 Contact Address
 

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DR. SUBRATA K. DAS, Coordinator

|                    |                          |
|--------------------|--------------------------|
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| <b>Fax</b>         | : 0674-2300728           |
| <b>Email</b>       | : subratkdas@hotmail.com |
| <b>Web Address</b> | : www.ils.res.in         |

## Institute of Microbial Technology, Chandigarh

Training Code No. : IMT-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Machine learning techniques functional proteomics  |
| <b>Date</b>         | : 24 <sup>th</sup> - 27 <sup>th</sup> October, 2005  |
| <b>Duration</b>     | : 4 days   |
| <b>Subject Area</b> | : Bioinformatics and Biocomputing<br>Genomics/Proteomics<br>Developmental activities in bioinformatics |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To teach machine learning techniques |
| <b>CONTENTS</b>               | : Functional Proteomics, ANN, SVM, HMM |
| <b>METHODOLOGY</b>            | : Lectures and Demos                   |
| <b>LEVEL OF PARTICIPANTS</b>  | : M.Sc.                                |
| <b>PRE-REQUISITES</b>         | : M.Sc. or equivalent                  |
| <b>NUMBER OF PARTICIPANTS</b> | : 25                                   |
| <b>REGISTRATION FEE</b>       | :                                      |

| Participants from | Course Fee            |                                  |
|-------------------|-----------------------|----------------------------------|
|                   | Without Accommodation | With Accommodation               |
| India             | Rs. 2000/-            | Rs. 2000/- & Guest house charges |
| SAARC             | Rs. 3000/-            | Rs. 3000/- & Guest house charges |
| Other Countries   | Rs. 3000/-            | Rs. 3000/- & Guest house charges |

Contact Address

**DR. G. P. S. RAGHAVA**, Coordinator

|                    |   |
|--------------------|---|
| <b>Phone</b>       | : 0172-2690557  |
| <b>Fax</b>         | : 0172-2690585  |
| <b>Email</b>       | : <a href="mailto:raghava@imtech.res.in">raghava@imtech.res.in</a>          |
| <b>Web Address</b> | : <a href="http://www.imtech.res.in/bic/">http://www.imtech.res.in/bic/</a> |

## Jawaharlal Nehru University, New Delhi

Training Code No. : JNU-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Short term training programme in Computational Biology & Bioinformatics                        |
| <b>Date</b>         | :  |
| <b>Duration</b>     | : Minimum 8 weeks and maximum 6 months   |
| <b>Subject Area</b> | : Computational Genomics<br>Structural Bioinformatics<br>In-Silico Drug Design<br>System Biology |

- OBJECTIVES** :
- CONTENTS** :
- METHODOLOGY** : Lectures
- LEVEL OF PARTICIPANTS** : Pursuing M.Sc. in different branches of biological sciences, Physical sciences, Mathematical Sciences, Computer Sciences, B.Tech., B.E. and MCA
- PRE-REQUISITES** : Submit application in plan paper along with CV stating the purpose for which you require training and the expected outcome during the training. A letter of recommendation from one of your teacher should also be included.
- NUMBER OF PARTICIPANTS** :
- REGISTRATION FEE** :

| Participants from                 | Course Fee            |   |
|-----------------------------------|-----------------------|---|
|                                   | Without Accommodation | With Accommodation                                      |
| India<br>SAARC<br>Other Countries | Rs. 500/-             | Selected candidates have to make their own arrangements |



Training Code No. : JNU-02

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Long term training programme in Computational Biology and Bioinformatics                      |
| <b>Date</b>         | :   |
| <b>Duration</b>     | : Maximum period of One year  |
| <b>Subject Area</b> | : Computational Genomics<br>Structural Bioinformatics<br>Insilico Drug Design<br>System Biology |

- OBJECTIVES** :
- CONTENTS** :
- METHODOLOGY** : Lectures
- LEVEL OF PARTICIPANTS** : Pursuing M.Sc. in different branches of biological sciences, Physical sciences, Mathematical Sciences, Computer Sciences, B.Tech., B.E. and MCA
- PRE-REQUISITES** : Submit application in plan paper along with CV stating the purpose for which you require training and the expected outcome during the training. A letter of recommendation from one of your teacher should also be included.
- NUMBER OF PARTICIPANTS** :
- REGISTRATION FEE** : Some of the selected candidates will be given a stipend.
- ANY OTHER RELEVANT INFORMATION, IF ANY** : The selected candidates will not be given an accommodation on Campus, they have to make their own arrangements.

Training Code No. : JNU-03

|                     |   |   |
|---------------------|---|---|
| <b>Title</b>        | : | Post Doctoral training programme in Computational Biology and Bioinformatics                  |
| <b>Date</b>         | : |   |
| <b>Duration</b>     | : |   |
| <b>Subject Area</b> | : | Computational Genomics<br>Structural Bioinformatics<br>Insilico Drug Design<br>System Biology |

- OBJECTIVES** :
- CONTENTS** :
- METHODOLOGY** : Lectures
- LEVEL OF PARTICIPANTS** : Ph.D. in different branches of biological sciences, Physical sciences, Mathematical Sciences, Computer Sciences and Engineering and MCA
- PRE-REQUISITES** : Submit application in plain paper along with CV stating the purpose for which you require training and the expected outcome during the training. A letter of recommendation from one of your teachers should also be included.
- NUMBER OF PARTICIPANTS** :
- REGISTRATION FEE** : Selected candidates will be given a Post Doctoral Fellowship.
- ANY OTHER RELEVANT INFORMATION, IF ANY** : The selected candidates will not be given an accommodation on Campus, they have to make their own arrangements.

Training Code No. : JNU-04

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Algorithmic approaches in gene and genome sequence analysis |
| <b>Date</b>         | : 26th - 28 <sup>th</sup> September, 2005                     |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Bioinformatics and Biocomputing<br>Genomics/Proteomics      |

**OBJECTIVES** : To provide an overview of computational methods and algorithms related to DNA sequence analysis

**CONTENTS** : Dynamic programming, Statistical distributions, Motif searching, Neural networks and Markov models

**METHODOLOGY** : Lectures

**LEVEL OF PARTICIPANTS** : Nil

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 20

**REGISTRATION FEE** :

| Participants from | Course Fee            |                        |
|-------------------|-----------------------|------------------------|
|                   | Without Accommodation | With Accommodation     |
| India             | Rs. 1500/-            | Actuals at Guest House |
| SAARC             | Rs. 1500/-            | Actuals at Guest House |

\_\_\_\_\_  
Contact Address

**PROFESSOR ALOK BHATTACHARYA**, Coordinator

|                    |   |
|--------------------|---|
| <b>Phone</b>       | : 011-26717584  |
| <b>Fax</b>         | : 011-26717586  |
| <b>Email</b>       | : alok0200@mail.jnu.ac.in/<br>ganesht@mail.jnu.ac.in      |
| <b>Web Address</b> | : <a href="http://www.jnu.ac.in">http://www.jnu.ac.in</a> |

**Kerala Agricultural University, Thrissur**

Training Code No. : KAU-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Application of Linux in Bioinformatics              |
| <b>Date</b>         | : 14 <sup>th</sup> - 16 <sup>th</sup> September, 2005 |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Networks & Applications in Bioinformatics           |

- OBJECTIVES** : This workshop is being organized in using LINUX as the desktop OS of the future and to demonstrate its applications in Bioinformatics.
- CONTENTS** : Introduction to Linux, Using X-Windows, Text files - Command Line Tools, The Linux Environment, User Level Security, Managing file systems, Process control, Networking and Internet, Programme development in Linux, Role of Linux in Bioinformatics - Applications of Linux in various bioinformatics softwares such as Bioperl, Blast, Clustalw, Clustalx, Swiss Pdb Viewer, PHYLIP, Rasmol etc..
- METHODOLOGY** : Lectures, Demos and Hands on session.
- LEVEL OF PARTICIPANTS** : Scientists of KAU working in the field of Biotechnology.
- PRE-REQUISITES** : Basic knowledge about computers.
- NUMBER OF PARTICIPANTS** : 8
- REGISTRATION FEE** : Nil

Training Code No. : KAU-02

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Applications of Bioinformatics in Agricultural Research |
| <b>Date</b>         | : 17 <sup>th</sup> - 19 <sup>th</sup> October, 2005       |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics        |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To expose the applications of Bioinformatics in Agricultural Research.   |
| <b>CONTENTS</b>               | : Introduction to Bioinformatics and its applications for R&D, Various offline information retrieval using CD-ROM databases and scientific softwares and their applications in Agricultural Research, Interpretation of Molecular Marker Data. |
| <b>METHODOLOGY</b>            | : Lectures, Demos and Hands on session.  |
| <b>LEVEL OF PARTICIPANTS</b>  | : Scientists of KAU working in the field of Biotechnology.   |
| <b>PRE-REQUISITES</b>         | : Nil  |
| <b>NUMBER OF PARTICIPANTS</b> | : 8  |
| <b>REGISTRATION FEE</b>       | : Nil  |

Training Code No. : KAU-03

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Emerging trends in Bioinformatics                      |
| <b>Date</b>         | : 14 <sup>th</sup> - 16 <sup>th</sup> November, 2005     |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Bioinformatics and Biocomputing<br>Genomics/Proteomics |

**OBJECTIVES** : To give a concise information on growing areas of Bioinformatics like Medicine, Pharmaceutical drug design, Biological computing models, DNA computing etc.

**CONTENTS** : Functional Genomics, Comparative Genomics, Neural Networks, Phylogeny, Drug Designing

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

**LEVEL OF PARTICIPANTS** : Scientists of KAU working in the field of Biotechnology.

**PRE-REQUISITES** : Basic knowledge about computers

**NUMBER OF PARTICIPANTS** : 8

**REGISTRATION FEE** : Nil

\_\_\_\_\_  
Contact Address

**DR. R. KESHAVACHANDRAN**, Coordinator

|                    |   |   |
|--------------------|---|---|
| <b>Phone</b>       | : | 0487-2371994  |
| <b>Fax</b>         | : | 0487-2370019  |
| <b>Email</b>       | : | kauhqr@hub.nic.in                                   |
| <b>Web Address</b> | : | <a href="http://www.kau.edu">http://www.kau.edu</a> |

**M. S. University of Baroda, Vadodara**

Training Code No. : MSUB-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Bioinformatics for functional genomics studies                     |
| <b>Date</b>         | : 26 <sup>th</sup> - 29 <sup>th</sup> October, 2005 (tentative date) |
| <b>Duration</b>     | : 4 days   |
| <b>Subject Area</b> | : Genomics/Proteomics<br>Developmental Activities in Bioinformatics  |

- OBJECTIVES** : To promote awareness of IT applications in biological sciences, bioinformatics tools for genomic and proteomic analysis, Microarray data analysis, hands on training in basic informatics tools etc.
- CONTENTS** : Microarray Data Analysis, Genomics and Proteomics, Sequence analysis tools
- METHODOLOGY** : Lectures and Hands on session
- LEVEL OF PARTICIPANTS** : Scientists, Research Scholars and other R&D personnel
- PRE-REQUISITES** : Nil
- NUMBER OF PARTICIPANTS** : 30
- REGISTRATION FEE** :

| Participants from                 | Course Fee               |                       |
|-----------------------------------|--------------------------|-----------------------|
|                                   | Without Accommodation    | With Accommodation    |
| India<br>SAARC<br>Other Countries | Rs. 1000/-<br>Rs. 1000/- | Actual at guest House |

Contact Address

---

**DR. BHARAT B. CHATTOO**, Coordinator

|                    |   |   |
|--------------------|---|---|
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| <b>Fax</b>         | : | 0265-2792508  |
| <b>Email</b>       | : | chattoo@bcmsu.ac.in   |
| <b>Web Address</b> | : | <a href="http://www.bcmsu.ac.in">http://www.bcmsu.ac.in</a> |



**Madurai Kamaraj University, Madurai**

Training Code No. : MKU-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Molecular Modeling                             |
| <b>Date</b>         | : 21 <sup>st</sup> - 23 <sup>rd</sup> July, 2005 |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Bioinformatics & Biocomputing                  |

|                               |   |  |
|-------------------------------|---|--|
| <b>OBJECTIVES</b>             | : | Training to research students                              |
| <b>CONTENTS</b>               | : |  |
| <b>METHODOLOGY</b>            | : | Lectures, Demos and Hands on session                       |
| <b>LEVEL OF PARTICIPANTS</b>  | : | Research Students  |
| <b>PRE-REQUISITES</b>         | : | Experience in handling computers and knowl edge in Unix OS |
| <b>NUMBER OF PARTICIPANTS</b> | : | 10   |
| <b>REGISTRATION FEE</b>       | : |  |

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 750/-             | Rs. 1000/-         |
| SAARC             |                       |                    |
| Other Countries   |                       |                    |

Training Code No. : MKU-02

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Applications of Molecular Graphics                                       |
| <b>Date</b>         | : 6 <sup>th</sup> - 8 <sup>th</sup> January, 2006                          |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Bioinformatics & Biocomputing<br>Bioinformatics - Driving Drug Discovery |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : Training to College teachers                                 |
| <b>CONTENTS</b>               | :  |
| <b>METHODOLOGY</b>            | : Lectures, Demos and Hands on session                         |
| <b>LEVEL OF PARTICIPANTS</b>  | : Teachers in Biotechnology/<br>Bioinformatics                 |
| <b>PRE-REQUISITES</b>         | : Experience in handling computers and<br>knowledge in Unix OS |
| <b>NUMBER OF PARTICIPANTS</b> | : 10   |
| <b>REGISTRATION FEE</b>       | :  |

| Participants<br>from              | Course Fee               |                       |
|-----------------------------------|--------------------------|-----------------------|
|                                   | Without<br>Accommodation | With<br>Accommodation |
| India<br>SAARC<br>Other Countries | Rs. 1500/-               | Rs. 2000/-            |

Contact Address

**PROFESSOR. K. DHARMALINGAM**, Coordinator

|                    |   |
|--------------------|---|
| <b>Phone</b>       | : 0452-2459141  |
| <b>Fax</b>         | : 0452-2459105  |
| <b>Email</b>       | : rafi@ma.tn.nic.in   |
| <b>Web Address</b> | : <a href="http://www.biotechmku.org">http://www.biotechmku.org</a> |

## Mahatma Gandhi Institute of Medical Sciences, Wardha

Training Code No. : MGIMS-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Seminar on Biomedical Informatics  |
| <b>Date</b>         | : 23 <sup>rd</sup> - 24 <sup>th</sup> September, 2005  |
| <b>Duration</b>     | : 2 days   |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics<br>Network & Applications in Bioinformatics<br>Bioinformatics & Biocomputing<br>Retrieval of Bioinformatics Resources/Databases<br>Developmental activities in Bioinformatics |

- OBJECTIVES** : Sensitization of Medical teachers, Scientists and PG/Ph.D. students to Biomedical Informatics
- CONTENTS** : Brain storming meeting regarding publication of Indian journal of Biomedical Informatics Interesting lectures on medical informatics, Genomics, Proteomics, Industrial, Agriculture, Horticulture, Environmental Biotechnology etc.
- METHODOLOGY** : Workshop will comprise of interesting, interactive sessions and brain storming meeting
- LEVEL OF PARTICIPANTS** : Medical teachers, Scientists, PG/Ph.D. students.
- PRE-REQUISITES** : Participants should already be familiar with computer usage and be with interest in Medical/Clinical Informatics.
- NUMBER OF PARTICIPANTS** : 15
- REGISTRATION FEE** : Registration fee includes training course kit material and food.

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 500/-             | Rs. 700/-          |
| SAARC             | US \$ 25/-            | US \$ 30/-         |
| Other Countries   | US \$ 50/-            | US \$ 60/-         |

**ANY OTHER RELEVANT INFORMATION, IF ANY**

: So far we have organised 6 National level workshops on Medical Informatics & Biomedical Communication and one National Symposium on Medical Informatics and CME on Hospital Information system.

Contact Address

**DR. B. C. HARINATH**, Coordinator

|                    |   |  |
|--------------------|---|--|
| <b>Phone</b>       | : | 07152-284679   |
| <b>Fax</b>         | : | 07152-284038   |
| <b>Email</b>       | : | <a href="mailto:jbtdrc_wda@sancharnet.in">jbtdrc_wda@sancharnet.in</a> |
| <b>Web Address</b> | : | <a href="http://www.jbtdrc.org">www.jbtdrc.org</a>                     |

**National Brain Research Centre, Gurgaon**

Training Code No. : NERC-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Computational Neuroscience Workshop at IIT, Bombay |
| <b>Date</b>         | : October - November 2005                            |
| <b>Duration</b>     | : 8-10 days  |
| <b>Subject Area</b> | : Neuroinformatics                                   |

**OBJECTIVES** : The aim of this course is to provide students with an introduction to basic concepts in computational neuroscience.

**CONTENTS** : The course will provide basics of neuroscience and computational methods. Additionally related topics in artificial neural networks, neuroimaging will also be covered. We will make use of GENESIS, Matlab and neural network toolkits for demonstration and exercises to gain a deeper understanding of the concepts and methods introduced in the course.

**METHODOLOGY** : Experiments and computational models addressing will be the central theme of this course.

**LEVEL OF PARTICIPANTS** :

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** :

**REGISTRATION FEE** :

\_\_\_\_\_ Contact Address

**DR. NANDINI C. SINGH**, Coordinator

|                    |   |                        |
|--------------------|---|------------------------|
| <b>Phone</b>       | : | 124-2338921-26 Ext. 45 |
| <b>Fax</b>         | : | 124-2338928            |
| <b>Email</b>       | : | nandini@nrc.ac.in      |
| <b>Web Address</b> | : | http://www.nrc.ac.in   |

**National Botanical Research Institute, Lucknow**

Training Code No. : NBRI-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Second National Conference on Botanic Gardens of India   |
| <b>Date</b>         | : September/November 2005  |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Networks & Applications in Bioinformatics<br>Retrieval of Bioinformatics Resources/Databases<br>Developmental Activities in Bioinformatics |

- OBJECTIVES** :
1. To impart training on data collection and information management and data sharing.
  2. To review the status of the network of botanic gardens of India.
  3. To review the status in India of various botanic gardens programmes such as conservation of biodiversity and associated knowledge system, databasing, networking and websites, eco-education and empowering women.

**CONTENTS** :**METHODOLOGY** : Presentations, Lectures, Demos**LEVEL OF PARTICIPANTS** : Scientists/Experts in relevant area.**PRE-REQUISITES** : Confirmation by participants.**NUMBER OF PARTICIPANTS** : 60**REGISTRATION FEE** : Will be decided later.

Training Code No. : NBRI-02

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Third Training Workshop on Information Management in Botanic Gardens                         |
| <b>Date</b>         | : April 2005   |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Networks & Applications in Bioinformatics<br>Retrieval of Bioinformatics Resources/Databases |

- OBJECTIVES** :
- 1 To review the status of information management
  - 2 To discuss the methodologies for data sharing among gardens.
  - 3 To impart training on data collection.

**CONTENTS** :

**METHODOLOGY** : Presentations, Lectures, Demos

**LEVEL OF PARTICIPANTS** : Scientists/ Experts in relevant area.

**PRE-REQUISITES** : Confirmation by participants.

**NUMBER OF PARTICIPANTS** : 20

**REGISTRATION FEE** : Will be decided later.

Training Code No. : NBRI-03

|                     |   |
|---------------------|---|
| <b>Title</b>        | : International Workshop on the establishment of GBIF-India Network |
| <b>Date</b>         | : May 2005 (Dates are not yet finalized)                            |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Networks & Applications in Bioinformatics                         |

**OBJECTIVES** :

1. To create awareness about GBIF and discuss the role of GBIF India node at NBRI Bioinformatics.
2. To discuss methodologies of GBIF Data Provider Node.

**CONTENTS** :

**METHODOLOGY** : Presentations, Lectures, Demos and hands on training will be organized.

**LEVEL OF PARTICIPANTS** : Scientists/ Experts in relevant area.

**PRE-REQUISITES** : Confirmation by participants.

**NUMBER OF PARTICIPANTS** : 35-40

**India:** 10-15

**SAARC Countries:** 7-10 (One or more from Bangladesh, Bhutan, Maldives, Nepal, Pakistan and Sri Lanka)

**Other Countries/Organizations:** 2-3 (GBIF, Denmark), 13 (one each from Cambodia, China, Indonesia, Iran, Laos, Malaysia, Myanmar, Papua - New Guinea, Seychelles, Vietnam, ASEAN Participants, ASEANET Participant, EASIANNET Participants)

**REGISTRATION FEE** : Nil

\_\_\_\_\_  
Contact Address

**DR. SUDERSHAN KUMAR**, Coordinator

|                    |   |   |
|--------------------|---|---|
| <b>Phone</b>       | : | 0522-2204025, 2204026   |
| <b>Fax</b>         | : | 0522-2205673  |
| <b>Email</b>       | : | s.kumar@nbri.res.in   |
| <b>Web Address</b> | : | <a href="http://www.nbri-lko.org">http://www.nbri-lko.org</a> |



## National Dairy Research Institute, Karnal

Training Code No. : NDRI-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Trends in Computational Biology                   |
| <b>Date</b>         | : 18 <sup>th</sup> - 20 <sup>th</sup> October, 2005 |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Bioinformatics & Biocomputing                     |

**OBJECTIVES** : To make aware the researchers regarding the latest development in the field of computational biology.

**CONTENTS** : Modeling of protein structures, sequence alignment, system biology, ANN applications in bioinformatics/ dairying, database concepts, data mining, simulation methods in bioinformatics

**METHODOLOGY** : Lectures/ Demonstration

**LEVEL OF PARTICIPANTS** : Scientists, teachers and Research scholars.

**PRE-REQUISITES** : Basic knowledge of computers and biological sciences

**NUMBER OF PARTICIPANTS** : 10-15

**REGISTRATION FEE** :

| Participants from | Course Fee            |   |
|-------------------|-----------------------|---|
|                   | Without Accommodation | With Accommodation  |
| India             | Rs. 500/-             | Accommodation & Food will be provided in scientist home of the institution on payment basis |
| SAARC             | Rs. 1000/-            |   |
| Other Countries   | Rs. 1000/-            |   |

Contact Address

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**DR. D. K. JAIN**, Coordinator

|                    |   |   |
|--------------------|---|---|
| <b>Phone</b>       | : | 0184-2259014  |
| <b>Fax</b>         | : | 0184-2250042  |
| <b>Email</b>       | : | dkjn@rediffmail.com/<br>anandpruhil@yahoo.com               |
| <b>Web Address</b> | : | <a href="http://www.ndri.res.in">http://www.ndri.res.in</a> |

**National Institute of Oceanography, Goa**

Training Code No. : NIO-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Marine biodiversity data management and computer aided taxonomy |
| <b>Date</b>         | : 17 <sup>th</sup> - 18 <sup>th</sup> November, 2005              |
| <b>Duration</b>     | : 2 days  |
| <b>Subject Area</b> | : Retrieval of Bioinformatics Resources/Databases                 |

**OBJECTIVES** :

- 1 Searching, retrieving and cataloguing of marine biodiversity
- 2 Develop protocol for computer aided taxonomy of different groups of marine organisms

**CONTENTS** :

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

**LEVEL OF PARTICIPANTS** : Scientists, University teaching faculty, Research students

**PRE-REQUISITES** : Post graduation in life sciences

**NUMBER OF PARTICIPANTS** : 25

**REGISTRATION FEE** : Nil

Contact Address

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**DR. C. T. ACHUTHANKUTTY**, Coordinator

|                    |   |   |
|--------------------|---|---|
| <b>Phone</b>       | : | 832-2450219   |
| <b>Fax</b>         | : | 832-2450606   |
| <b>Email</b>       | : | achu@darya.nio.org  |
| <b>Web Address</b> | : | <a href="http://www.Indian-ocean.org/bioinformatics">http://www.Indian-ocean.org/bioinformatics</a> |

## North Eastern Hill University, Shillong

Training Code No. : NEHU-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Database creation & Internet in Biological Applications |
| <b>Date</b>         | : 21 <sup>st</sup> - 23 <sup>rd</sup> September, 2005     |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics        |

**OBJECTIVES** : To familiarize participants in applications of IT resources related to biological data.

**CONTENTS** : Database & Internet

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

**LEVEL OF PARTICIPANTS** : PG Students & above

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 20

**REGISTRATION FEE** :

| Participants from        | Course Fee             |   |
|--------------------------|------------------------|---|
|                          | Without Accommodation  | With Accommodation  |
| India                    | Rs. 500/- (only lunch) | Rs. 660/- (only lunch)<br>(Breakfast & Dinner on payment basis) |
| SAARC<br>Other Countries |                        |   |

Training Code No. : NEHU-02

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Computer & Internet Applications in Bioresource Development |
| <b>Date</b>         | : 22 <sup>nd</sup> - 24 <sup>th</sup> February, 2006          |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Computer Basics and Applications in Bioinformatics          |

**OBJECTIVES** : To familiarize participants in applications of IT resources related to biological data.

**CONTENTS** : Softwares & Internet

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

**LEVEL OF PARTICIPANTS** : PG Students & above

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 20

**REGISTRATION FEE** :

| Participants from        | Course Fee             |   |
|--------------------------|------------------------|---|
|                          | Without Accommodation  | With Accommodation  |
| India                    | Rs. 500/- (only lunch) | Rs. 660/- (only lunch)<br>(Breakfast & Dinner on payment basis) |
| SAARC<br>Other Countries |                        |   |

\_\_\_\_\_  
Contact Address

**PROFESSOR P. TANDON**, Coordinator

|                    |   |
|--------------------|---|
| <b>Phone</b>       | : 0364-2550150  |
| <b>Fax</b>         | : 0364-2550300  |
| <b>Email</b>       | : bioinfo@sancharnet.in   |
| <b>Web Address</b> | : <a href="http://www.nehu.ac.in/bic">http://www.nehu.ac.in/bic</a> |

## Pondicherry University, Pondicherry

Training Code No. : PU-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Bioinformatics and Functional Genomics  |
| <b>Date</b>         | : 15 <sup>th</sup> - 17 <sup>th</sup> February, 2006  |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Bioinformatics and Biocomputing<br>Genomics/Proteomics<br>Bioinformatics - Driving Drug Discovery<br>Developmental activities in Bioinformatics |

**OBJECTIVES** : To train and encourage students, researchers and scientists in bioinformatics to current functional genomics and drug discovery process

**CONTENTS** : Techniques, tools, strategies, structure functions and applications of functional genomics

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

**LEVEL OF PARTICIPANTS** : Post graduates and Researchers

**PRE-REQUISITES** : Basics of Computer knowledge and interested in learning new disciplines

**NUMBER OF PARTICIPANTS** : 30

**REGISTRATION FEE** :

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 1500/-            | Rs. 2500/-         |
| SAARC             | Rs. 3000/-            | Rs. 5000/-         |
| Other Countries   | US \$ 200             | US \$ 250          |

Contact Address

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**DR. P. P. MATHUR**, Coordinator

|                    |   |  |
|--------------------|---|--|
| <b>Phone</b>       | : | 0413-2655212   |
| <b>Fax</b>         | : | 0413-2655211   |
| <b>Email</b>       | : | bicpu2001@yahoo.co.in  |
| <b>Web Address</b> | : | <a href="http://www.pondiuni.org/bioinformatics.html">http://www.pondiuni.org/<br/>bioinformatics.html</a> |

**Punjab Agricultural University, Ludhiana**

Training Code No. : PAU-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Bioinformatics: Applications in Biotechnology       |
| <b>Date</b>         | : 13 <sup>th</sup> - 15 <sup>th</sup> September, 2005 |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Bioinformatics and Biotechnology                    |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To familiarize the application of bioinformatics tools in biotechnology research |
| <b>CONTENTS</b>               | : Bioinformatics tools   |
| <b>METHODOLOGY</b>            | : Lectures, Demos and Hands on session   |
| <b>LEVEL OF PARTICIPANTS</b>  | : Researchers and Students   |
| <b>PRE-REQUISITES</b>         | : M.Sc. Life Science   |
| <b>NUMBER OF PARTICIPANTS</b> | : 15-20  |
| <b>REGISTRATION FEE</b>       | : Rs. 500/-  |



Training Code No. : PAU-02

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Genetic diversity Analysis tools and their applications |
| <b>Date</b>         | : 21 <sup>st</sup> - 23 <sup>rd</sup> February, 2006      |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Bioinformatics and Biotechnology                        |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To familiarize the application of genetic diversity analysis tools |
| <b>CONTENTS</b>               | : Genetic Diversity  |
| <b>METHODOLOGY</b>            | : Lectures, Demos, Hands on session                                  |
| <b>LEVEL OF PARTICIPANTS</b>  | : Researchers and Students   |
| <b>PRE-REQUISITES</b>         | : M.Sc. Life Science   |
| <b>NUMBER OF PARTICIPANTS</b> | : 15-20  |
| <b>REGISTRATION FEE</b>       | : Rs. 500/-  |

\_\_\_\_\_  
Contact Address

**DR. S. C. SHARMA**, Coordinator

|                    |   |   |
|--------------------|---|---|
| <b>Phone</b>       | : | 0161-2411774  |
| <b>Fax</b>         | : | 0161-2401444  |
| <b>Email</b>       | : | scsharma_13@yahoo.com   |
| <b>Web Address</b> | : | <a href="http://www.pau.edu/sdic.index1.htm">http://www.pau.edu/sdic.index1.htm</a> |

## Rajiv Gandhi Centre for Biotechnology, Trivandrum

Training Code No. : RGCB-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Workshop on Molecular Modeling  |
| <b>Date</b>         | : 14 <sup>th</sup> - 17 <sup>th</sup> December, 2005  |
| <b>Duration</b>     | : 4 days  |
| <b>Subject Area</b> | : Retrieval of Bioinformatics Resources/Databases<br>Bioinformatics & Biocomputing<br>Bioinformatics in Genomics & Proteomics<br>Database/Software developmental activities in bioinformatics |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To give training in Molecular modeling   |
| <b>CONTENTS</b>               | : Biomolecular structure databases, Protein structure prediction methods, Molecular modeling, Molecular dynamics, Docking, Structural Genomics, Structure classification methods and derived databases |
| <b>METHODOLOGY</b>            | : Lectures, demos and Hands on session   |
| <b>LEVEL OF PARTICIPANTS</b>  | : Research professional, professors, Lecturers and students  |
| <b>PRE-REQUISITES</b>         | : Nil  |
| <b>NUMBER OF PARTICIPANTS</b> | : 10   |
| <b>REGISTRATION FEE</b>       | :  |

| Participants from                 | Course Fee            |                    |
|-----------------------------------|-----------------------|--------------------|
|                                   | Without Accommodation | With Accommodation |
| India<br>SAARC<br>Other Countries | Rs. 2000/-            |                    |

**ANY OTHER RELEVANT INFORMATION, IF ANY** : Summer training on Genomics & Proteomics for M.Sc./Graduate students for a period of 60 days from January 15<sup>th</sup> to March 15<sup>th</sup>, 2006

\_\_\_\_\_  
Contact Address

**DR. D. KARUNAGARAN**, Coordinator

|                    |   |                       |
|--------------------|---|-----------------------|
| <b>Phone</b>       | : | 0471-2347975, 2341716 |
| <b>Fax</b>         | : | 0471-2348096          |
| <b>Email</b>       | : | disc@rgcb.res.in      |
| <b>Web Address</b> | : | www.rgcb.res.in       |

## Regional Research Laboratory, Jammu

Training Code No. : RRLJ-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Bioinformatics in Drug Discovery                        |
| <b>Date</b>         | : December, 2005 (Dates are not yet finalised)            |
| <b>Duration</b>     | : 2 days  |
| <b>Subject Area</b> | : Genomics/Proteomics<br>Bioinformatics in Drug Discovery |

|                               |   |
|-------------------------------|---|
| <b>OBJECTIVES</b>             | : To expose participants with different bioinformatics tools and their applications in understanding biological system. |
| <b>CONTENTS</b>               | : Biological databases, nucleic acid, protein sequencing analysis and molecular modeling                                |
| <b>METHODOLOGY</b>            | : Lectures, Demonstration and hands on session.   |
| <b>LEVEL OF PARTICIPANTS</b>  | : Scientists, teachers, research scholars and technical persons   |
| <b>PRE-REQUISITES</b>         | : Nil   |
| <b>NUMBER OF PARTICIPANTS</b> | : 15  |
| <b>REGISTRATION FEE</b>       | : Rs. 1000/-  |

## Contact Address

DR. G. N. QAZI, Coordinator

|                    |  |
|--------------------|--|
| <b>Phone</b>       | : 0191-2570526                                   |
| <b>Fax</b>         | : 0191-2546030                                   |
| <b>Email</b>       | : abr19787@yahoo.com/<br>abdulrahim602@gmail.com |
| <b>Web Address</b> | : www.rrljammu.org                               |

## State Council of Science & Technology for Sikkim, Gangtok

Training Code No. : SCSTS-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Computational Biology & Introduction to Biogrid   |
| <b>Date</b>         | : 22 <sup>nd</sup> - 23 <sup>rd</sup> September, 2005   |
| <b>Duration</b>     | : 2 days  |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics<br>Networks & Applications in Bioinformatics<br>Bioinformatics & Biocomputing<br>Retrieval of Bioinformatics Resources/Databases |

**OBJECTIVES** : To acquaint the participants with the basics of computational biology, bioinformatics and its usage.

**CONTENTS** : MS-Office, MS-Access, Frontpage, Biogrid, Introduction to Bioinformatics and its scope

**METHODOLOGY** : Lectures, Workshop.

**LEVEL OF PARTICIPANTS** : Research Scholars, Scientists and Lecturers

**PRE-REQUISITES** : Minimum qualification (B.Sc./M.Sc./Ph.D.)

**NUMBER OF PARTICIPANTS** : 20-25

**REGISTRATION FEE** :

| Participants from | Course Fee   |   |
|-------------------|--|---|
|                   | Without Accommodation                              | With Accommodation  |
| India             | Rs. 500/- for Students<br>Rs. 1000/- for Employees | Accommodation shall be arranged on request. The participants shall make the payments. |
| SAARC             | -  | -   |
| Other Countries   | -  | -   |

Contact Address

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**SHRI B. C. BASISTHA**, Coordinator

|              |   |  |
|--------------|---|--|
| <b>Phone</b> | : | 919434109894   |
| <b>Fax</b>   | : | 03592-228764   |
| <b>Email</b> | : | btis_skm@yahoo.com/<br>singhiop@indiatimes.com/<br>shobar_99@hotmail.com |

**Tamilnadu Agricultural Univeristy, Coimbatore**

Training Code No. : TAU-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Databases and its applications in Agriculture    |
| <b>Date</b>         | : 03 <sup>rd</sup> - 04 <sup>th</sup> August, 2005 |
| <b>Duration</b>     | : 2 days   |
| <b>Subject Area</b> | : Bioinformatics in Crop improvement               |

- OBJECTIVES** : To introduce biological databases and its applications among the research community.
- CONTENTS** : 1 Introduction and classification of databases  
2 Structure of databases  
3 Generation of databases  
4 Information retrieval
- METHODOLOGY** : Lectures, Demons and Hands on session
- LEVEL OF PARTICIPANTS** : Students and scientists working in State Agricultural Universities, ICAR and other institutions.
- PRE-REQUISITES** : M.Sc. or Ph.D. in Plant Sciences
- NUMBER OF PARTICIPANTS** : 15
- REGISTRATION FEE** : Rs. 250/-

Training Code No. : TAU-02

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Genomics and Genome Annotation                     |
| <b>Date</b>         | : 12 <sup>th</sup> - 13 <sup>th</sup> December, 2005 |
| <b>Duration</b>     | : 2 days   |
| <b>Subject Area</b> | : Bioinformatics in Genomics and Proteomics          |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To impart basic knowledge on genomics and introduce the bioinformatics tools for genome annotation.  |
| <b>CONTENTS</b>               | : <ol style="list-style-type: none"><li>1 Genetic and physical mapping</li><li>2 Approaches to genome sequencing</li><li>3 Gene prediction methods</li><li>4 Analysis of upstream regulatory elements</li><li>5 Identification of repeat sequences</li></ol> |
| <b>METHODOLOGY</b>            | : Lectures, Demonstration & Hands on session.  |
| <b>LEVEL OF PARTICIPANTS</b>  | : Students and scientists of State Agricultural Universities, ICAR and other institutions.   |
| <b>PRE-REQUISITES</b>         | : M.Sc. or Ph.D. in Plant Sciences   |
| <b>NUMBER OF PARTICIPANTS</b> | : 15   |
| <b>REGISTRATION FEE</b>       | : Rs. 250/-  |

\_\_\_\_\_  
Contact Address

**DR. P. BALASUBRAMANIAN**, Coordinator

|                    |   |                        |
|--------------------|---|------------------------|
| <b>Phone</b>       | : | 0422-5511453           |
| <b>Fax</b>         | : | 0422-2431672           |
| <b>Email</b>       | : | balasubrap@hotmail.com |
| <b>Web Address</b> | : | www.cpmbtnau.org       |



**Tamilnadu Veterinary and Animal Sciences  
Univeristy, Chennai**

Training Code No. : TNVASU-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Training Programme on "Bioinformatics & Information Technology"  |
| <b>Date</b>         | : 23rd - 27 <sup>th</sup> May, 2005  |
| <b>Duration</b>     | : 5 days   |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics<br>Networks & Applications in Bioinformatics<br>Bioinformatics & Biocomputing<br>Retrieval of Bioinformatics Resources/Databases<br>Developmental Activities in Bioinformatics<br>Protein Structure & Sequence Analysis<br>Molecular Modeling |

- OBJECTIVES** : To update the computer skills and knowledge of scientists & teaching faculties in the area of bioinformatics, information technology and information retrieval system.
- CONTENTS** : 1 Bioinformatics & Application of IT for R & D  
2 Retrieval of Databases  
3 Networking of Information Resources  
4 Molecular Modeling  
5 Livestock Genomics  
6 Biological databases  
7 Biological Sequence Analysis
- METHODOLOGY** : Lectures, Demos and Hands on session
- LEVEL OF PARTICIPANTS** : Scientists, Research Scholars and teaching faculties of various disciplines.
- PRE-REQUISITES** : Knowledge of computer operation preferable
- NUMBER OF PARTICIPANTS** : 25

**REGISTRATION FEE :**

| Participants from | Course Fee            |                    |
|-------------------|-----------------------|--------------------|
|                   | Without Accommodation | With Accommodation |
| India             | Rs. 1500/-            | -                  |
| SAARC             | Rs. 1500/-            | -                  |
| Other Countries   | US \$ 100/-           | -                  |

**AVAILABILITY OF BOARDING & LODGING ARRANGEMENTS** : All participants must make their own boarding and lodging arrangements.

**TRAVEL ARRANGEMENTS** : Participants must make their own travel arrangements.

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 Contact Address
 

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**DR. G. THULASI**, Coordinator

|                    |   |                              |
|--------------------|---|------------------------------|
| <b>Phone</b>       | : | 044-25360106, 25365418       |
| <b>Fax</b>         | : | 044-25360106                 |
| <b>Email</b>       | : | btismvc@giasmd01.vsnl.net.in |
| <b>Web Address</b> | : | http://www.tanuvas.org       |

**Tropical Botanic Garden and Research Institute,  
Thiruvananthapuram**

Training Code No. : TBGRI-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Workshop on "Interlinking of Related Biodiversity Databases" |
| <b>Date</b>         | : 03 <sup>rd</sup> - 07 <sup>th</sup> October, 2005            |
| <b>Duration</b>     | : 5 days   |
| <b>Subject Area</b> | : Biodiversity Database Management                             |

- OBJECTIVES** : To make awareness among the scientists and researchers about the need of interlinking related biodiversity databases of the nation
- CONTENTS** : Knowledge related to the complexity in biodiversity data, an inventory of the biodiversity databases, biodiversity data management tools, technical aspects related to database interlinking methods, identifying the merits and demerits of the same, demonstration of softwares developed by the centre for interlinking biodiversity databases like "Plant Info", "Garden Info" and "Seed Pack".
- METHODOLOGY** : Lectures, demos and Hands on session
- LEVEL OF PARTICIPANTS** : Teachers, Scientists and Researchers
- PRE-REQUISITES** : Working in the area biodiversity documentation with a background of bioinformatics
- NUMBER OF PARTICIPANTS** : 10
- REGISTRATION FEE** : Rs. 1000/-

Training Code No. : TBGRI-02

|                     |   |
|---------------------|---|
| <b>Title</b>        | : "Advance training on Digitalization of Plant Biodiversity Data" |
| <b>Date</b>         | : 15 <sup>th</sup> - 16 <sup>th</sup> December, 2005              |
| <b>Duration</b>     | : 2 days  |
| <b>Subject Area</b> | : Biodiversity Database Management                                |

**OBJECTIVES** : To give an advanced training to the staff of TBGRI for the digitalization of biodiversity data.

**CONTENTS** : Preperation of database structure for collecting the biodiversity data, organization of data into the in-house developed software, digitalization of biodiversity data, data management tools, problems and finding out solutions for the data integration and incorporation of database in the website

**METHODOLOGY** : Lectures, hands on session and training

**LEVEL OF PARTICIPANTS** : Scientific and technical officers working on biodiversity documentation of TBGRI

**PRE-REQUISITES** : Nil

**NUMBER OF PARTICIPANTS** : 10

**REGISTRATION FEE** : Nil

\_\_\_\_\_  
Contact Address

**DR. P. N. KRISHNAN**, Coordinator

|                    |   |                                     |
|--------------------|---|-------------------------------------|
| <b>Phone</b>       | : | 0472-2869622, 2753050               |
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| <b>Web Address</b> | : | www.tbgri.org/ www.bioinfotbgri.org |

**University of Agricultural Sciences, Mangalore**

Training Code No. : UAS-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Application of Bioinformatics in Aquatic Sciences |
| <b>Date</b>         | : 07th - 09 <sup>th</sup> November, 2005            |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Marine Biotechnology                              |

|                               |  |
|-------------------------------|--|
| <b>OBJECTIVES</b>             | : To introduce the tools of bioinformatics to scientists working in fisheries and aquatic sciences   |
| <b>CONTENTS</b>               | : Tools of bioinformatics - DNA sequence analysis, prediction of protein structure and function. Genomes of aquatic animals, phylogenetic analysis, DNA fingerprinting. Bioinformatics in vaccine design, drug discovery. Functional genomics, DNA chips and their applications. |
| <b>METHODOLOGY</b>            | : Lectures, Demonstration, Hands on session  |
| <b>LEVEL OF PARTICIPANTS</b>  | : Teachers, Scientists and Researchers   |
| <b>PRE-REQUISITES</b>         | : Working in the area of fisheries/ aquatic sciences   |
| <b>NUMBER OF PARTICIPANTS</b> | : 15   |
| <b>REGISTRATION FEE</b>       | : Nil  |

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 Contact Address
 

---

DR. I. KARUNASAGAR, Coordinator

|                    |  |
|--------------------|--|
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| <b>Web Address</b> | : <a href="http://www.mircenbiotech.com">www.mircenbiotech.com</a> |

## University of Delhi South Campus, New Delhi

Training Code No. : DUSC-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Workshop on Phylogenetic analysis   |
| <b>Date</b>         | : 2 <sup>nd</sup> - 4 <sup>th</sup> March, 2006   |
| <b>Duration</b>     | : 3 days  |
| <b>Subject Area</b> | : Computer Basics & Applications in Bioinformatics<br>Bioinformatics & Biocomputing<br>Retrieval of Bioinformatics Resources/Databases<br>Genomics/Proteomics |

- OBJECTIVES** : To train biology researchers to carry out phylogenetic analysis.
- CONTENTS** : Implementation of PHYLIP package.
- METHODOLOGY** : Analysis of set of sequences of participants choice for different type of distance based (such as UPGMA, neighbor joining), character based (such as MP, ML) methods and Bayesian methods.
- LEVEL OF PARTICIPANTS** : Faculty members and Ph.D. Students.
- PRE-REQUISITES** : Will be sent after the organisation of the workshop has reached a certain level.
- NUMBER OF PARTICIPANTS** : Will be around 150
- REGISTRATION FEE** : Nil

## Contact Address

PROFESSOR ANIL K. TYAGI, Coordinator

|              |   |  |
|--------------|---|--|
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| <b>Fax</b>   | : | 011-26885270                                 |
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**University of Kashmir, Srinagar**

Training Code No. : KU-01

|                     |  |
|---------------------|--|
| <b>Title</b>        | : Bioinformatics: Computer Methods in Biology  |
| <b>Date</b>         | : 5 <sup>th</sup> - 7 <sup>th</sup> September, 2005  |
| <b>Duration</b>     | : 3 days   |
| <b>Subject Area</b> | : Interface between Biology and Bioinformatics tools and Techniques<br>Retrieval of Bioinformatics Resources/Databases |

- OBJECTIVES** : The objective of the programme is to make the participants aware of the various tools available online and otherwise for the study of various aspects of Biology, Molecular Biology. Computational techniques and their application will also be the highlight of the programme.
- CONTENTS** : Bioinformatics tools, databases, Analysis of protein and DNA sequences, WWW based services.
- METHODOLOGY** : Lectures, Demos, Hands on session
- LEVEL OF PARTICIPANTS** : Scientist and researchers from Biosciences field.
- PRE-REQUISITES** : Participants must have a basic working knowledge of biochemistry and molecular biology, a basic familiarity with computer.
- NUMBER OF PARTICIPANTS** : 10-15
- REGISTRATION FEE** :

| Participants from | Course Fee            |   |
|-------------------|-----------------------|---|
|                   | Without Accommodation | With Accommodation  |
| India             | Rs. 500/-             | Rs. 500/- plus accomodation charges to be intimated later   |
| SAARC             | US \$ 100/-           | US \$ 100/- plus accomodation charges to be intimated later |
| Other Countries   | -DO-                  | -DO-  |

\_\_\_\_\_  
Contact Address

**PROFESSOR AKBAR MASOOD**, Coordinator

|                    |   |                                   |
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| <b>Email</b>       | : | akbarmasood@kashmiruniversity.net |
| <b>Web Address</b> | : | www.bioinfoku.org                 |



## University of Pune, Pune

Training Code No. : PUNE-01

|                     |   |
|---------------------|---|
| <b>Title</b>        | : Knowledge discovery in life sciences: Structure based bioinformatics approach |
| <b>Date</b>         | : 12 <sup>th</sup> - 15 <sup>th</sup> December, 2005                            |
| <b>Duration</b>     | : 4 days  |
| <b>Subject Area</b> | : Bioinformatics in Medical Sciences  |

- OBJECTIVES** : The workshop would provide a review of the available databases, computational methodologies and tools for data mining at the structure level.
- CONTENTS** : Biomolecular structure databases, structure classification methods and derived databases, structure prediction methods, introduction to molecular modeling and simulations, structural genomics
- METHODOLOGY** : Lectures, Demonstrations & Hands on session
- LEVEL OF PARTICIPANTS** : Professionals from academia and industry, scientists/research students
- PRE-REQUISITES** : Knowledge of sequence databases and sequence based bioinformatics approaches
- NUMBER OF PARTICIPANTS** : 40
- REGISTRATION FEE** :

| Participants<br>from                  | Course Fee               |                       |
|---------------------------------------|--------------------------|-----------------------|
|                                       | Without<br>Accommodation | With<br>Accommodation |
| <b>India</b>                          |                          |                       |
| 1. Academic/Research<br>organisations | Rs. 2000/-               |                       |
| 2. Industrial/<br>Commercial Organiz. | Rs. 5000/-               |                       |
| <b>SAARC</b> US \$ 350                |                          |                       |
| <b>Other Countries</b> US \$ 550      |                          |                       |

---

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**PROFESSOR PRAMOD KHANDEKAR**, Coordinator

|                    |   |                          |
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| <b>Web Address</b> | : | http://bioinfo.emet.in   |

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**NOMINATION FORM FOR TRAINING**

Course Code : .....

Applicant's Name : .....

Designation : .....

RegistrationNo. (If allotted) : .....

Name of Organization/Department : .....

Category : .....

Official Address : .....

.....

.....

.....

Telephone No. : .....

Fax No. : .....

Email Address : .....

.....

Computer Related Experience : .....

Details of Experience : .....

**Signature of Applicant**

**INSTRUCTION TO CANDIDATE**

- 1 *The complete application should be sent to the Co-ordinator of the respective bioinformatics centre at least a month before commencement of the training.*
- 2 *Incomplete application form and the application not submitted through proper channel are likely to be rejected. Please contact the coordinator for any requirements of course fee (if any), accomodation arrangements, etc.*



# **Department of Biotechnology**

Ministry of Science & Technology

Govt. of India

## **EDITORIAL TEAM**

1. Sh. U.N. Behera
2. Dr. T. Madhan Mohan
3. Dr. Gulshan Wadhwa
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Ministry of Science & Technology, Govt. of India



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Foreword

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## FOREWORD

Modern biology has attained explosive growth within a short period. Thanks to the efforts of information experts, computer technologists and biologists in shaping the new discipline 'Bioinformatics', has played a significant role in rapid advancement in modern biotechnology. Today Bioinformatics has become an indispensable component for augmenting research and developments in all areas of biological sciences. This provides computational tools and algorithms for the management and finger tip access besides evaluation of biological information and theoretical solutions to solve complex problems in biological sciences.

Department of Biotechnology, Govt. of India had foreseen the importance of Bioinformatics since its beginning and started a Biotechnology Information System Network (BTISnet) in 1987. The main goal of BTISnet is to harness the scientific knowledge for rapid advancement in biotechnology and sustainable utilization of the biological resources. Since Bioinformatics is an emerging area its usage has become inevitable to the researchers especially who are involved in molecular biology and biotechnology. In order to make the researchers and students familiar with innovative developments in Bioinformatics, the BTISnet Centres organize various short-term training courses.

It is well acknowledged that lack of quality manpower is the main problem in Bioinformatics. To facilitate creation of high quality manpower in this area, DBT has been conducting Advanced Diploma course in Bioinformatics in five Universities. Two more institutions are also conducting M.Tech courses in Bioinformatics. This year the Bioinformatics centre at JNU is going to start research oriented training programmes for Advanced Diploma holders and Post-doctoral training programmes in computational biology and Bioinformatics.

For last six years DBT has been receiving the inputs on training details from the BTISnet centres and publishing it in the form of a calendar for wide spread benefit of this endeavor. This year seventy eight training programmes are going to be organized and I am very much delighted to note that this year the centers have elevated the quality of training and I am sure that will help in novel research programmes in Bioinformatics.

**Dr. M. K. Bhan**

Secretary

Department of Biotechnology, Govt. of India

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**BIOINFORMATICS  
CENTRES UNDER  
BTISNet  
PROGRAMME**