



BIF Training Programme

Department Of Computer Science
Jamia Millia Islamia
Jamia Nagar
New Delhi-25

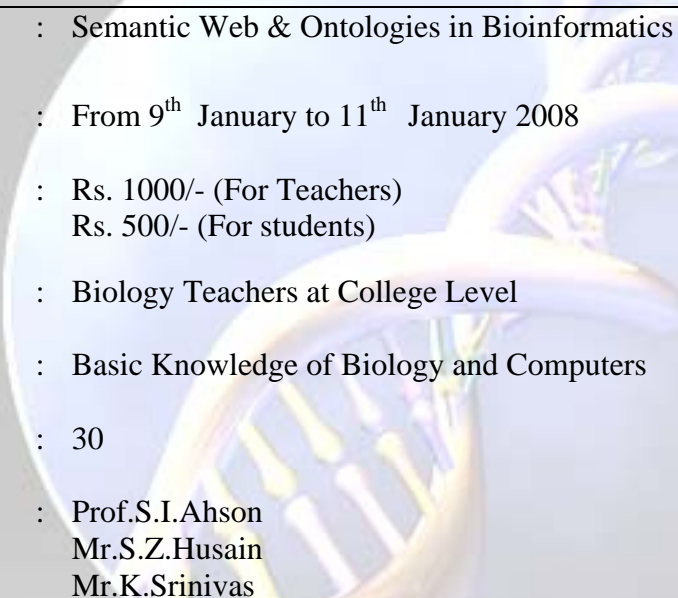
BIF Centre
Training Programme in Bioinformatics
JAMIA MILLIA ISLAMIA, NEW DELHI-110025

The BIF Centre of Jamia Millia Islamia, New Delhi announces the following two short training programs for University/College level Biology Faculty members for updating their knowledge in two important areas of Bioinformatics.

Title	: Databases and Data Mining in Bioinformatics
Date	: From 14 th November to 16 th November 2007
REGISTRATION FEE	: Rs. 1000/- (For Teachers) Rs. 500/- (For students)
LEVEL OF PARTICIPANTS	: Biology Teachers at College Level
REQUIREMENTS	: Basic Knowledge of Biology and Computers
NUMBER OF PARTICIPANTS	: 30
RESOURCE PERSONS	: Prof.S.I.Ahson Mr.S.K.Naqvi Dr.R.Parveen Dr.Jayanthi Ranjan Dr.T.V.Prasad

COURSE CONTENTS :

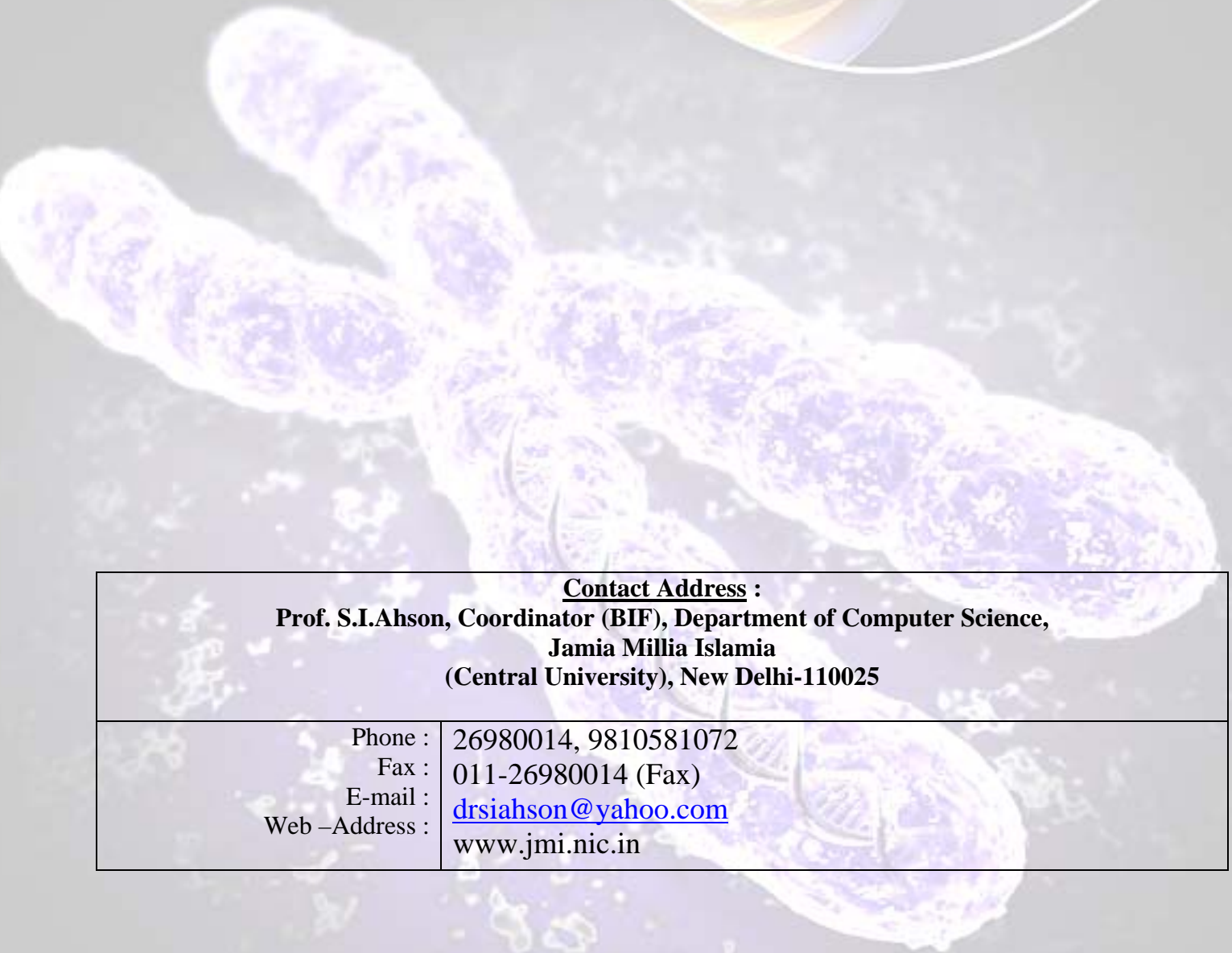
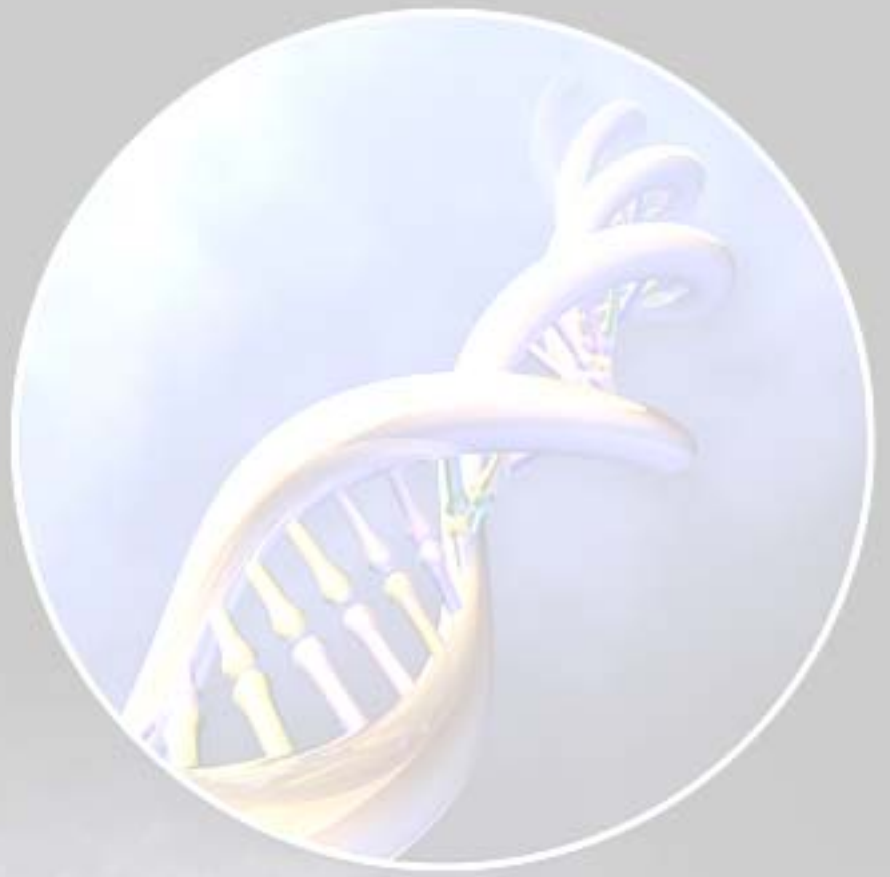
Data Types and Databases in Molecular Biology: Data types in Molecular Biology, Gene Expression Data, Sequence Databases, Structure Databases; Pathway Databases (ENZYME, KEGG), dbSNP, SCOP, CATH etc. Pattern Representations and Characterization. Pattern Discovery and Sequence Classification in Proteins, Pattern Discovery and Sequence Classification in Nucleic Acid. Clustering and Classifications: Microarray Technology, Clustering of Microarray Data, Applications in Disease Diagnosis, Statistical Methods, Machine Learning Methods.



Title	: Semantic Web & Ontologies in Bioinformatics
Date	: From 9 th January to 11 th January 2008
REGISTRATION FEE	: Rs. 1000/- (For Teachers) Rs. 500/- (For students)
LEVEL OF PARTICIPANTS	: Biology Teachers at College Level
REQUIREMENTS	: Basic Knowledge of Biology and Computers
NUMBER OF PARTICIPANTS	: 30
RESOURCE PERSONS	: Prof.S.I.Ahson Mr.S.Z.Husain Mr.K.Srinivas

COURSE CONTENTS :

Introduction to Ontologies:Traditional Structural Databases, Hierarchical Organisation, Creating and updating XML, XML Schema, XML Data, XML Topic Maps, XML in Bioinformatics, RDF(Resource Description Framework);**Ontologies in Bioinformatics:**GO(Gene Ontology),Macromolecular sequence data bases, Structural Databases, Species –specific databases, Specialized Protein Databases,Pathways **Databases.;** **Query Language:** XML navigation using XPath,Querying XML Using XQuery, Transforming XML to XML, XML Transformation Language(XSLT); **Building Bioinformatics Ontologies :** Selecting Ontology Language, Ontology Development Tools, Acquiring Domain Knowledge, Designing the Concept Hierarchy, Designing the Properties, Validating and Modify the Ontology; **Reasoning with Uncertainty:** Bayesian Network Formalism,Bayesian Requirements,Building Bayesian Networks from Components,Ontologies as BNs, Interoperability.



Contact Address :

**Prof. S.I.Ahson, Coordinator (BIF), Department of Computer Science,
Jamia Millia Islamia
(Central University), New Delhi-110025**

Phone :	26980014, 9810581072
Fax :	011-26980014 (Fax)
E-mail :	drsiahson@yahoo.com
Web -Address :	www.jmi.nic.in