

FORMAT OF APPLICATION FORM FOR PARTICIPATION IN TRAINING

National Training on "Current Approaches and Applications of Bioinformatics in Agricultural Research" sponsored by NAIP organized at Central Tuber Crops Research Institute during 28 March to 6 April, 2011

1. Full Name (in block letters) :
2. Designation :
3. Present employer and address :
4. Address to which reply should be sent : (in block letters) (Give phone, mobile, fax & email id)
5. Permanent address :
6. Date of Birth :
7. Sex: Male/Female :
8. Teaching/research/professional experience (mention post held during last 5 years and number of publications)
9. Mention if you have participated in any Training Course during the previous years under ICAR/ other organizations :
10. Need for this training and how it will help in our research activities:
11. Academic record

Examination passed	Subjects main/sub subsidiary	Year of passing	Class ranks, distinctions etc.	University or Institution	Other information
Bachelor's degree					
Master's degree					
Doctoral degree					
Other certificates, diploma, degree, if any					

12. Programming experience

Date _____ Signature of the applicant
Place _____

13. Recommendations of forwarding Institute :

Date _____ Signature
Designation, Address _____

Important Dates

1. Last date of receiving applications :
28th February 2011
2. Confirmation of participation :
5th March 2011



All correspondence must be addressed to

Dr.J.Sreekumar
Senior Scientist & Course Director
Central Tuber Crops Research Institute
Sreekariyam
Thiruvananthapuram- 695 017, Kerala

Phone : 0471—2598551 to 2598554 Extn 121
Mobile—09447011719

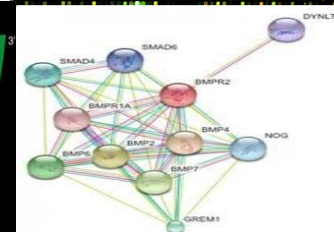
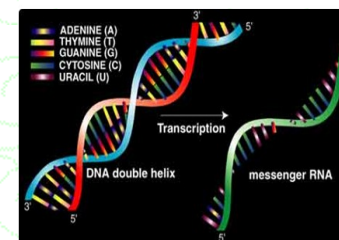
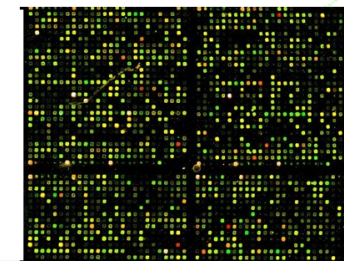
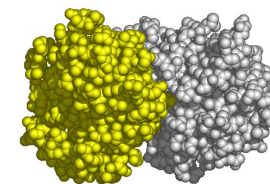
Email: sreejyothi_in@yahoo.com

Website : www.ctcri.org



National Training Course on Current Approaches and Applications of Bioinformatics in Agricultural Research (Sponsored by NAIP, New Delhi)

28 March to 6 April, 2011



Dr.J.Sreekumar
Course Director



Section of Extension Social Sciences
Central Tuber crops Research Institute
Thiruvananthapuram-695 017 , Kerala



About the training.....

Bioinformatics combines expertise and technologies from molecular biology, data analysis, database technology and information technology. At the basic level bioinformatics is used to organize biological data to help the researchers to access information. Molecular biologists study the flow of genetic information from genome to phenotype of the organism. Information containing molecules that biologists study includes DNA, RNA and protein. A lot of effort goes nowadays towards system biology which is an integrated multidisciplinary approach study pathways and networks which includes dynamic modeling of pathways and even the cell. Bioinformatics plays a key role in such studies.

The Prime objective of this National Training course is to understand the basics of Bioinformatics and its role in agricultural research. The training will provide insight into current approaches and tools that are used to mine and obtain knowledge from biological data. This will include sequence analysis, analysis of protein structures, protein-protein interactions, as well as gene expression data analysis. During the course, various biological databases will be introduced and bioinformatics tools and current approaches will be demonstrated. These approaches are highly relevant as they are needed to make sense of the currently exploding amount of genome sequence data for agricultural species.

Course content

- ◆ An Introduction to Bioinformatics: Concepts, Historical milestones, bioinformatics in modern biology, Bioinformatics Databases
- ◆ Introduction to programming languages
- ◆ Molecular Sequence Analysis : Sequence conservation , protein sequence motifs, prediction of protein properties based on sequence data
- ◆ Predicting functional structures: Protein structure, protein-protein docking, protein ligand docking
- ◆ Machine learning techniques in relation to protein structures.
- ◆ Molecular interactions: Prediction of protein-protein interactions (both structure based and sequence based) and its application in Agricultural Research.
- ◆ Gene expression data analysis
- ◆ Metabolic and molecular regulatory networks: Interactions & pathways, Analysis of Metabolic pathway data and its applications in agricultural research

Faculty details

Resource persons are both International (Dr. A.D.J. van Dijk and Dr. Prasad Gajula, Applied Bioinformatics, WUR, The Netherlands) and Scientists from ICAR Institutes and SAU's.

Number of Eligible Participants

Twenty two participants will be selected for the training with a) Masters degree in any branch of Agricultural Sciences, Biotechnology, Biochemistry, Organic Chemistry preferably with working knowledge in Bioinformatics. b) Working not below the rank of Scientist / Asst. Professors in ICAR/ SAU's

Travel and accommodation

Accommodation will be provided at CTCRI guest house in room sharing basis and wholesome meals will be provided. The participants will be paid travel fare to and fro journey by rail/ bus / public transport on production of tickets as per the entitlement restricted to AC II tier train fare.

Applications Submission

Application form of the prescribed format (can be downloaded from [ctcri website www.ctcri.org](http://ctcri.org)) may be sent through proper channel so as to reach before 28 February 2011.

The selected candidates will be informed by FAX/ speed post /email by 5th March 2011. Applications received by email should be followed by duly forwarded hard copy sent to Dr.J.Sreekumar Senior Scientist & Course Director, Central Tuber Crops Research Institute,Sreekariyam, Thiruvananthapuram- 695 017, Kerala

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11. Academic record

Examination passed	Subjects main/subsidiary	Year of passing	Class ranks,	University	Other information
Bachelor's degree					
Master's degree					
Doctoral degree					
Other certificates, diploma, degree, if any					

12. Level of knowledge in Programming :

Date

Place

Signature of the applicant

13. Recommendations of forwarding Institute :

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Date

Signature

Designation, Address