

Three Day Workshop on “Unix for Biologists”

22nd – 24th January 2018



B.S. Abdur Rahman

Crescent

Institute of Science & Technology

Deemed to be University u/s 3 of the UGC Act, 1956
GST Road, Vandalur, Chennai 600 048

About the School

School of Life Sciences at B.S.Abdur Rahman Crescent Institute of Science and Technology has been established with twin objectives of making the campus cross disciplinary and initiating teaching, research and training programs across the areas of life sciences. The school has been visualized to emerge as a hub for state of the art research in all fields related to Bioinformatics, Molecular Biology, Bio-Chemistry, Microbiology, Bio-Technology, Cancer Biology, and Genetics etc., through sponsored projects from industries and Government agencies. It has also been visualized to be a training centre for scientists, researchers, clinical staff of hospitals, industry workers in advanced laboratory techniques with hands on experience, through short term intensive programs. The school offers Undergraduate, Postgraduate and Doctoral programmes in Life Sciences. For more information please visit www.bsauniv.ac.in

About the workshop

The terminal interface in UNIX, the environment on which the operating systems Linux and Mac are built, is a central tool for processing and managing biological data. It inherently provides a variety of programs and commands for performing text-file manipulation, and is frequently the main platform for more advanced bioinformatic tools. Large processing clusters are also often based on a UNIX environment. Basic knowledge of how to navigate, manage data and perform data processing in UNIX is a highly useful and versatile skill for anyone working with biological data. It is also a crucial skill to have when working with command-line based bioinformatic softwares.

Workshop Content

The workshop will offer **hands on training to all the participants** and cover the following topics:

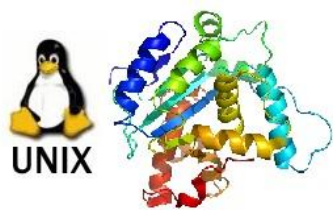
Background and introduction to UNIX, Navigation and file management in the UNIX file system, Working with bioinformatic file formats (FASTA, FASTQ, GFF) using UNIX commands, Editing Protein Data Bank files using UNIX commands, Protein Structure Visualization and Analysis using UNIX commands, Setting up biomolecular simulations using UNIX commands, Linking multiple UNIX commands together using streams and pipes, Processing multiple files in a single command, Automation of tasks using UNIX shell scripting, Advanced SED and AWK scripts to manage bioinformatic file formats.

Prerequisites

No previous knowledge in UNIX is required. The target audience is biologists/Chemists.

Invited Guest Speakers: Prof. Mukesh Doble and Prof. Michael Gromiha, Department of Biotechnology, Indian Institute of Technology, Madras.

Resource person – Dr.M.S.Shahul Hameed, Assistant Professor, B.S.Abdur Rahman Crescent Institute of Science and Technology, Chennai



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Course fee: For UG/PG students - INR 2000/- per participant, For Research Scholars and Faculty / Staff – INR 2500/- per participant.

Fee includes workshop manual, certificate, and refreshment. Free DVD for installing latest Ubuntu Unix Operating System and other related softwares will be provided to the participants.

Instruction to participants: Total number of participants will be 30; Boarding and lodging can be arranged based on request.

Fee Payment details:

For Account transfer: Indian Overseas Bank, Acc No. 165701000019853, IFSC ode: IOBA0001657 in favour of
Dean, School of Life Sciences, B.S.Abdur Rahman Crescent Institute of Science and Technology .

For Demand draft: DD should be drawn in favour of Dean, School of Life Sciences, B.S.Abdur Rahman Crescent Institute of Science and Technology payable at Vandalur, Chennai.

For cheque: Cheque towards Dean, School of Life Sciences, B.S.Abdur Rahman Crescent Institute of Science and Technology, payable at Vandalur, Chennai.

Venue : Conference Hall and Computer Lab at SLS, B.S.Abdur Rahman Crescent Institute of Science and Technology, Adjacent to Anna Zoological Park.

For further communications contact

Convener	Organizing Secretary	Last date for Registration:
Prof. S. Hemalatha Dean School of Life Sciences (SLS) B.S.Abdur Rahman Crescent Institute of Science and Technology, Chennai Phone: 044-22759223 Ext. 215 Email: dean.sls@bsauniv.ac.in	Dr.M.S.Shahul Hameed, Asst. Prof., School of Life Sciences (SLS) B.S.Abdur Rahman Crescent Institute of Science and Technology, Chennai Phone: 044-22759223 Ext 380 E mail: shahulhameed.sls@bsauniv.ac.in	18 th January 2018 Workshop date: 22nd - 24th Jan 2018

REGISTRATION FORM

Three Day Workshop on “UNIX for BIOLOGISTS” 22nd January to 24th January 2018, Venue – School of Life Sciences

NAME :
Mobile Number and email ID :
UG or PG or PHD or Staff :

Bank Transfer Details:

Name of the Bank : _____
Account number : _____
Amount transferred : _____
Type of Transfer : _____
Transaction details(Number) : _____

DD Details:

Name of the Bank : _____
Account number : _____
Amount (Rs) : _____
DD number : _____

For Account transfer: Indian Overseas Bank, Acc No. 165701000019853, IFSC ocde: IOBA0001657 in favour of Dean, School of Life Sciences.

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Please fill this form and mail it to shahulhameed.sls@bsauniv.ac.in (Organizer)