

1st National Training

Course on

“Molecular Methods in Biotechnology”

(December 08-12, 2014)

Course Contents:

- Isolation and purification of microorganisms of industrial, environmental, agricultural, clinical importance
- Identification of microorganisms based on sequencing of marker genes.
- DNA Isolation from plant, microbes, blood and algae
- Gel Electrophoresis for DNA Analysis
- Polymerase Chain Reaction (PCR)
- Molecular Cloning; Gene amplification, purification, Ligation into vectors
- Transformation of recombinant vectors to *E. coli*
- Screening of positive transformants
- Clone Confirmation
- Phylogenetic analyses and Phylogenetic tree construction based on DNA sequences

Who Can Apply?

MS/PhD scholars from Microbiology, Biochemistry, Zoology, Botany, Medical Sciences, Bioinformatics, Environmental Sciences, Food Sciences, Agriculture or equivalent disciplines, may apply

Maximum anticipated participants; 25

Registration Fee

- PKR 2000 (It will partially help to meet the consumable expenses)
- Registration Fee also covers workshop material (A bag, writing notebook, certificate, lunches during all workshop days, tea and coffee during discussion sessions)
- NO TA/DA will be provided to the participants

Important Dates

- Last Date to apply; 25th November, 2014
- Acceptance Notification; 1st December, 2014 (via e-mail)

Accommodation

Twin bed shared accommodation may be provided to some of the selected participants that also includes breakfast during workshop days.

How to Apply?

Please fill in the prescribed form and send (along with a the recent CV and a photograph) it to any of the following E-mail IDs. The registration fee may be submitted directly to organizers upon notification of acceptance.

Patron-in-Chief

Prof. Dr. Muhammad Zuber

Vice Chancellor

Convener

Prof. Dr. Farhat Abbas

Dean, Faculty of Engineering
Director ORIC,

Co-convener

Dr. Asma Haque

Associate Professor
Coordinator,
Department of Bioinfo. & Biotechnology

Principal Organizers

Dr. Muhammad Aamer Mehmood

(Assistant Prof. Dept. Bioinfo. & Biotechnology
Manager Research Development, ORIC)

Dr. Muhammad Ibrahim

(Manager Research Operations, ORIC)

Dr. Khadim Hussain

(Assistant Prof. Dept. Bioinfo. & Biotechnology)

Mr. Muhammad Salman Mansoor

(Manager, University-Industry Linkage, ORIC)



Jointly Organized by

Department of Bioinformatics & Biotechnology
& Office of Research, Innovation & Commercialization (ORIC)
Government College University Faisalabad



About GCUF

GC University Faisalabad (GCUF) has emerged as a leading center of learning and research in a short span of time. The University with its dynamic faculty and innovative syllabi has become a catalyst of intellectual, social and industrial change. It caters to the diverse needs of society by imparting education in almost all the major fields of learning. The GCUF has a long history of excellence and distinction as an institution. Renowned scholars and eminent personalities have served this institution in various capacities at various stages of its history. It has produced outstanding personnel who have earned great fame not only for themselves but also for the nation. The University has recently ranked in top five Universities of the country among large public sector universities.

The university is situated at the Jhang Road not far from the historical Clock Tower. The main campus is spread on 37 acres and the construction of new campus has been started on an area of 200 acres some 3-4 kilometers away from the main campus at Jhang Road. The University is a hub of educational, social and cultural activities with a close liaison with industry.

About Department of Bioinformatics & Biotechnology

Bioinformatics and Biotechnology have become frontline applied science disciplines of the

twenty-first century. Bioinformatics is an amalgamation of Life Sciences, Statistics, Mathematics and Computer Sciences to develop computer programs (databases and software) for their application in life sciences. Biotechnology is the application of scientific techniques and principles on biological systems (living organisms or derivatives thereof) to make or modify products or processes intended for



“Human Welfare”. Department of Bioinformatics and Biotechnology (BNB) provides interdisciplinary learning and training that bridges the Departments and seamlessly integrates computational methodologies in this modern area of biological sciences. The BNB has a mission to provide a collaborative learning environment with a life science focus, that prepares students for higher education (BS to PhD) to reach the forefront of leadership by developing the sophisticated computational methods to conduct groundbreaking research in key areas of Bioinformatics and Biotechnology. The Department has 30 PhD faculty members and state of the art labs are being established with a financial assistance of PKR 43.00 Millions.

About Office of Research, Innovation & Commercialization

With efforts from Director Research, Prof. Dr. Farhat Abbas, GC University Faisalabad was able to get its ORIC registered on October 10, 2012. Till then, ORIC has facilitated the faculty at GCUF to participate in several national and international trainings and sciences conferences. ORIC has successfully developed several national and international national research collaborations. Moreover, ORIC has assisted HEC to evaluate the GCUF for national ranking. Along with this, ORIC has conducted several national trainings and seminars at GCUF, has developed databases of research projects and publications produced by GCUF researcher.

Contacts

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