

SHORT TERM SKILL DEVELOPMENT COURSES IN LIFE SCIENCES

Genome Foundation, a leading non profit company established by a group of highly reputed Molecular Biologists led by late Dr Lalji Singh and well known Forensic Scientist Dr K P C Gandhi, is engaged in Research, Training, Skill development, Diagnostics and Genetic Counselling. As a part of its objectives, Genome Foundation is offering two short term Skill Development courses in Life Sciences aimed at enhancing the professional knowledge and applications in a) '**Molecular Genetics**' and b) '**Cytogenetics and Clinical Practice**'.

These two internship programs are aimed at providing professional knowledge and training on principles and applications of various molecular and cytogenetics techniques which are increasingly being used in research, diagnosis and pharmacogenomics. The courses are well suited for post graduates and doctorates (Ph.D) in life sciences, graduates and post graduates in Science, Engineering with Biotechnology specialisation, medical graduates with M.B.B.S degree and having a career planning in research and diagnostics, both in biotechnology industries and pharma hubs, fast coming up all over the country.

COURSE 1 :

Internship program in Molecular Genetics

Course Deliverables: At the end of the program, the participants will be familiar and conversant with:

- a) Comprehensive knowledge about molecular diagnostics for broad understanding of the concepts and various techniques and assays.
- b) An overview of nucleic acid chemistry: replication, transcription, and translation.
- c) Principles of nucleic acid isolation from blood and solid tissues.
- d) Extraction, purification and quantification of DNA and RNA for analysis.
- e) Primer designing for Polymerase Chain Reaction (PCR).
- f) Principles of PCR, reverse transcription amplification techniques and performs such assays.
- g) Principles of genotyping using PCR based techniques and with hands on practice on assays.

- h) Principles of Sanger Sequencing with hands on practice on sequencing and interpretation of output data as chromatographs.
- i) Familiarization with DNA chip technology and other advanced methods with interpretation of results in the context of other laboratory and clinical data. Broad exposure to various molecular diagnostic methods.
- j) Documentation and reporting of molecular diagnostic results in a professional manner.
- k) Exposure to the use of Good Laboratory Practices in Molecular Genetics.

Course Duration: 6 Weeks.

Batch Size: Six.

Eligibility: B.Sc, M.Sc or Ph.D (Life Sciences), B.Tech / M.Tech (Biotechnology), M.B.B.S.

Admission: Based on academic credentials, aptitude and professional interest.

How to Apply: Application can be downloaded from the Genome Foundation web site www.genomefoundation.in

Fee: Rs 30,000/- Payable by online transfer through NEFT.

- Concessional fee of Rs 25,000/- is applicable to Students of the Osmania University.

Last Date of Application: 10th September, 2018.

Course Co-ordinator:

Mr Gaurav Gupta
Project Coordinator, Genome Foundation

COURSE 2 :

CYTOGENETICS AND CLINICAL PRACTICE

Course Deliverables: At the end of the program, the participants will be familiar and conversant with:

- a) An overview of Cytogenetics and its applications in Clinical practice.
- b) Classification of Human chromosome.
- c) Principles of Karyotyping and its applications.
- d) Hands on practice on various sterile culture techniques.
- e) Leukocyte cultures and preparation of metaphase chromosomes
- f) G banding experiment and analysis of banding karyotype and principles of other banding techniques.
- g) Introduction to Molecular Cytogenetics
- h) FISH assay
- i) Interpretation of results of Analysis and report preparation.
- j) Genetic Counselling based on cytogenetics.

Course Duration: 3 Weeks.

Batch Size: Five.

Eligibility: B.Sc, M.Sc / Ph.D (Life Sciences), B.Tech/M.Tech (Biotechnology), M.B.B.S.

Admission: Based on academic credentials, aptitude and professional interest.

How to Apply: Application can be downloaded from the Genome Foundation web site www.genomefoundation.in

Fee: Rs 15,000/- Payable by online transfer through NEFT.

Concessional fee of Rs 10,000/- is applicable to Students of the Osmania University.

Last Date of Application: 15th October, 2018.

Course Coordinator

Ms Vidhyadhari
Scientist, Genome Foundation

Other Details:

Boarding/ Lodging: Candidates should make their own arrangements for boarding and lodging. Genome Foundation is situated in Osmania University Campus in the vicinity of the reputed National Laboratories like NIN, CCMB, CDFD, IICT, etc., and the surrounding areas are very conducive for the stay of students with safe and affordable accommodation with food, transport etc.,.

Academic Rules/Regulations: Students should attend 90% of classes which is mandatory for course completion. Those who discontinue the program before completion for whatever reasons are not entitled for refund of fees. Managing Director, Genome Foundation reserves the right to terminate the training of any candidate on the grounds of indiscipline, misconduct or unacceptable behaviour during the course period.

Duly filled in applications may be sent online to email:

genomefoundationacademics@gmail.com

Or

By post to the following address;
General Manager,
Genome Foundation, 1st Floor
Centre for Plant Molecular Biology (CPMB),
Osmania University, Hyderabad-500007

Dr K P C Gandhi
(Managing Director)