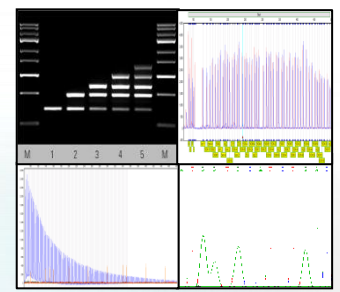


# Centre for DNA Fingerprinting and Diagnostics, Hyderabad

## Hands on workshop announcement Molecular testing for genetic disorders

11<sup>th</sup> - 15<sup>th</sup> November, 2019



Molecular genetic testing is part of modern medical practice today. Accurate diagnosis of diseases is essential for appropriate genetic counselling and prenatal diagnosis based prevention strategies. The aim of this workshop is to provide an introduction to molecular methods and hands-on experience for the diagnosis of Single gene disorders

**Lectures:** Introduction to DNA isolation, Principle of PCR and its application in diagnosis of Single gene disorders, Primer designing using tools like Primer 3 and BLAST, Sequencing technique, Triple primed PCR (TP-PCR), Multiplex Ligation Probe amplification (MLPA) technique and Genotyping

### Laboratory hands on experience in:

1. DNA isolation from blood and Chorionic villus sample/Amniotic fluid
2. Quality and quantity check of DNA using gel electrophoresis and spectrophotometer
3. Primer designing using Primer3 and BLAST
4. Standardization of PCR followed by agarose gel electrophoresis
5. Sequencing technique for Mutation analysis
6. Triplet Primed-PCR for Triplet repeat disorders
7. Multiplex Ligation Probe Amplification (MLPA) technique for DMD, SMA etc
8. Genotyping for analysis of TP PCR and MLPA

**Participants:** Minimum qualification is MSc/ MBBS. Young Scientists, medical professionals, students may apply with CV and one-page letter stating your interest by e-mail.

**Selection process:** 25 participants would be selected based on screening of applications by a committee

**Last date for application: 15<sup>th</sup> September, 2019**

### Registration details:

Delegate participation fees : Rs 8000/-

Student participation fees : Rs 7000/-

(Participation fees are excluding accomodation)

\*students to enclose the letter of student status.

**Amount to be paid as Cheque/DD in name of Director, CDFD**

Registration includes the breakfast, lunch and dinner for 5 days (11.11.2019 to 15.11.2019), workshop manuals and workshop materials.

**Accommodation can be provided on request in the guest house / hostel upon payment of requisite fees.**

### Contact Information:

Dr Ashwin Dalal/ Ms Angalena R

Diagnostics Division,

Centre for DNA Fingerprinting and

Diagnostics Hyderabad

E-mail:

[molcytows@cdfd.org.in](mailto:molcytows@cdfd.org.in), [adalal@cdfd.org.in](mailto:adalal@cdfd.org.in)

Ph. 040-27216148



**Centre for DNA Fingerprinting and Diagnostics (CDFD)**

**Hands on workshop in**

**Molecular testing for Genetic disorders**

**11<sup>th</sup> to 15<sup>th</sup> November,2019**

**Name:** \_\_\_\_\_

**Designation:** \_\_\_\_\_

**Affiliation:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**Age:** \_\_\_\_\_ **Sex:** \_\_\_\_\_

**E-mail:** \_\_\_\_\_

**Delegate:** \_\_\_\_\_ **Student:** \_\_\_\_\_

**Accommodation required:** \_\_\_\_\_

**\*students to enclose the letter of student status.**

**# Apply with your CV and one-page letter stating your interest in the workshop by e-mail.**

**Payment options:**

**Demand Draft/Cheque should be drawn in favor of “Director, CDFD”**

**Registration form and fee to be sent to:**

Dr Ashwin Dalal

Diagnostics Division, Centre for DNA Fingerprinting and Diagnostics (CDFD)

Inner Ring Road, Uppal, Hyderabad-500 039

E-mail: [molcytows@cdfd.org.in](mailto:molcytows@cdfd.org.in); [adalal@cdfd.org.in](mailto:adalal@cdfd.org.in)

Ph: 040-27216148

Sign:

Date: