

International Conference on

# MOLECULAR BIOLOGY AND MEDICINE

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### Genetic counselling for mendelian and non mendelian disorders: Be familiar with metabolic, neuromuscular and immunodeficiency disorders

A genetic consultation is a health service that provides information and support to people who have or may be at risk for genetic disorders. In genetic counseling, the professional's help people learn about genetic conditions, find out their chances of being affected by having a child or another genetic conditioner and make informed decisions about testing and treatment. In other words, the professional investigates the problem present in the family, interprets information about the disorder, analyzes the inheritance patterns and recurrence risk, and reviews available options with the family. This workshop will discuss a variety of topics such as:

#### Draw pedigree for Mendelian and non Mendelian disorders with Example for better understanding of:

- 1) Metabolic disorders
  - a. Micromolecular Disorders (PKU)
  - b. Macromolecular Disorders (MPS)
- 2) Neuromuscular disorders
  - a. Autosomal Dominant (CMT)
  - b. Autosomal Receive (SMA)
  - c. X-linked (DMD)
  - d. 3 nucleotide Repeats (HD)
  - e. Mitochondrial Disorders (LHON)
- 3) Immunodeficiency disease.
  - a. Autosomal Dominant (CGD)
  - b. Autosomal Receive (SCID)
  - c. X-linked (Wiscot-Aldrich)

#### Biography

Seyed Massoud Houshmand has completed his PhD in Medical Molecular Genetic from Gothenburg University, Gothenburg, Sweden. He is the Head of the Genetic Diagnostic Laboratory, Faculty Member of National Institute for Genetic Engineering and Biotechnology and Responsible Director of *Personalized Medicine* journal. He has organized about 22 workshops and seminars and has published more than 220 papers and 17 books. He is the Winner of Best Iranian Researcher in Medical Genetic 2010, Winner of ISESCO prizes in Science & Technology 2014 and winner of Best Iranian Researcher 2015.

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