

Biochemistry Department

1- Extraction Methods for Nucleic Acids (DNA and RNA) from Biological Samples. Hands On

The course includes principles, materials and reagents as well as demonstration and practical application of the methods

Duration: 5 days

Fees: 750 EGP for Egyptians/ 400 US\$ for non Egyptians

2- DNA, RNA and protein electrophoresis. Hands On

Duration: 2 days

Fees: 300 EGP for Egyptians/ 300 US\$ for non Egyptians

3- Applications of PCR and Quantitative RT-PCR for Diagnosis of Pathogens. Hands On

The course includes definition and principle of PCR and different applications of PCR in diagnosis of infectious diseases, cancer and genetic abnormalities.

Duration: 10 days

Fees: 1000 EGP for Egyptians/ 1000 US\$ for non Egyptian candidates

4- Cloning and Expression of Recombinant Proteins. Hands On Candidates will learn the method of isolation of the target regions in the RNA/DNA genome by specific primers, cloning of PCR product into an expression vector, transformation of the clone into an appropriate bacterial host cell, induction and expression of the proteins of the cloned genes and purification of the expressed proteins by affinity chromatography

Duration: 5 days

Fees: 1250 EGP for Egyptians/ 750 US\$ for non-Egyptians

5- Determination of SNPs Associated with Different Genetic Diseases (il 28, il 4). Hands On

Candidates will learn the meaning and significance of single nucleotide polymorphism (SNP, pronounced snip, plural snips) and the analytical methods used to discover known snips and how to discover novel SNPs including the use of real time PCR

Duration: 3 days

Fees: 750 EGP for Egyptians/ 400 US\$ for non-Egyptians

6- Principles of tissue culture. Hands On Duration: 10

days

Fees: 1000 EGP for Egyptians/ 500 US\$ for non-Egyptians

7- Gene Expression. Hands On

Duration:5 days

Fees: 750 EGP for Egyptians/ 600 US\$ for non-Egyptians

8- Nanomaterials for drug delivery.Hands On

Duration:5 days

Fees: 750 EGP for Egyptians/ 450 US\$ for non-Egyptians

9- Bioinformatics.Hands On Duration:5 days

Fees: 750 EGP for Egyptians/ 450 US\$ for non-Egyptians

10- Protein purification.Hands On Duration:5days

Fees: 1000 EGP for Egyptians/ 750 US\$ for non-Egyptians

