ESSENCIAL MOLECULAR BIOLOGY – A HANDS-ON LABORATORY COURSE 23rd EDITION

Laboratory of Support to Research in Molecular Medicine 26 Jun – 14 Jul 2023

OPTIONS OF EXPERIMENTAL FOCUS

11: Western blotting;

12: Protein co-immunoprecipitation.

Name:
Please choose up to two of the five options below. Options can be chosen within the same category. The total number of days is limited to 10.
Genomics:
 G1. Gene expression studies (1+2+3+6). Duration: 5 days G2. DNA cloning in E.Coli (1+2+4+5). Duration: 5 days G3. DNA-protein interaction studies (8+9+7+10+11). Duration: 5 days
Proteomics:
 □ P2. Protein expression studies (8+9+10+11). Duration: 5 days □ P3. Protein-protein interaction studies (12+10+11+8+9). Duration: 5 days
Genomics: 1: Nucleic acids extraction (DNA or RNA) from cells, tissues or fluids; 2: Quantification techniques and quality control; 3: cDNA synthesis by reverse transcription (RT); 4: DNA amplification by conventional PCR 5: Recombinant DNA techniques (enzymatic restriction, transformation, molecular cloning); 6: Gene expression studies (cDNA amplification by real time PCR) 7: DNA-protein interaction studies (Electrophoretic Mobility Shift Assay, DNA pull-down essays)
Proteomics: 8: Protein extraction from cells or tissues; 9: Quantification techniques; 10: Electrophoresis (SDS-PAGE);