ESSENCIAL MOLECULAR BIOLOGY – A HANDS-ON LABORATORY COURSE 21th EDITION

Laboratory of Support to Research in Molecular Medicine 27 Jun - 15 Jul 2022

OPTIONS OF EXPERIMENTAL FOCUS

13: Protein co-immunoprecipitation.

Name:
Please choose up to two of the six 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:
 P1. Tagged protein purification (8+9+12). Duration: 5 days P2. Protein expression studies (8+9+10+11). Duration: 5 days P3. Protein-protein interaction studies (13+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);
11: Western blotting;
12: Purification by liquid chromatography;