ESSENCIAL MOLECULAR BIOLOGY - A HANDS-ON LABORATORY COURSE 15th EDITION

Laboratory of Support to Research in Molecular Medicine 1 - 19 Jul 2019

OPTIONS OF EXPERIMENTAL FOCUS

12: Isoelectric focusing;

13: Purification by liquid chromatography;14: Protein co-immunoprecipitation.

Name:
Please choose up to two of the seven 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+13). Duration: 5 days P2. Protein expression studies (8+9+10+11). Duration: 5 days P3. Protein-protein interaction studies (14+10+11+8+9). Duration: 5 days P4. Protein separation by two-dimensional electrophoresis (8+9+12+10+11). Duration: 10 days. (Please note: this option cannot be combined with any other as it takes up the whole 10 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;