

Annex I

2021 BioSys2 Projets

(Click on the projects for more details)

1 – ASYMMETRIC* - Title: Asymmetric post-translational modifications (PTMs) as a new regulatory mechanism in self-associating signaling proteins, Supervisor: Federico Herrera (BioISI) | Co-supervisor: Veit Schwämmle (University of Southern Denmark)

2 – IMPACT* - Title- The impact of energy metabolism of Staphylococcus aureus on bacterial and host cellular processes, Supervisor: Manuela M. Pereira (BioISI) | Co-supervisor: Margarida D. Amaral (BioISI, FCUL)*

3 – CFTR-DIFF-EMT - Title: Role of CFTR in Epithelial Differentiation and EMT by functional genomics, Supervisor: Margarida Amaral (BioISI, FCUL) | Co-supervisor: Ines Pankonien (BioISI, FCUL) & Emanuel Gonçalves (Ophiomics)

4 – Link cAMP4CFTR* - Title: Linking cyclic AMP to the cytoskeleton to regulate CFTR trafficking, Supervisor: Carlos M Farinha (BioISI, FCUL) | Co-supervisor: Manuela Zacco (University of Oxford, UK)

5 – Grape Trunk - Title: Molecular and metabolic markers of Grapevine Trunk diseases, Supervisor: Ana Margarida Fortes (BioISI, FCUL) | Co-supervisor: Paula Lopes (BioISI, UTAD) & Rita Pacheco (BioISI, FCUL)

6 – DNA MPB* - Title: DNA methylation role in the periderm barrier formation, Supervisor: Célia Miguel (BioISI, FCUL) | Co-supervisor: Stéphane Maury (Université d'Orléans) & Vera Inácio (BioISI, FCUL)

7 – InSilico 4 Protein Knots* - Title: In silico insights on the role of protein knots in mechanical stability and self-association, Supervisor: Miguel Machuqueiro (BioISI, FCUL) | Co-supervisor: Patrícia Faísca (BioISI, FCUL)

8 – GvagainstDM* - Title: The effects of different regenerative agriculture practices on soil and plant microbiome: a study of its effects on grapevine defense system against downy mildew, Supervisor: Andreia Figueiredo (BioISI, FCUL) | Co-supervisor: Fiammetta Alagna (ENEA, Italy) & Bernardo Duarte (MARE, FCUL)

* Mixed Fellowship (sponsors max 2yrs at an international institution through salary increase)