CNC Advanced Courses 2021

Doctoral Program in Experimental Biology and Biomedicine (PDBEB)

February 22 – 26, 2021

Coordinators:
Irina S. Moreira - irina.moreira@cnc.uc.pt; CNC/UC-Biotech UC
Alexandra T. P. - Carvalho atpcarvalho@uc.pt; CNC/UC-Biotech, UC
Armindo Salvador - salvador@cnc.uc.pt; CNC/UC-Biotech, UC

Location: Depending on pandemic situation it will be at CNC-UC BIOTECH or via Zoom.

Lecturers:
Irina S. Moreira, CNC/UC-Biotech, UC
Nícia Ferreira, CQC & CNC/UC-Biotech, UC
António Preto, CNC/UC-Biotech, UC
Armindo Salvador, CNC/UC-Biotech, UC
Alexandra T. P. Carvalho, CNC/UC-Biotech, UC
Pedro R. Figueiredo, CNC/UC-Biotech, UC
Beatriz C. Almeida, CNC/UC-Biotech, UC
Ricardo Gonzalez, CNC/UC-Biotech, UC

Program

Monday, February 22nd, 2021
10:00-10:15: Course presentation
10:15-11:30: Irina Moreira, “The Importance of Artificial Intelligence in Drug Discovery”
11:30-12:30: Nícia Ferreira, “Using text-mining to never read scientific papers again”
14:00-16:30: Irina Moreira & Nícia Ferreira, “Hands-on session: Literature reading 2.0 (no reading, just text-mining)”

Tuesday, February 23rd, 2021
10:00-12:30: Irina Moreira António Preto, “Hands-on session: Machine Learning in genomics and proteomics”
14:00-16:30: Armindo Salvador, “Key concepts in Molecular Systems Biology: connecting design to function in biochemical networks”

Wednesday, February 24th, 2021
10:00-12:30: Armindo Salvador, “Hands-on session: do your own models and explore the behaviour of regulatory motifs in biochemical networks”
14:00-16:30: Armindo Salvador, “Hands-on session: do your own models and explore the behaviour of regulatory motifs in biochemical networks”

Thursday, February 25th, 2021
10:00-11:30: Alexandra T. P. Carvalho, “Rational enzyme design”
11:30-12:30: Pedro R. Figueiredo & Beatriz C. Almeida, “Computational studies on enzymatic polymerizations”
14:00-16:30: Pedro R. Figueiredo, Beatriz C. Almeida and Ricardo Gonzalez, “Hands-on session: Molecular Dynamics”

Friday, February 26th, 2021
10:00-12:30: Pedro R. Figueiredo, Beatriz C. Almeida and Ricardo Gonzalez “Hands-on session: Molecular Dynamics”
14:00-15:00: CNC Seminar
15:00-17:00: Students Evaluation