

Marine Natural Products: Discovery and Structure Elucidation

Jun 25

Location:
CIIMAR

Terminal Cruzeiros Porto Leixões
Av. General Norton de Matos s/n
4450-208 Matosinhos

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Jun 26

09:00 General topics of HPLC and mass spectrometry (Caroline Rouger - GEOMAR)

10:00 Chiral chromatography (Carla Fernandes - U. Porto)

11:00 Coffee-Break 

11:30 Dereplication for natural product discovery (Fernando Reyes - F. Medina)

12:30 Lunch 

14:00 Conformational analysis and ECD calculations (José A. C. Pereira - U. Porto)

15:00 Computational prediction of NMR & MS spectra (ACD Labs)

16:00 X-ray crystallography (Luís Gales - U. Porto)

17:00 Coffee-Break 

17:30 Peptide synthesis and mimetics (Bengt E. Haug - U. Bergen)

Jun 27

09:00 Structural elucidation of natural products (Mariana Reis - CIIMAR)

10:30 Coffee-Break 

11:00 Hands-on LC-MS (Pedro Leão and Joana Azevedo - CIIMAR)

12:30 Lunch 

14:00 MS-based structure elucidation of cyanobacterial peptides (Jouni Jokela - U. Helsinki)

15:00 Hands-on molecular networking and dereplication (GNPS) (Delphine Parrot and Caroline Rouger - GEOMAR)
*students need to bring their own laptop

16:30 Coffee-Break 

17:00 Medicinal chemistry (Madalena Pinto and Andreia Palmeira - U. Porto)

Jun 28

09:00 Metabolomics and chemical imaging (Delphine Parrot - GEOMAR)

09:45 Computational simulation of optical rotation & CD spectra (Marco Preto - CIIMAR)

10:30 Coffee-Break 

11:00 Biosynthesis-assisted structure elucidation (Pedro Leão - CIIMAR)

11:45 Brainstorm discussion & closing remarks

13:00 Lunch 

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BLUE and GREEN