7th CERMAX practical course on basic NMR Oeiras, 24th – 27th June, 2014

Program

24 th of June		
9.30 – Introduction to NMR spectroscopy.		PL (Room 3.20)
10.30 – Instrumental aspects of the spectrometer /Rules for spectrometer use.		HM (Room 3.20)
11.00 – Break	·	
11.30 – Introduction to TopSpin software.		HM (Room 3.20)
12.15 – 1D Acquisition and processing		PL (Room 3.20)
13.00 – Lunch break		
14.00 – NMR and Metabolomics/ Quantitative NMR		GG (Room 3.20)
15.30 – <i>Break</i>		
15.50 – Spectrometer Guided tour and sample preparation		HM (NMR Lab)
25 th of June		
9.30 – Introduction to 2D NMR spectroscopy (Homonuclear correlation)		PL (Room 3.20)
10.15 – Heteronuclear correlation for small molecule and protein assignment		MM (Room 3.20)
11.00 – Break		
11.15 – Practical session I		PL, HM, MM, IS
Acquisition (1D, presat, p90, APT)	Processing and analyzing 1D (NMR Spect and WS)
13.30 – Lunch break		
14.30 – Practical sessions I (cont)		PL, HM, MM, IS
26 th of June		
9.30 – The Nuclear Overhauser Effect		ROL (Room 3.20)
10.15 – The paramagnetic effect and metalloproteins	i	ROL (Room 3.20)
10.45 – Break		
11.15 – Practical session II		PL, HM, MM, IS
Acquisition (COSY, HSQC)	Processing and analyzing 2D (NMR Spect and WS)
13.30 – Lunch break		
14.30 – Practical sessions II (cont)		PL, HM, MM, IS
27 th of June		
9.30 – Assignment strategies in small molecules (tut	orial and exercises)	PL (Room 3.20)
10.45 – Break		•
11.15 – Assignment strategies (cont)		PL (Room 3.20)
13.00 – Lunch break		
14.00 – Practical session III		PL, HM
Acquisition exercises (NMR Spect and WS)		

Faculty:

Gonçalo Graça Helena Matias

Ivo Saraiva

Manolis Matzapetakis

Pedro Lamosa

Ricardo Louro