

8th CERMAX practical course on basic NMR

Oeiras, 29th September – 2nd October, 2015

Program

29th of September

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 – <i>Break</i>	
11.30 – Introduction to TopSpin software.	HM (Room 3.20)
12.15 – 1D Acquisition and processing	PL (Room 3.20)
13.00 – <i>Lunch break</i>	
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)

30th of September

9.30 – Introduction to 2D NMR spectroscopy (Homonuclear correlation)	PL (Room 3.20)
10.15 – The Nuclear Overhauser Effect	ROL (Room 3.20)
11.00 – <i>Break</i>	
11.15 – Practical session I	PL, HM, MM, IS
Acquisition (1D, presat, p90, APT)	Processing and analyzing 1D (NMR Spect and WS)
13.30 – <i>Lunch break</i>	
14.30 – Practical sessions I (cont)	PL, HM, MM, IS

1st of October

9.30 – Heteronuclear correlation for small molecule and protein assignment	MM (Room 3.20)
10.15 – The paramagnetic effect and metalloproteins	ROL (Room 3.20)
10.45 – <i>Break</i>	
11.15 – Practical session II	PL, HM, MM, IS
Acquisition (COSY, HSQC)	Processing and analyzing 2D (NMR Spect and WS)
13.30 – <i>Lunch break</i>	
14.30 – Practical sessions II (cont)	PL, HM, MM, IS

2nd of October

9.30 – Assignment strategies in small molecules (tutorial and exercises)	PL (Room 3.20)
10.45 – <i>Break</i>	
11.15 – Assignment strategies (cont)	PL (Room 3.20)
13.00 – <i>Lunch break</i>	
14.00 – Practical session III	PL, HM
	Acquisition exercises (NMR Spect and WS)

Faculty:

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Helena Matias
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