

9th CERMAX practical course on basic NMR

Oeiras, 21st – 24th October, 2016

Program

21st of June

- 9.30 – Introduction to NMR spectroscopy. **PL (Room 3.20)**
11.00 – *Break*
11.30 – Instrumental aspects of the spectrometer /Rules for spectrometer use. **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 – *Break*
15.50 – Spectrometer Guided tour and sample preparation **HM (NMR Lab)**

22nd of June

- 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 – *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**

23rd of June

- 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 – *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**

24th of June

- 9.30 – Assignment strategies in small molecules (tutorial 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:

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