

2019 NMR Users Workshop (II)

Tips for Small Molecule NMR

High-Field NMR Center & GRC NMR LAB Academia Sinica

Date: Nov. 21-22, 2019

Places: B1B Lecture Room & B1A Meeting Room, IBMS, Academia Sinica

Instructors (in alphabetical order):

Dr. Chi-Fon Chang (GRC, Academia Sinica) 張七鳳 博士

Dr. Yuan-Chao Lou (NBRP, Academia Sinica) 羅元超 博士

Dr. Ying-Yann Wu (Chemistry, Academia Sinica) 吳英彥 博士

Topics: Useful Experiments for Small Molecule

Data Processing using Topspin

Advance Analysis using Topspin

-Quantitative NMR

-Multiplet Analysis

-1D Spectrum Simulation

Language: Chinese (Handout with English) 以中文主講

Hands-On: NMR Data Collection (in groups, 分組進行)

Data Processing & Data Analysis(Quantitative, Multiplet, Simulation)

(Laptop with Topspin, 需自備電腦並預先安裝軟體)

TAs (in alphabetical order):

Ms. Pei-Ju Fang (HFNMRC, Academia Sinica) 方珮如

Ms. Yi-Ping Huang (GRC, Academia Sinica) 黃意評

Ms. Ellen Yu (HFNMRC, Academia Sinica) 游春愛

Software Installation TA

Mr. Roland Lee (HFNMRC, Academia Sinica) 李玉順

Registration Deadline: Nov. 15, 2019

Registration Webpage: <https://www.nmr.sinica.edu.tw/Workshop/Workshop2019s/>

(Tentative Program)

Day 1 : Nov. 21 (Thursday) Morning

Useful Experiments for Small Molecule by Dr. Chi-Fon Chang

Place: B1B Lecture Room, IBMS

- 10:30-10:40** **Opening & Introductory Overview**
- 10:40-11:20** **Useful Experiments for Small Molecules (I)**
- 11:20-11:30** **Short Break**
- 11:30-12:10** **Useful Experiments for Small Molecules (II)**
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- 12:10-13:30** **Lunch Break (Rm 244, IBMS)**

Day 1 : Nov. 21 (Thursday) Afternoon

- 13:30-14:00** **NMR Data Collection Overview**
- 14:00-17:00** **Hands On- Data Collection in Groups**
(1D 1H; 1D Selected-TOCSY; 2D COSY, NOESY/ROESY; 2D 1H-13C HSQC)

Day 2 : Nov. 22 (Friday) Morning

Practical Data Processing using Topspin by Dr. Yuan-Chao Lou

Place: B1A Meeting Room & B1B Lecture Room, IBMS

- 10:00-10:50** **Data Processing using Topspin (I)**
- 10:50-11:10** **Coffee Break**
- 11:10-12:00** **Data Processing using Topspin (II)**
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- 12:00-13:30** **Lunch Break (B1A Meeting Room)**

Day 2 : Nov. 22 (Friday) Afternoon

Practical Data Analysis using Topspin by Dr. Ying-Yann Wu

Place: B1A Meeting Room & B1B Lecture Room, IBMS

- 13:30-15:00** **Data Analysis using Topspin (I)**
- 15:00-15:20** **Coffee Break**
- 15:20-17:00** **Data Analysis using Topspin (II)**