NMR Operator Training II.

Schedule:

- **Week 1:** General introduction to the NMR laboratory and instrument. Overview of safety rules.
- Week 2: Introduction to the basic functions of the NMR software; basic setup of the NMR instrument (locking, tuning, shimming).
- Week 3: 1H pulse calibration, 1D 1H NMR measurement.
- Week 4: Experimental parameters of 2D 1H–1H correlation spectroscopy (COSY).
- **Week 5:** Measurement parameters of 2D 1H–1H total correlation spectroscopy (TOCSY).
- **Week 6:** Experimental parameters of 2D 1H–1H nuclear Overhauser effect spectroscopy (NOESY, ROESY).
- Week 7: Practicing the independent setup of homonuclear 2D NMR experiments.
- Week 8: Experimental parameters of heteronuclear single-bond 2D NMR (HSQC).
- Week 9: Experimental parameters of heteronuclear multiple-bond 2D NMR (HMBC).
- **Week 10:** Basics and measurement of water suppression 1H NMR (WATERGATE sequence).
- Week 11: Practicing the correct setup and measurement of the studied 2D NMR experiments.
- Week 12: Practicing the correct setup and measurement of the studied 2D NMR experiments.