

# Biomolecular NMR\*

A hands-on PhD course (2 ECTS)

- Venue:** Swedish NMR Centre, University of Gothenburg
- Dates:** 13-17 Oct 2014
- Target group:** PhD students and researchers with projects involving protein characterization by NMR
- Organizers:** Vladislav Orekhov, Swedish NMR Centre, Univ. of Gothenburg  
Martin Billeter, Chem. and Mol. Biology, Univ. of Gothenburg
- Information:** will be posted at <http://www.nmr.gu.se/english/courses/>
- Registration:** by e-mail to orov 'at' nmr.gu.se; deadline - 15 Sep 2014; registration fee - none; number of participants is limited

## Teachers:

- Billeter, Martin, University of Gothenburg, Sweden
- Gutmanas, Aleksandras, Eur. Bioinformatics Institute, UK
- Güntert, Peter, J.W. Goethe-University, Germany
- Karlsson, Göran, University of Gothenburg, Sweden
- Mayzel, Maxim, University of Gothenburg, Sweden
- Orekhov, Vladislav, University of Gothenburg, Sweden
- Pierattelli, Roberta, University of Florence, Italy
- Piai, Alessandro, University of Florence, Italy

## Topics:

- Concepts of NMR spectroscopy
- NMR signal processing: traditional & novel methods
- Resonance assignment
- NMR Structure calculations
- Structure validation tools
- Data deposition to PDB and BMRB
- Direct <sup>13</sup>C detection NMR experiments

\*Note satellite workshop 11-12 Oct: Automating NMR workflows:  
Introduction to python programming

