

The University of Vienna seeks to fill the position as soon as possible of a

PhD candidate (m/f)

The research group of Dr Roman Lichtenecker is investigating ways to selectively introduce stable isotopes into protein samples. Together with our industry partner Boehringer-Ingelheim, we want to further extend our methods and apply them to analyse pharmacologically important target proteins using biomolecular NMR spectroscopy. The data obtained will initiate and guide drug development processes. The project is conducted within the scope of a Christian Doppler Laboratory, led by Prof. Robert Konrat from the Dept. of Structural Biology at the University of Vienna. We are recruiting a PhD candidate with a strong background in Organic Synthetic Chemistry, who is willing to start a demanding PhD-project within a highly interdisciplinary environment.

Duration of the employment: 3 years

Extent of employment: 30 hours/week

Main workplace: Institute of Organic Chemistry, Univ. of Vienna, Währingerstr. 38, 1090 Vienna

Job description:

The PhD candidate will work on the synthesis of small $^{15}\text{N}/^{13}\text{C}/^2\text{H}$ – containing amino acids or metabolic precursors thereof. These target compounds will directly be applied to generate selectively labelled biomolecules. The resulting isotope distribution in these protein samples will lead to new methods to address challenging problems from structural biology. The position is mainly laboratory based but includes project design, dissemination of results and scientific communication with our highly interdisciplinary team of experts. The successful candidate will collaborate with microbiologists, spectroscopists and researchers of theoretical chemistry, both from academia and our industry partner.

Profile:

- Strong background in Organic Synthesis (excellent knowledge of theory and practical workflow).
- Knowledge of compound analysis and characterization.
- Skills in data analysis and reporting.
- Fluent in English.
- Excellent teamwork and communication skills, independent, critical thinking and initiative.

Please submit a letter of motivation and your scientific CV until 27.8.2021 to roman.lichtenecker@univie.ac.at.