# Postdoctoral Research Associate Metabolomics/Exposomics

**University Assistant postdoctoral**

Job vacancy starting: 09/01/2025 (MM-DD-YYYY) | Working hours:  40.00  | Classification CBA: §48 VwGr. B1 lit. b (postdoc); Job ID:

Explore and teach at the University of Vienna, where over 7,500 brilliant minds have found a unique balance of freedom and support. Join us if you're passionate about groundbreaking international research and academic excellence. Ready to be part of our team? Let's shape the future together!

**Your personal sphere of play:**

A university assistant (postdoc) position is available at the Department of Food Chemistry and Toxicology at the Faculty of Chemistry. The 'Global Exposomics and Biomonitoring Laboratory' led by Professor Benedikt Warth aims at a better understanding of the impact of food- and environment-related toxicants on human health. Innovative mass spectrometric methods are developed and applied to investigate exposure, metabolism, and toxicity. The lab consists of a motivated and interdisciplinary team acting in a strong national and international network.

This position in the field of bioanalytical chemistry is dedicated to the development and application of innovative mass spectrometry-based workflows and data evaluation tools. The developed metabolomic and exposomic tools will be applied to address pressing research questions at the edge of environmental/food contaminants and human health.

**Your future tasks**

- Active participation in research, teaching & administration
- Working in the framework of large-scale EU projects (ERC, ESFRI) and collaborating with national and international partners
- Maintain, calibrate and troubleshoot high-end mass spectrometers with a focus on GC-HRMS and Orbitrap analysers
- Develop, optimize, and validate analytical GC-MS and LC-MS methods for various applications
- Provide training, consultation and technical support to fellow researchers and students
- Stay updated on the latest mass spectrometry advancements and implement best practices

**This is part of your personality:**

- PhD degree in analytical, biological, food, or computational chemistry, biotechnology or related field
- Experience in mass spectrometry (especially GC-MS) and programming (e.g. R), statistical knowledge for omic-scale research questions
- Scientific publishing experience in renowned, subject-relevant peer-reviewed journals
- Strong problem-solving skills and ability to troubleshoot instrumentation
- Experience in clinical metabolomics or breast cancer research is an asset
- High level of self-motivation, commitment, and work ethics; willingness to travel and manage cooperative projects
- Excellent knowledge of English (C1) is required and good command of German (B2) an advantage

**What we offer**

- ✓ Work-life balance: Our employees enjoy flexible working hours, remote/hybrid work (upon agreement)
- ✓ Inspiring working atmosphere: You are a part of an international academic team in a healthy and fair working environment
- ✓ Good public transport connections: Your workplace in the center of beautiful Vienna is easily accessible by public transport
- ✓ Internal further training & Coaching: Opportunity to deepen your skills on an ongoing basis. There are over 600 courses to choose from – free of charge
- ✓ Fixed-term contract and fair salary: The basic salary of EUR 4,932 (14 times per year before tax) increases, if we can credit professional experience
- ✓ Equal opportunities for all: We welcome every additional/new personality to the team!
- ✓ The contract is initially limited to 3 years and can be extended to 6 years by mutual agreement thereafter

**It is that easy to apply**

- Letter of motivation, academic CV and publication record
- Three references, degree certificates and transcripts
- Only complete applications will be considered
- Via our job portal/ Apply now - button

**If you have any content questions, please contact:**

Prof. Benedikt Warth, benedikt.warth@univie.ac.at
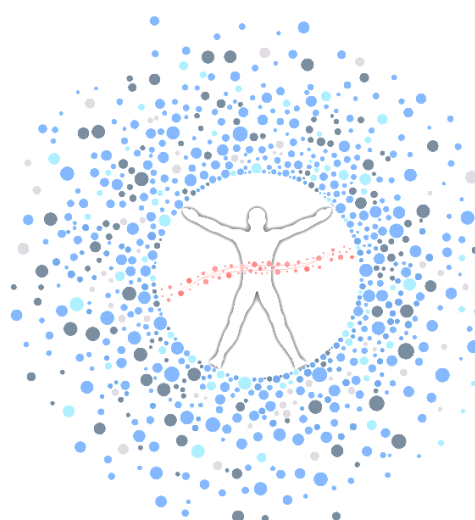
**Examples of our work:**

Fuereder et al. (2025) Metabolomics-enabled biomarker discovery in breast cancer research. *Trends Endocrinology & Metabolism*

Gu et al. (2025) High-Throughput Solid Phase Extraction for Targeted and Nontargeted Exposomics. *Analytical Chemistry*

Krausova et al. (2024) Longitudinal biomonitoring during pregnancy in the Yale Pregnancy Study. *Environment International*

Verri et al. (2024) Bridging targeted and untargeted LC–HRMS in a Single Run for Sensitive Exposomics. *Analytical Chemistry*

Pristner et al. (2024) Neuroactive metabolites are altered in extremely premature infants with brain injury. *Cell Reports Medicine*

Jamnik et al. (2022) Next-generation biomonitoring of the chemical exposome in infant development. *Nature Communications*

Flasch et al. (2022) Elucidation of xenoestrogen metabolism by non-targeted mass spectrometry in cancer cells. *Environ. Intern.*

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