

Curriculum vitae

Univ. Prof. Dr. Gunda KOELLENSPERGER



Personal information

Date of birth: March 28, 1970
Nationality: Italian
Current position: Full Professor of Analytical and Environmental Chemistry
University of Vienna
Department of Analytical Chemistry
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Career

2020 – Vice Dean of the Faculty of Chemistry, University of Vienna
2020 – 22 Head of the Institute of Analytical Chemistry, Faculty of Chemistry, University of Vienna
2019 Head of 2019 Department 1, Analytical Sciences-Reference Materials, BAM, Berlin, declined
2015 – Deputy head, Mass Spectrometry Center, Faculty of Chemistry, University of Vienna
2015 – Vice Chair, Vienna Metabolomics Center (ViMe), University of Vienna
2014 – Full Professor, Department of Analytical Chemistry, University of Vienna
2011 Guest Professor, Analytical Chemistry, Humboldt Universität zu Berlin, Germany
2011 – 2014 Key researcher, Austrian Centre for Industrial Biotechnology, acib
2003 – 2014 Associate Professor, Analytical Chemistry, BOKU
1998 – 2003 Assistant Professor at Division of Analytical Chemistry, Department of Chemistry, BOKU

Education

2003 Habilitation (*venia docendi*) in Analytical Chemistry, University of Natural Resources and Life Sciences, Vienna (BOKU), Austria
1998 Dr. techn, Vienna University of Technology, Austria
1995 Diploma studies, Vienna University of Technology, Austria
1994 Erasmus Fellow, Master thesis, University of Antwerp, Belgium

Research

Mass spectrometry, separation science in the fields of analytical metabolomics (including lipids), analytical metallomics and single cell analysis.

Achievements

Awards (2022 Hanns Malissa Award, 2017 Houska Award, 2016 Fonds der Stadt Wien für innovative interdisziplinäre Krebsforschung Award, 2010 Fritz Feigl Award)

Memberships Vice president of the Austrian Society of Analytical Chemistry, Board member of the Austrian Society of Proteomics and Metabolomics

Community service, editorial activities Scientific Advisory Board (since 2022): BAM, Berlin, Germany (www.bam.de); TU Wien Career Mentoring for Female Postdocs 2022; Steering committee of the Doctoral School of Chemistry, Faculty of Chemistry, University of Vienna, Curricular committee on Master Program Green Chemistry, bachelor Chemistry; External evaluator, committee member on (full) Professorships (HU Berlin, TU Freiberg, U Leoben, TU/U Graz, JKU Linz, TU Wien, BOKU) and tenure track appointments (ISAS Dortmund, U Wien, U Graz), Evaluator/panel member on Odysseus excellence programme, FWO, Belgium;

Evaluator for funding by agencies and Universities (Science Fund of Germany, Belgium, Netherlands, Luxemburg, ETH Zürich, HU Berlin); Member of the Antidoping "Schiedskommission", Austria

Entrepreneurship University spin-off ISOtopic Solutions (<https://isotopic-solutions.com>)

Organization of meetings 2017 Chair, Organizer, International VIth Symposium on Metallomics (200 participants), 2017, 2019, 2022 Chair, Organizer, Forum on Mass Spectrometry (200 participants), 2021 MiniSymposium on Next Generation Analytical Chemists (100 participants), elected Chair of the HPLC2027

Publications

1. Schaier, M. Theiner, S., Baier, D., Braun, G., Berger, W., **Koellensperger, G.**, Multiparametric Tissue Characterization Utilizing the Cellular Metallome and Immuno-Mass Spectrometry Imaging, *JACS Au* 2023 3 (2), 419-428, DOI: 10.1021/jacsau.2c00571
2. Schoeberl, A., Gutmann, M., Theiner, S., Schaier, M., Schweikert, A., Berger, W., **Koellensperger, G.**, Cisplatin Uptake in Macrophage Subtypes at the Single-Cell Level by LA-ICP-TOFMS Imaging, *Analytical Chemistry* 2021 93 (49), 16456-16465, DOI: 10.1021/acs.analchem.1c03442
3. El Abiead Y; Milford M; Schoeny H; Rusz M; Salek RM; **Koellensperger G**, Power of mzRAPP-Based Performance Assessments in MS1-Based Nontargeted Feature Detection (2022) *Analytical Chemistry*, DOI: 10.1021/acs.analchem.1c05270
4. Rampler, E., Abiead, Y.E., Schoeny, H., Rusz, M., Hildebrand, F., Fitz, V., **Koellensperger, G.** (2021) Recurrent topics in mass spectrometry-based metabolomics and lipidomics - standardization, coverage, and throughput. *Analytical Chemistry*, 93:519-545. DOI:10.1021/acs.analchem.0c04698
5. Theiner, S., Schoeberl, A., Fischer, L., Neumayer, S., Hann, S., **Koellensperger, G.** (2019) FI-ICP-TOFMS for quantification of biologically essential trace elements in cerebrospinal fluid-high-throughput at low sample volume (2019) *Analyst*, 144 (15), pp. 4653-4660. DOI: 10.1039/c9an00039a
6. Theiner, S., Schweikert, A., Van Malderen, S.J.M., Schoeberl, A., Neumayer, S., Jilma, P., Peyrl, A., **Koellensperger, G.**, (2019) Laser Ablation-Inductively Coupled Plasma Time-of-Flight Mass Spectrometry Imaging of Trace Elements at the Single-Cell Level for Clinical Practice, *Analytical Chemistry*, 91 (13), pp. 8207-8212. DOI: 10.1021/acs.analchem.9b00698
7. Schwaiger, M., Schoeny, H., El Abiead, Y., Hermann, G., Rampler, E., **Koellensperger, G.** (2019) Merging metabolomics and lipidomics into one analytical run. *Analyst*, 144:220-229. DOI:10.1039/C8AN01219A
8. Schwaiger, M., Rampler, E., Hermann, G., Miklos, W., Berger, W., **Koellensperger, G.** (2017) Anion-exchange chromatography coupled to high-resolution mass spectrometry: a powerful tool for merging targeted and non-targeted metabolomics. *Analytical Chemistry*, 89:7667-7674. DOI:10.1021/acs.analchem.7b01624
9. Rampler, E., Coman, C., Hermann, G., Sickmann, A., Ahrends, R., **Koellensperger, G.** (2017) LILY-lipidome isotope labeling of yeast: *in vivo* synthesis of ¹³C labeled reference lipids for quantification by mass spectrometry. *Analyst*, 142:1891-1899. DOI:10.1039/c7an00107j
10. Theiner S, Van Malderen SJM, Van Acker T, Legin A, Keppler BK, Vanhaecke F, **Koellensperger G** (2017) Fast High-Resolution Laser Ablation-Inductively Coupled Plasma Mass Spectrometry Imaging of the Distribution of Platinum-Based Anticancer Compounds in Multicellular Tumor Spheroids, *Analytical Chemistry*, 89 (23), pp. 12641-12645. DOI: 10.1021/acs.analchem.7b02681