

Curriculum Vitae

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Research topics

- Analytical chemistry, lipidomics and multiomics
- High-resolution mass spectrometry, LC-MS, multidimensional separation and standardization
- Targets: Lipids, glycolipids, metabolites, biomolecules in plasma, stem cells, plants, tumor microenvironment

Research achievements in numbers

- h-index=11, 23 publications with 8 first, 5 corresponding authorships
- Involvement in 5 projects (total budget: ~ 5 million €), 2 self-acquired as PI (budget: 310 000 €)

Higher education

- 07/2013 PhD graduation (passed with distinction) within the international doctoral programme: *BioToP- Biomolecular Technology of Proteins* (competitive selection process)
- 2010-2013 Cooperate PhD thesis at the Division of Analytical Chemistry (BOKU Vienna) and Biomin Research Center (Tulln, Austria).
- 2003-2009 Bachelor in *Food Science and Biotechnology* and Master in *Biotechnology* (passed with distinction) at the University of Natural Resources and Life Sciences Vienna (Austria)

Appointments

- 10/2021 Habilitation "Multiomics analysis using liquid chromatography coupled to high-resolution mass spectrometry" in the subject of Analytical Chemistry
- Since 07/2021 Group leader of the Rampler lab, University of Vienna
- Since 07/2019 Permanent senior scientist position: *Department of Analytical Chemistry*, University of Vienna
- 2018 Maternity leave
- 2017 One month invited research stay for labeled lipid analysis using high-resolution MS (Fusion Lumos) at *Thermo Fisher Scientific* Bremen (Germany)
- 2016 Two months collaborative research stay at the *Bioanalytics Research Institute ISAS* Dortmund (Germany) in the Lipidomics research group of Dr. Robert Ahrends
- 2014-2019 University assistant/PostDoc in the *Environmental Analysis* group, University of Vienna
- 2013-2014 Postdoctoral fellow in the *Protein Chemistry and Mass Spectrometry* group, Institute for molecular Pathology, Biocenter Vienna
- 2013 3 months research stay at the *University of Georgia* in Athens (USA) in the Glycomics research group of Prof. Ron Orlando
- 2010 2 months research stay *Federal Institute for Materials Research and Testing* in Berlin (Germany) the group of Dr. Norbert Jakubowski
- 2009 1 semester JOINT STUDY Scholarship at the *Griffith University* in Brisbane (Australia)

Awards

2019	Publication award 2020 of Austrian Proteomics and Metabolomics Association (1000 €)
2017	Houska Award within the team of Prof. Gunda Köllensperger (150.000 €)
2008	Poster prize at the ICP-MS User Meeting 2008 in Dresden (200 €)

Funding

Acquired third-party funding

2020	PI of the lipidomics project within the FWF research group <i>Tumour microenvironment as target and regulator of metal anticancer drugs</i> (222 000 €, total grant size: 1.5 M €)
2016	Prize AWS Prototype funding Co-PI (90.000 €)

Involvement third-party funding

2013-2014	PostDoc researcher in <i>Chromosome dynamics – unravelling the function of chromosomal domains</i> , SFB F34, Funding: 3 078 444 €
2010-2013	PhD Researcher in FWF Doctoral school <i>Biomolecular Technology of Proteins – BioToP</i> , Project W1224, Funding for 3 months PhD and travel abroad: ~ 30 000 €
2010-2013	PhD Researcher in cooperate FFG project Biomin and BOKU <i>Sustainable approaches to feed & food safety</i> - project numbers: 828013, 834724, 839107, Funding: ~ 200 000 €

Invited presentations

2020	Award lecture, Austrian Proteomic and Metabolomics Research Symposium, Salzburg
2017	Thermo Seminar Series, Bremen (Germany)
2014	Keynote speaker, Austrian Proteomic Research Symposium, Salzburg
2012	AAMSDG meeting, University of Georgia, Complex Carbohydrate Center, Athens (USA)

Other selected activities

- Referee for Analytical Chemistry, JAMS (ACS), Analyst (RSC), Analytical and Bioanalytical Chemistry, Plant Molecular Biology (Springer), Rapid Communication in Mass Spectrometry, Electrophoresis (Wiley), Analytica Chimica Acta, Methods (Elsevier), Metabolites, Molecules (MDPI)
- Shorted listed for the following tenure track positions: 1st Chemical Lipidomics (University of Calgary, 2021) 2nd (BOKU, 2019), 3rd Metabolomics (University of Vienna, 2018), 2nd - Analytical Chemistry (BOKU, 2014)
- Invited senior board member of the Austrian Proteomics and Metabolomics Association (APMA)
- Invited topic editor of Molecules (MDPI)
- Coordinator of Women In Chemistry (WoChem) network at the University of Vienna Member of the steering committee of the Vienna Metabolomics Center (VIME) of the University of Vienna
- Main Organizer and chair of Young Analytical Forum 2018 of the Austrian Society of Analytical Chemistry, Organization of the 6th International Symposium on Metallomics 2017, 28th Mass spectrometry Forum 2015, 2017, 2019, annual Metabolomics Seminar Series
- Austrian representor at the European Metabomeeting in 2020
- Post graduate training: 1.5 years “lead, manage and develop competences” (competitive selection process)

Publication summary

23 papers in peer-reviewed journals with 8 first, 5 corresponding authorships, 1 review, 2 book chapters

1 patent: WO2018007599A1

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10 key publications

E. Rampler, G. Hermann, G. Grabmann, H. Schoeny, Y. El Abiead, C. Baumgartinger, T. Koecher, G. Koellensperger, *Benchmarking non-targeted metabolomics using yeast derived libraries*, *Metabolites*, 2021, 11(3), 160, doi: 10.3390/metabo11030160

*E. Rampler, H. Schoeny, M. Ruzs, Y. El Abiead, F. Hildebrand, V. Fitz, G. Koellensperger, *Recurrent Topics in Mass Spectrometry-Based Metabolomics and Lipidomics — Standardization, Coverage, and Throughput*, *Analytical Chemistry*, 2021, 93, 1, 519–545, doi: 10.1021/acs.analchem.0c04698

*L. Panzenboeck, N. Troppmair, S. Schlachter, G. Koellensperger, J. Hartler and E. Rampler, *Chasing the major sphingolipids on earth: Automated annotation of plant glycosyl inositol phospho ceramides by glycolipidomics*, *Metabolites*, 2020, 10, 375

H. Schoeny, E. Rampler, G. Hermann, U. Grienke, J. M. Rollinger, G. Koellensperger, *Preparative supercritical fluid chromatography for lipid class fractionation—a novel strategy in high-resolution mass spectrometry based lipidomics*, *Analytical and Bioanalytical Chemistry*, 2020, 412, 2365-2374, doi:10.1007/s00216-020-02463-5

E. Rampler, H. Schoeny, M. Schwaiger-Haber, G. Koellensperger, *Novel LC-MS Workflows for Improved Lipid Identification and Quantification*, book chapter, Reference Module in Food Science, Elsevier, 2020, doi: 10.1016/B978-0-08-100596-5.22847-3

M. Ruzs, E. Rampler, B.K. Keppler, M. A. Jakupec, G. Koellensperger, *Single spheroid metabolomics: Optimizing sample preparation of three-dimensional multicellular tumor spheroids*, *Metabolites*, 2019, 9, 304, doi: 10.3390/metabo9120304

*E. Rampler, D. Egger, H. Schoeny, M. Ruzs, M.P. Pacheco, G. Marino, C. Kasper, T. Naegele, G. Koellensperger, *The Power of LC-MS Based Multiomics: Exploring Adipogenic Differentiation of Human Mesenchymal Stem/Stromal Cells*, *Molecules*, 2019, 24, 3615, doi:10.3390/molecules24193615

*E. Rampler, A. Criscuolo, M. Zeller, Y. El Abiead, H. Schoeny, G. Hermann, E. Sokol, K. Cook, D. A. Peake, B. Delanghe, G. Koellensperger, *A novel lipidomics workflow for improved human plasma identification and quantification using RPLC-MSn methods and isotope dilution strategies*, *Analytical Chemistry*, 2018, 90, 11, 6494-6501, doi: 10.1021/acs.analchem.7b05382

E. Rampler, H. Schoeny, B. M. Mitic, Y. El Abiead, M. Schwaiger, G. Köllensperger, *Simultaneous non-polar and polar lipid analysis by on-line combination of HILIC, RP and high resolution MS*, *Analyst*, 2018, 143, 1250-1258, doi: 10.1039/c7an01984j

*E. Rampler, C. Coman, G. Hermann, A. Sickmann, R. Ahrends, G. Koellensperger, *LILY-Lipidome Isotope Labeling of Yeast: In vivo synthesis of ¹³C labeled reference lipids for quantification by mass spectrometry*, *Analyst*, 2017, 142, 1891-1899, doi: 10.1039/c7an00107j