

# Curriculum Vitae

## Dr. Georg Aichinger, MSc

Laboratory of Toxicology  
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### Education

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2013-2017	<b>Doctoral</b> studies in chemistry, University of Vienna (PhD conferred on Oct. 24 <sup>th</sup> , 2017)
2009-2012	Studies in biological chemistry ( <b>Master</b> of Science), University of Vienna
2007-2009	Studies in chemistry ( <b>Bachelor</b> of Science), University of Vienna
2003-2007	Diploma studies in chemistry, University of Innsbruck
1994-2002	High School, BRG Adolf-Pichler-Platz, 6020 Innsbruck

### Professional Experience

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02/2021-ongoing	<b>Postdoctoral research fellow.</b> Laboratory of Toxicology, ETH Zürich, Switzerland
12/2017-12/2020	<b>Research assistant (post doc).</b> Bioactivities & Molecular Mechanisms group, Department of Food Chemistry and Toxicology, University of Vienna, Austria
09/2013-09/2017	<b>Research assistant (pre doc).</b> Department of Food Chemistry and Toxicology, University of Vienna, Austria: <i>“Interactions of selected polyphenols with drugs and food contaminants.”</i>
2012	<b>Student research assistant (master thesis).</b> Department of Analytical Chemistry, University of Vienna, Austria: <i>“Development of aptamer-based analytical techniques for bisphenol A”</i>
2002-2003	<b>Zivildienst</b> (12 months). Altenwohn- und Pflegeheim Unterperfuss, Tirol, Austria.

## Publications (5 most important)

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- 1 [G. Aichinger\\*](#), M. Stevanoska, K. Beekmann, S.J. Sturla, Physiologically-based pharmacokinetic modeling of urolithin A predicts that its bioavailability is orders of magnitudes lower than concentrations that induce toxicity, but also neuroprotective effects. *Molecular Nutrition & Food Research* (2023). <https://doi.org/10.1002/mnfr.202300009>
- 2 F. Crudo, [G. Aichinger](#), J. Mihajlovic, E. Varga, L. Dellafiora, B. Warth, C. Dall'Asta, D. Berry, and D. Marko, In vitro interactions of *Alternaria* mycotoxins, an emerging class of food contaminants, with the gut microbiota: a bidirectional relationship. *Archives of Toxicology* (2021). <http://doi.org/10.1007/s00204-021-03043-x>
- 3 F. Crudo, [G. Aichinger](#), J. Mihajlovic, L. Dellafiora, E. Varga, H. Puntsher, B. Warth, C. Dall'Asta, D. Berry, and D. Marko, Gut microbiota and undigested food constituents modify toxin composition and suppress the genotoxicity of a naturally occurring mixture of *Alternaria* toxins in vitro. *Archives of Toxicology* (2020). <http://doi.org/10.1007/s00204-020-02831-1>
- 4 [G. Aichinger](#), G. Bliem, and D. Marko, Systemically Achievable Doses of Beer Flavonoids Induce Estrogenicity in Human Endometrial Cells and Cause Synergistic Effects With Selected Pesticides. *Frontiers in Nutrition* 8(293) (2021). <http://doi.org/10.3389/fnut.2021.691872>
- 5 [G. Aichinger](#), G. Pahlke, H. Puntsher, J. Groestlinger, S. Grabher, D. Braun, K. Tillmann, R. Plasenzotti, G. Del Favero, B. Warth, H. Höger, D. Marko, Markers for DNA damage are induced in the rat colon by the *Alternaria* toxin altertoxin-II, but not a complex extract of cultured *Alternaria alternata*. *Frontiers in Toxicology* 4 (2022) 977147. <http://doi.org/10.3389/ftox.2022.977147>

**A full list of peer-reviewed publications (30 in total, h-factor 13) is available from [OrCID](#)**

## Scientific talks (3 most important)

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2017	<i>"Combinatory effects of the isoflavone genistein with potential food contaminants."</i> 11th ISANH Congress on Polyphenols application, Wien (Austria)
2019	<i>"Alternaria toxins in chemical mixtures: anti-estrogenic behavior and underlying mechanisms."</i> 41 <sup>st</sup> Mycotoxin Workshop, Lissabon (Portugal).
2022	<i>"GutXen: A PBPK modeling / qIVIVE approach to account for the bioactivation of endocrine active substances by the gut microbiome."</i> 2022 retreat of the Swiss Center for Applied Human Toxicology (SCAHT), Olten (Switzerland).

## Funding

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05/2022-04/2029	<b>PARC: A European partnership to improve chemical risk assessment</b> Sturla (PI), CHF 1'732'125 Contribution of ETH Zürich to WP 5.3
03/2022	<b>ETH Zürich Equipment Grant</b> Aichinger (PI), CHF 36'494 <i>Anaerobic safety workstation, centrifuge and shaking incubator</i>
01/2022-12/2023 (ongoing)	<b>Swiss Center of Applied Human Toxicology (SCAHT) external project grant</b> Aichinger (PI), CHF 140'000 <i>GutXen: Modeling the impact of gut microbial metabolism to food-born xenoestrogen exposure.</i>
01/2021-01/2024 (ongoing)	<b>Future Food Fellowship Grant 2020</b> Aichinger (PI), CHF 390'000 <i>Urolithins: A bioinformatics / personalized nutrition approach to enlighten kinetics of beneficial gut microbial products. (UroKin)</i>

## Memberships

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Swiss Society of Toxicology, Swiss Chemical Society, Society of Endocrinology, American Chemical Society