Name:	**Sonja Koppenhöfer**
E-mail:	sonjakoppenhofer@gmail.com
Address:	Warnstedtstr. 62 22525 Hamburg
Date of birth:	26. August 1991
Place of birth:	Stuttgart, Germany
Nationality:	German

Work experience

Since April 2022 — **Consultant**
Ecker + Ecker GmbH, Hamburg, Germany

- Focus:
  - AMNOG – Market Access and Evidence of medicinal products
  - DiGA – Evidence Assessment of Digital Health Applications
  - Reference prices – Simulations
- Activities: Benefit and evidence assessment of clinical studies and app concepts with regard to the requirements of the authorities (G-BA and BfArM), reference price simulation, project organisation and communication

September 2018 – Oktober 2022 — **Ph. D. Microbiology**
Memorial University of Newfoundland, St. John's, Canada

- Focus: **Data analysis** – Genomic and regulatory patterns
- Activities: Research, teaching, student supervision
- Thesis: New insights into the evolution and regulation of gene transfer agents in Alphaproteobacteria through comparative genomics and transcriptomics

Education

2015 – 2018 — **M. Sc. Microbiology**
Carl von Ossietzky University of Oldenburg and Helmholtz Center for Infection Research (HZI), Braunschweig, Germany

- Focus: Microbial Communication – Regulatory Networks
- Thesis: Time resolved response of *Dinoroseobacter shibae* DSM 16493 towards quorum sensing signaling – Transcriptomics, phenotypical changes and single cell analysis (1.6)

2012 – 2015	**B. Sc. Biology** *Friedrich-Schiller-University, Jena, Germany* ● Focus: Microbiology– Regulatory Networks ● Thesis: The effect of Rap-phosphatases on *Bacillus subtilis* differentiation (2.4)
2008 – 2011	**High school** *Gustav-von-Schmoller-Schule, Heilbronn, Germany* ● Main subjects: Economics, Biology ● Final grade: 2.6

Further activities

Spring 2022	**Clinical Studies – Methods and pitfalls** Medical faculty Heidelberg
Spring 2022	**Critical evaluation of medical studies** Cochrane Austria Workshop
Summer 2021	**Publication of the R package "reorientateCircGenomes"** https://github.com/SonjaElena/reorientateCircGenomes
Summer 2021	**Updating the R code** Titel „Statistik mit R für Dummies", Wiley-VCH GmbH
Autumn 2020	**Pathway and Network Analysis** Canadian Bioinformatics Workshops
Spring 2020	**Committee member** Phage Canada 2020 Virtual Symposiums
Summer 2019	**Poster presentation** Symposium of the Roseobacter Collaborative Research Center, Oldenburg
Autumn 2017	**Student Assistant** Group Microbial Communication, HZI, Braunschweig
2011 – 2012	**Au Pair and Language school** Northwich, England

Skills

Languages	German (mother tongue) English (professional)
Software	R, Latex, Adobe Illustrator, Git

Publications

Koppenhöfer, S., & Lang, A. S. **(2022).** Patterns of abundance, chromosomal localization, and domain organization among c-di-GMP-metabolizing genes revealed by comparative genomics of five alphaproteobacterial orders. BMC genomics, 23(1), 834

Koppenhöfer, S., Tomasch, J., & Lang, A. S. **(2022).** Shared properties of gene transfer agent and core genes revealed by comparative genomics of Alphaproteobacteria. Microbial Genomics, 8(11).

Kogay, R., **Koppenhöfer, S.**, Beatty, J. T., Kuhn, J. H., Lang, A. S., & Zhaxybayeva, O. (**2022**). Formal recognition and classification of gene transfer agents as viriforms. Virus Evolution, 8(2), veac100.

Koppenhöfer, S., Tomasch, J., Ringel, V., Birmes, L., Brinkmann, H., Spröer, C., ... & Petersen, J. (**2022**). The Sixth Element: a 102-kb RepABC Plasmid of Xenologous Origin Modulates Chromosomal Gene Expression in *Dinoroseobacter shibae*. Msystems, 7(4), e00264-22.

Tomasch, J., **Koppenhöfer, S**., & Lang, A. S. (**2021**). Connection between chromosomal location and function of CtrA phosphorelay genes in Alphaproteobacteria. Frontiers in Microbiology, 12, 662907.

Gallegos-Monterrosa, R., Christensen, M. N., Barchewitz, T., Koppenhöfer, S., Priyadarshini, B., Bálint, B., ... & Kovács, Á. T. (**2021**). Impact of Rap-Phr system abundance on adaptation of *Bacillus subtilis*. Communications Biology, 4(1), 468.

Koppenhöfer, S., & Lang, A. S. **(2020).** Interactions among Redox Regulators and the CtrA Phosphorelay in *Dinoroseobacter shibae* and *Rhodobacter capsulatus*. Microorganisms, 8(4), 562.

Koppenhöfer, S., Wang, H., Scharfe, M., Kaever, V., Wagner-Döbler, I., & Tomasch, J. **(2019).** Integrated transcriptional regulatory network of quorum sensing, replication control, and SOS response in *Dinoroseobacter shibae***.** Frontiers in Microbiology, 10, 803.