

Marta Sudo

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Division of Microbial Ecology
Department of Microbiology and Ecosystem Science
Centre for Microbiology and Environmental Systems Science
University of Vienna
Djerassiplatz 1, 1030 Vienna, Austria

Education

Tertiary

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|-------------------|---|
| 01/2020 – present | PhD (University of Vienna, Austria)
Major in Biology |
| 11/2017 – 11/2019 | Master of Science (University of Vienna, Austria)
Major in Microbial Ecology
Graduation with Distinction |
| 10/2015 – 11/2017 | Bachelor of Science (University of Vienna, Austria)
Major in Biology and Ecology |

Secondary

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| 09/2011 – 06/2014 | The Academic High School (Toruń, Poland)
under supervision of the Nicolaus Copernicus University
Major in Biology, Chemistry and Mathematics
Graduation with Distinction |
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Research experience

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| 12/2018 – 12/2019 | Study Assistant
Team Phycology, Department of Limnology and Bio-Oceanography, University of Vienna
PI: Ass.-Prof. Dr. Michael Schagerl <ul style="list-style-type: none">Isolation and maintenance of cultures of <i>Arthrospira fusiformis</i> for the project “Species delineation and autecology of the filamentous green alga <i>A. fusiformis</i>” |
| 04/2018 – 11/2019 | Master’s Research Project
Marine Symbiosis Group, Division of Microbial Ecology, University of Vienna
PI: Ass.-Prof. Dr. Jillian Petersen
Thesis title: “Hidden diversity of the sulphur oxidation metabolism as an adaptation to various lifestyles in lucinid symbionts” <ul style="list-style-type: none">Investigation of the evolution of sulphur oxidizing proteins and their functional roles in the symbiont adaptation to the biphasic lifestyle. |
| 02 – 11/2018 | Research Assistant
Marine Symbiosis Group, Division of Microbial Ecology, University of Vienna
PI: Ass.-Prof. Dr. Jillian Petersen <ul style="list-style-type: none">Monitoring and maintenance of juvenile lucinid clams, optimization of quantification protocols and microscopic observations of the developmental stages. |
| 10/2017 – 11/2017 | Undergraduate Research Project
Core Facility of Cell Imaging and Ultrastructure Research, University of Vienna
PI: Dr. Marianne Koller-Peroutka
Thesis title: “Functional cytology of the trap entrance in the genus <i>Utricularia</i> . Comparison of plants from different habitats: <i>U. gibba</i> , <i>U. purpurea</i> and <i>U. calycifida</i> .” <ul style="list-style-type: none">Microscopic functional analyses of the glands in the trap entrance, dependence in the occurrence of the gland types in context of the environmental background. |
| 07/2015 – 09/2015 | Laboratory assistant
Evolutionary Biology and Molecular Ecology, Institute of Zoology, University of Graz
PI: Ass.-Prof. Dr. Steven Weiss <ul style="list-style-type: none">Genetic-based methods in population genetics and phylogeography. |

Teaching and supervision experience

- 02/2021 & 02/2022 Teaching assistant**
Department of Microbiology and Ecosystem Science
- Organisation and assistance in Master's lab course – Practical Course in Molecular Microbiology, Microbial Ecology and Immunobiology
- 12/2018 – 12/2019 Study assistant**
Department of Limnology and Bio-Oceanography, University of Vienna
- Assistance in undergraduate course – cultivation techniques and ecophysiological experiments,
 - Assistance in supervision of two master's students in their scientific practice internship.
- 03/2018 – 09/2018 Teaching assistant**
Department of Organic Chemistry, University of Vienna
- Assistance in undergraduate chemistry lab course with the use of scientific equipment, introductory and summary lectures and tests – Redox chemistry and gas volumetry.

Grants and Fellowships

- 08/2017** FEMtech Working Experience for female students – WasserCluster Lunz, Austria

Conferences and seminars talks

- 11/2019** 12th "Let's talk about symbiosis!" workshop, University of Vienna
- 09/2019** 12th International Workshop on New Techniques in Microbial Ecology, Aarhus University, Denmark
- 04/2018** 5th International Symposium on Microbial Sulfur Metabolism, Vienna
- 10/2017 - present** "Advances in Molecular Microbial Ecology and Evolution" Seminar, University of Vienna

Extracurricular Service

- 04/2018** Assistance in organisation of Austrian Biologist Association symposium "BioGoesBusiness"
- 03/2014** Participation in the Model European Parliament as a delegate in Committee on Constitutional Issues, Tartu, Estonia

Outreach

Tutor during "A journey into microbial life on earth" Kinderuni 2019 workshop

Research Skills

- Molecular biology** DNA/RNA extraction, PCR, qPCR
- Cell biology** Fluorescence in situ hybridisation, epifluorescence and confocal microscopy, tissue disruption
- Bioinformatics**
- Statistical analysis using R packages and DataLab 4.0
 - Phylogenetic analyses using command line-based IQ-Tree
 - Sequence analysis: sequence alignment, protein domain architecture analysis, genome database mining
 - RNA-seq data processing and analysis
- Biogeochemistry**
- HPLC based methods of sulphur compound identification and quantification
 - Colorimetric determination of dissolved sulphur compounds
- Microbiology**
- Culture-based microbiology and aseptic techniques
 - Algae isolation techniques
- Fieldwork**
- Familiar with techniques for invertebrate collection, relaxation and fixation, measurement of biogeochemical parameters

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- 2020 - 2022 Marine Biology Station, Piran, Slovenia
 - 2019 IRTA center, Sant Carles de la Ràpita, Spain
 - 2018 & 2019 HYDRA Research Station, Elba, Italy

Animal husbandry Assisted the maintenance of a marine aquarium facility for cultivating invertebrates
