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Departments of Zoology & Biochemistry
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South Parks Road
Oxford OX1 3QU
United Kingdom

RESEARCH INTERESTS

- Interference competition in bacteria
- Microbial cooperation
- Virulence evolution
- Social evolution

ACADEMIC HISTORY

Postdoctoral Researcher, Department of Zoology, University of Oxford, United Kingdom 11/2017 – present
Advisor: Prof. Kevin Foster

Ph.D., Life Science Zurich Graduate School, University of Zurich, Switzerland 6/2013 – 9/2017
Thesis title: “Evolution of cooperation and virulence in an opportunistic pathogen”
Advisor: Prof. Rolf Kümmerli

Master of Science, Microbiology and Immunology, ETH Zurich, Switzerland 9/2011 – 4/2013
Master Thesis in Microbiology (grade 6.0 - „excellent“)

Bachelor of Science, Biology, LMU Munich, Germany 9/2008 – 6/2011
Bachelor Thesis in Microbiology (grade 1.0 - „excellent“)

PUBLICATIONS

Granato ET*, Meiller-Legrand TA*, Foster KR. The Evolution and Ecology of Bacterial Warfare.
Current Biology (2019) doi: 10.1016/j.cub.2019.04.024 (*equal contribution)

Rezzoagli C, **Granato ET**, Kümmerli R. *In vivo* microscopy reveals the impact of *Pseudomonas aeruginosa* social interactions on host colonization.
The ISME Journal (2019) doi: 10.1038/s41396-019-0442-8

Granato ET, Ziegenhain C, Marvig RL, Kümmerli R. Low spatial structure and selection against secreted virulence factors attenuates pathogenicity in *Pseudomonas aeruginosa*.
The ISME Journal (2018) doi: 10.1038/s41396-018-0231-9

Granato ET, Kümmerli R. The path to re-evolve cooperation is constrained in *Pseudomonas aeruginosa*.
BMC Evolutionary Biology (2017) 17:214. doi: 10.1186/s12862-017-1060-6

Granato ET, Harrison F, Kümmerli R, Ross-Gillespie A. Do Bacterial “Virulence Factors” Always Increase Virulence? A Meta-analysis of Pyoverdine Production in *Pseudomonas aeruginosa* as a Test Case.
Frontiers in Microbiology (2016) 7:1952. doi: 10.3389/fmicb.2016.01952

PUBLICATIONS (cont.)

Kümmerli R, Santorelli L, **Granato ET**, Dumas Z, Griffin AS, West SA. Co-evolutionary dynamics between public good producers and cheats in the bacterium *Pseudomonas aeruginosa*.
Journal of Evolutionary Biology (2015) 28: 2264–2274. doi: 10.1111/jeb.12751

CONGRESS PRESENTATIONS

17 th Congress of the European Society for Evolutionary Biology (ESEB), Groningen, Netherlands Oral presentation	8/2019
International Meeting on Phenotypic Heterogeneity and Sociobiology of Bacterial Populations (SPP1617), Hohenkammer, Germany <i>Poster presentation</i>	3/2019
17 th International Symposium on Microbial Ecology (ISME), Leipzig, Germany <i>Poster presentation</i>	8/2018
1 st International TRANSIT workshop on Cross-disciplinary Research, York, United Kingdom Oral presentation	4/2018
16 th Congress of the European Society for Evolutionary Biology (ESEB), Groningen, Netherlands Oral presentation	8/2017
116 th General Meeting of the American Society of Microbiology (ASM), Boston, USA <i>Poster presentation</i>	6/2016
Behaviour, Ecology, Environment and Evolution Seminar, University of Zurich, Switzerland Oral presentation	3/2015
15 th Congress of the European Society for Evolutionary Biology (ESEB), Lausanne, Switzerland <i>Poster presentation</i>	8/2015
Evolutionary Medicine Conference, Zurich, Switzerland Oral presentation	7/2015
15 th International Symposium on Microbial Ecology (ISME), Seoul, South Korea <i>Poster presentation</i>	8/2014
Workshop in Evolutionary Biology, Guarda, Switzerland Oral presentation	6/2014

SCHOLARSHIPS AND AWARDS

SNF Postdoc Mobility Fellowship [74'250 CHF]	4/2019
<i>The ISME Journal</i> Cover Art Competition 2018, Top 3 Finalist	8/2018
SNF Early Postdoc Mobility Fellowship [74'250 CHF]	11/2017
ASM Student and Postdoctoral Travel Award [750 USD]	3/2016
Student Oral Presentation Award (Evolutionary Medicine Conference, Zurich)	7/2015

SCHOLARSHIPS AND AWARDS (cont.)

Research Fund of the University of Zurich (Forschungskredit) [86'000 CHF]	1/2016 – 2/2017
Scholarship of the German National Merit Foundation [12'000 EUR]	9/2011 – 4/2013
Award for graduating in the top 10% of class, Bachelor of Science, LMU Munich, Germany	6/2011

TEACHING ACTIVITIES

Course organizer , Experimental Evolution Organization and execution of a yearly 2-weeks laboratory course for undergraduate students; grading of written reports; supervision of four teaching assistants. Department of Zoology, University of Oxford	2/2019- present
Teaching assistant , Evolutionary Microbiology Organization and execution of a yearly 4-weeks full-time laboratory course for Bachelor and Master students; grading of written and oral reports. Faculty of Science, University of Zurich	2/2014 – 4/2017
Teaching assistant , General Microbiology Assistance in execution of a 2-weeks full-time laboratory course for Bachelor students, marking of final exams. Department of Biology, LMU Munich	3/2010

COURSEWORK AND TRAINING (selection)

Advanced Microscopy Course (20h) Micron Advanced Imaging Facility, University of Oxford, United Kingdom	11/2017
Mentorship training (30 hours) Life Science Zurich Graduate School, Zurich, Switzerland	1/2016
Logic and reasoning for scientists (30 hours) Life Science Zurich Graduate School, Zurich, Switzerland	3/2015
Voice training and presentation skills (30 hours) Center for Advanced Training, Zurich, Switzerland	5/2014
Project management for research (30 hours) Center for Advanced Training, Zurich, Switzerland	10/2013
Leadership skills (30 hours) Center for Advanced Training, Zurich, Switzerland	11/2013

SUPERVISION OF JUNIOR RESEARCHERS

PhD Mentoring Program, Life Science Graduate School Zurich Mentoring of junior PhD students Annika Hausmann, Arturo Rinaldi, Weronika Barcik	6/2014 – 9/2017
Supervision of laboratory internship Isa Moreno	1/2015- 4/2015

INSTITUTIONAL RESPONSIBILITIES

Early Career Researcher Network , University of Oxford, United Kingdom Organization of scientific, social, and training events for early career researchers Social Media & Outreach Representative	9/2018 – present
Committee for Appointment of Faculty , University of Zurich, Switzerland Representative for mid-level faculty	2017

OUTREACH

SkypeAScientist Skyping with class rooms around the world as part of the SkypeAScientist initiative.	4/2019 - present
Twitter Active Twitter profile with >2000 followers, regular interactions with general public & dissemination of scientific content.	2010 - present
Teaching on Twitter Lecturer for the 1 st worldwide online open access microbiology course (“EUROmicroMOOC”) Preparation and delivery of online lecture on “Bacterial cooperation”, accessible to a general audience via Twitter.	10/2018
UNIQ Summer School Demonstrator for practical classes on antibiotics, delivered to state school students. Department of Biochemistry, University of Oxford, United Kingdom	8/2018
Science Lab Zurich Organization and execution of guided tour through microbiology laboratories for Swiss high school students. Faculty of Science, University of Zurich, Switzerland	2/2017
International Physics Olympiad Organization and execution of guided tour through microbiology laboratories for international high school students. Faculty of Science, University of Zurich, Switzerland	7/2016
Info Day Biology Oral presentation of Master in Biology at ETH to Swiss high school students. Department of Biology, ETH Zurich, Switzerland	3/2012
Open Day Biochemistry Assisting in presentation of biochemistry research to the general public. Max-Planck-Institute of Biochemistry, Martinsried, Germany	10/2010

PERSONAL SKILLS

Languages: German (native)
English (proficient)
Dutch (beginner)
French (beginner)

Digital Competences: MS Office Suite
R, MatLab
Adobe Creative Suite
Mendeley Reference Manager
ZEN imaging software