DANIEL SCHLÄPPI

18. September 1987, Swiss citizen

EDUCATION

2020, Aug: PhD in Ecology and Evolution, Institute of Bee Health, University of Bern (CH)
Thesis title*: From individual, over caste to colony level: Impact of viruses and pesticides on ants*; supervision – Prof Dr Peter Neumann

2016, Mar: Pedagogical University Bern (CH)
Teaching diploma for biology and sports at high school level

2016, Mar: Master Minor in Science of Sport Science, University of Bern (CH)

2014, Jul: Master in Ecology and Evolution with special qualification in Animal Ecology and Conservation, Institute of Ecology and Evolution, University of Bern (CH)
Thesis title: *Integrating ecosystem engineering and food webs – a model system with ants, aphids and parasitoids*; supervision – Dr Dirk Sanders & Prof Dr Wolfgang Nentwig

2012, Jul: Bachelor of Science in Sport Science, University of Bern (CH)
Thesis title: *Development and validation of a marker cluster set for virtual reality real-time interaction considering biomechanical requirements*; supervision – Dr Ralf Kredel & Prof Dr Ernst-Joachim Hossner

PROFESSIONAL EXPERIENCE & COMPETENCES

2020, Nov – Now: Swiss National Science Foundation (SNSF) Post-doctoral researcher at the School of Biological Sciences, University of Bristol (UK)
- Planning, managing and implementing a research project on disease transmission in social insects

2014, Aug – 2020, Oct: Doctoral researcher at the Institute of Bee Health, University of Bern (CH) + Mandates in collaboration with Prof Dr Peter Neumann
- Planning, managing and implementing a long-term research project on pathogen transmission between different hosts and effects of pesticides on ants combining molecular laboratory work, ecological fieldwork & data analysis using the software R
- Field sampling and long-term care and maintenance of laboratory cultures (*Lasius niger*, *Myrmica rubra*, *Agelena labyrinthica*, *Aphis fabae*, *Myzus persicae*, *Lysiphlebus fabarum*, *Praon volucre*, *Acheta domesticus*, *collembola*)
- Supervision of students, teaching activities & administrative tasks

2000 – 2015: Variety of student- or parttime jobs as a versatile employee
- Federal office for the environment: Field assistant for the nationwide recording of river profiles
- Migros Aare: Cashier & versatile substitute worker
- ProVelo Thun: Bikecourse instructor for kids

CONTACT

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PROFILE

- Researcher on toxicology and emerging infectious diseases in social insects
- Independent, communicative & open team player
- Experienced with planning and implementing scientific projects, laboratory insect rearing, ecological & molecular research methods
- Scientific English as imperative communication tool
- h-index = 1; i10-index = 0; total citations = 6; RG-Score = 4.75

REFERENCES

- Prof Dr Peter Neumann
peter.neumann@vetsuisse.unibe.ch
Institute of Bee Health, University of Bern (CH)

SUMMARIZED RESEARCH ACTIVITIES

Scientific conferences participated:	6 conferences, 1 workshop
Oral presentations at scientific meetings:	3 (1 invited)
Posters at scientific conferences:	3
Publications in peer-reviewed scientific journals:	3
Research visits:	Vienna – Group of Prof Dr Sylvia Cremer (2019)

Membership in scientific organizations:

International Union for the Study of Social Insects (IUSSI, since 2018)
Prevention of Honey Bee COlony LOSSes – honeybee research association (COLOSS, since 2019)

SCIENTIFIC PUBLICATIONS

Articles in international peer-reviewed journals (published or submitted, N=4):

1. Schläppi D, Lattrell P, Yañez O, Chejanovsky N, & Neumann P (2019) Foodborne Transmission of Deformed Wing Virus to Ants (*Myrmica rubra*). Insects, 10(11), 394. doi:10.3390/insects10110394.
2. Schläppi D, Chejanovsky N, Yañez O & Neumann P (2020) Foodborne transmission and clinical symptoms of honeybee viruses in ants *Lasius* spp. Accepted in Viruses, 12(3), 321. doi: 10.3390/v12030321.
3. Schläppi D, Kettler N, Straub L, Glauser G & Neumann P (2020) Long-term effects of neonicotinoids on ants. *Communications Biology*, 3(1), 335, doi:10.1038/s42003-020-1066-2.
4. Schläppi D, Kettler N, Straub L, Glauser G, Yañez O & Neumann P. Double the trouble? How a virus and a neonicotinoid insecticide act on ants. Submitted to *Scientific Reports*.

Talks at scientific meetings (N=3):

1. Schläppi D (2018) Virus spillover from honey bees to ants. Biology 18, Neuchâtel, Switzerland
2. Schläppi D (2018) Black garden ants are alternative hosts of honey bee viruses. Seeds Conference, Neuchâtel, Switzerland
3. Schläppi D (2019) There and back again – a virus tale. Evolunch – Institute of Science and Technology (IST), Vienna, Austria

Posters at scientific meetings (N=3):

1. Schläppi D, Lattrell P, Yañez O, Chejanovsky N, & Neumann P (2017) Foodborne virus transmission from honeybees (*Apis mellifera*) to ants (*Myrmica rubra*). AG-Tagung, Celle, Germany
2. Schläppi D, Yañez O, Chejanovsky N & Neumann P (2018) Black garden ants are alternative hosts of honey bee viruses. EurBee 8, Ghent, Belgium
3. Schläppi D, Kettler N, Glauser G, Straub L & Neumann P (2019) Long live the queen - Differential pesticide loads between castes of black garden ants. IUSSI, Vienna, Austria

OBTAINED GRANTS

Title	Organization	Amount	Period
Travel-grant for young researchers	Phil. nat. faculty of the University of Bern (CH)	1'200.- CHF	2018
Übertragung von Honigbienen-Viren auf Spinnen	Stiftung Dreiklang für ökologische Forschung und Bildung	15'000.- CHF	2020
VITAL – Virus transmission within ant colonies	Schweizerischer Nationalfonds FNSNF (P2BEP3_195575)	97'550.- CHF	2020-2021
Open Access Publication Fund	University of Bern (CH)	1500.- CHF	2020

TEACHING

Lectures & Practica:

- Student input lecture (2016/2017/2018/2019/2020) Contribution to the student course – Biology of the honeybee and apiculture for veterinarians and biologists, Institute of Ecology and Evolution, University of Bern (CH)

- Identification of Spiders – Practical Assistant (2014) Bachelor program, Institute of Ecology and Evolution, University of Bern (CH)
- Introduction to the identification of insects – Practical Assistant (2013/2014) Bachelor program, Institute of Ecology and Evolution, University of Bern (CH)
- Practical Assistant – Anatomy and dissection of earthworms (2014) Bachelor program, Institute of Ecology and Evolution, University of Bern (CH)
- Honeybee anatomy and dissection (2018/2019) Contribution to the student course – Biology of the honeybee and apiculture for veterinarians and biologists, Institute of Ecology and Evolution, University of Bern (CH)

Co-supervision of students with Prof. Dr. Peter Neumann:

- Nina Kettler (Bachelor, 2017) Impact of neonicotinoids on the colony development of *Lasius niger*
- Patrick Lattrell (Bachelor, 2018) Foodborne transmission of Deformed wing virus to *Myrmica rubra*
- Mirjam Laska (Master, 2019) Virus transmission between honeybees, ants and aphids

PUBLIC OUTREACH

2020: Interview for the magazine Tierwelt on effects of neonicotinoids on ants

74 Articles in print and online news media based around the publication in *Communications Biology* on Long-term effects of neonicotinoids on ants

2017: Ant-excursion, Natur- und Vogelschutzverein Steffisburg NVS, Thun, Switzerland

2017: Public talk – «Ameisen, Faszination pur», Natur- und Vogelschutzverein Steffisburg NVS, Steffisburg, Switzerland

LANGUAGES

German:	native speaker	French:	passive knowledge B1
English:	work language C2	Italian:	A1

ADVOCATIONAL COMMITMENTS

Death by Chocolate – Bass player and finance supervisor of the international striving band since 2003

Sports – Floorball, running, cycling, swimming, table tennis, yoga