

CLAUDIA BUSER MOSER

Born on 05.05.1982 in Zurich, Nationality: Swiss, Hubring 47 • 8303, Bassersdorf • Switzerland,
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EDUCATION

01/2016 – 07/2016	CAS in Business Management, University of Zürich, Switzerland
07/2008 – 09/2011	Ph.D. position, Department of Aquatic Ecology, Eawag, Dübendorf, and Institute of Integrative Biology, ETH Zürich, Switzerland, Advisers: Piet Spaak & Justyna Wolinska
05/2007 – 05/2008	Master of Science in Biology, Systematics and Evolution, Zoological Museum, University of Zürich, Switzerland; Advisers: Paul Ward & Luc Bussière

EMPLOYMENT AFTER PhD

08.2017 – present	Oberassistent (Junior Lecturer) - Evolutionary Ecology (with Prof. Jokela); Institute of Integrative Biology, ETH Zürich, Switzerland
03/2012 – 07/2014	Post-Doctoral Research Assistant - Evolutionary Ecology (with Prof. Goddard); SBS, University of Auckland, Auckland, New Zealand
09/2011 – 12/2011	Post-Doctoral Research Assistant - Evolutionary Ecology (with Dr. Spaak), Department of Aquatic Ecology, Eawag, Dübendorf, Switzerland

TEACHING ACTIVITIES

Responsible lecturer:	Biologie III: Ökologie (ETHZ, undergraduate level)(26h), since 2017
Assisting lecturer:	BIOSCI 210 “Evolution and the origin of life-Coevolution”. (University of Auckland, undergraduate level)(6h) 2013
Tutor:	“Biodiversitätsexkursionen: Spinnentiere”(ETHZ), 2017 “Systematische Biologie: Zoologie”, (ETHZ), 2007, 2015-2017 Limnoecology course, (ETHZ), 2011 Reproduction course, (University of Zürich), 2007 Systematic Zoology course (University of Zürich), 2005 and 2007 Practical chemistry course (University of Zürich), 2004

SUPERVISION OF STUDENTS

BSc:	Florence Gilliéron (ETHZ) 2019 Christina Skirgaila (ETHZ) 2019
MSc:	Aijuan Liao (ETHZ) 2018 – 2019 Ramon Dallo (ETHZ) 2018 – 2019 Nathan Camp (University of Auckland)(Co-supervisor) 2013

APPROVED RESEARCH PROJECTS

Faculty of Science grant	Awarded to PI M. Goddard , 2012-2014, NZD 100'000; I was a named PDRA on this project, as I could not apply as a PI at that stage of my career. I did, however, lead the application process and acted as the scientific lead of the project.
SBS internal research fund	Awarded to PI C. Buser, Co-PI M. Goddard , 2012, NZD 5'000
SNF - Fellowships for prospective researchers	As sole applicant , 2011, CHF 52'500
ETH travel fund	As sole applicant , 2010, CHF 725
SETAC-Portland travel award	As sole applicant , 2010, USD 265
Eawag Mobility support	As sole applicant , funds for the realization of experimental work in a foreign institute, 2007, CHF 5'600

MEMBERSHIPS

Reviewer for: Evolutionary Applications Journal of Insect Science
Journal of Experimental Biology Animal Behaviour
Aquatic Ecology Environmental Microbiology

Societies: Member of the IBZ Rat
Member of the Society for the Study of Evolution

CAREER BREAKS

08/2014 – 07/2017 Maternity leave to take care of my two children.

PUBLICATIONS IN PEER-REVIEWED SCIENTIFIC JOURNALS

Günther, C.S., Goddard, M.R., Newcomb, R.D., **Buser, C.C.** (2015). The context of chemical communication driving a mutualism. *Journal of Chemical Ecology*, 41(10): 929–936. doi: 10.1007/s10886-0150629-z

Buser, C.C., Newcomb, R.D., Gaskett, A.C., Goddard, M.R. (2014). Niche construction initiates the evolution of mutualistic interactions. *Ecology Letters*, 17(10): 1257–1264. doi: 10.1111/ele.12331

Buser, C.C., Ward, P.I., Bussière, L.F. (2014). Adaptive maternal plasticity in response to perceptions of larval competition. *Functional Ecology*, 28(3): 669–681. doi: 10.1111/1365-2435.12188

Buser, C.C., Spaak, P., Wolinska, J. (2012). Disease and pollution alter *Daphnia* taxonomic and clonal structure in experimental assemblages. *Freshwater Biology*, 57(9): 1865–1874. doi: 10.1111/j.13652427.2012.02846.x

Buser, C.C., Jansen, M., Pauwels, K., De Meester, L. Spaak, P. (2012). Combined exposure to parasites and pesticides causes increased mortality in the water flea *Daphnia*. *Aquatic Ecology*, 46(26): 261–268. doi: 10.1007/s10452-012-9397-9

Demont, M., **Buser, C.C.**, Martin, O.Y., Bussière, L.F. (2011). Natural levels of polyandry: Differential sperm storage and temporal changes in sperm competition intensity in wild yellow dung flies. *Functional Ecology*, 25(5): 1079–1090. doi: 10.1111/j.1365-2435.2011.01861.x

Jansen, M., De Meester, L., Cielen, A., **Buser, C.C.**, Stocks, R. (2011). The interplay of past and current stress exposure on the water flea *Daphnia*. *Functional Ecology*, 25(5): 974–982 doi: 10.1111/j.1365-2435.2011.01869.x

INVITED PRESENTATION

06/2015 International Society for Chemical Ecology, Stockholm, Sweden: **Buser C.C.**, Goddard M.R. “Niche construction initiates the evolution of mutualistic interactions”

10/2010 Bloomington, USA: **Buser C.C.**, Wolinska J., Spaak P. “The influence of a pesticide on host-parasite interactions”

10/2008 Symposium on Sexual Selection, Sperm Competition & Cryptic Female Choice in Honour of Paul Ward, Zürich, Switzerland: **Buser C.C.**, Bussière L. I. “Do female yellow dung flies adjust oviposition and paternity according to perceived levels of larval competition?” (talk)

SELECTION OF ORAL CONFERENCE PRESENTATIONS

08/2013 ICEC2013, Melbourne, Australia: Buser C.C., Guenther, C. Gaskett A.C., Newcomb R.D., Goddard M.R. “Is chemical attraction causing yeasts and flies to coevolve?”

11/2012 ECOLSOC2012, Lincoln, New Zealand: **Buser C.C.**, Guenther, C. Gaskett A.C., Newcomb R.D., Goddard M.R. “DIY ecosystems: Resulting in mutualism of yeasts and flies?”

05/2012 Wine Science meeting, Waiheke, New Zealand: **Buser C.C.**, Gaskett A., Newcomb R., Goddard M. “Mutualism between yeast and fly”

03/2011 GEDIHAP- annual meeting, Zürich, Switzerland: **Buser C.C.**, Wolinska J., Spaak P. “Disease and pollution alter *Daphnia* community structure”

06/2010	ASLO Summer Meeting, Santa Fe, USA: Buser C.C. , Wolinska J., Jansen M., Spaak P. “The influence of a pesticide (Diazinon) on <i>Daphnia</i> -parasite interactions”
09/2009	Resurrection ecology, Hertzberg, Switzerland: Buser C.C. , Jansen M., Pauwels K., De Meester L., Spaak P. “Effect of two stress factor on host fitness”
04/2008	BEES, Zürich, Switzerland: Buser, C.C. “Do female dung flies adjust paternity according to the level of larval competition?”

SELECTION OF VISITED WORKSHOPS

04/2014	De novo Genomics workshop, Auckland, New Zealand
04/2014	16s Metagenomics workshop, Auckland, New Zealand
06/2013	Introduction to Genomics and Bioinformatics, Auckland, New Zealand
09/2009	Host-Parasite Coevolution Workshop, Frauenchiemsee, Germany

SKILLS

Languages	German First language English Fluent in spoken and written Spanish Fluent in spoken and written French Fluent in spoken and written
Presentations	Publishing and presenting results in international journals as well as at national and international conferences, acquire research grants
Software experience	MS-Office, Statistical analysis software (R, JMP, PLINK, SPSS, Statistica), graphing software (SigmaPlot), photo editing software (Photoshop), sequence alignment, assembly and analysis software (Geneious), genotyping software package (GeneMapper®), population genetics software packages (Genepop, FSTAT, SplitsTree) and modelling software (Mathematica)
Techniques	Molecular techniques (DNA and RNA extraction, PCR (touch down PCR, semi-quantitative PCR), genotyping, gel electrophoresis, microarrays); other relevant techniques (GC/MS, microdissection, microscopy and image analysis, laboratory culture of yeasts and different invertebrates, fieldwork)
Licences	Driving licences (car, motor bike, motor boat, sailing boat), cardiopulmonary resuscitation (BLS-AED-SRC), rescue swimming, diving (Paddy: open water, advanced, nitrox diving)