

## THOMAS FLATT

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### POSITIONS

- 2018-21: **DFG Mercator Fellow & Visiting Professor**, Institute for Evolution & Biodiversity, EvoPAD program, University of Münster, Germany
- 2018-date: **Full Professor of Evolutionary Biology**, Department of Biology, University of Fribourg, Switzerland
- 2017-18: **Associate Professor of Evolutionary Biology**, Department of Biology, University of Fribourg, Switzerland
- 2012-17: **SNSF Professor** (Swiss National Science Foundation Professorship), Department of Ecology and Evolution, University of Lausanne, Switzerland
- 2012-14: **Associated Faculty**, Vienna Graduate School of Population Genetics
- 2011-12: **Fellow**, Wissenschaftskolleg zu Berlin, Institute for Advanced Study Berlin (03-06/12)
- 2010-12: **Faculty Member**, Vienna Graduate School of Population Genetics
- 2009-12: **Group Leader** (with tenure), Institute of Population Genetics, Vetmeduni Vienna, Austria

### EDUCATION

- 2004-08: **Postdoctoral Research Fellow**, Brown University, Department of Ecology and Evolutionary Biology, Providence, RI, USA. Advisor: Prof. Marc Tatar.
- 2000-04: **PhD** (2004): University of Fribourg, Switzerland (Evolutionary Biology, Dr. rer. nat.). Advisor: Prof. Tadeusz J. Kawecki (now Lausanne).
- 1998-99: **MSc** (1999): University of Basel, Switzerland (Population Biology, Zoology); lab work at School of Biological Sciences, University of Sydney. Advisors: Prof. Stephen C. Stearns (Basel, now Yale) and Prof. Richard Shine (Sydney).
- 1994-98: **BSc** (1996): University of Basel, Switzerland (Integrative Biology, Major in Zoology, Specialization in Population Biology).

### HONORS, FELLOWSHIPS, AND ACADEMIC SERVICE

- 2021-24: Associate Editor, *Proceedings of the Royal Society of London B (Biological Sciences)*
- 2020-date: European Science Foundation (ESF) College of Expert Reviewers
- 2020-22: Associate Editor, *Evolution* (2<sup>nd</sup> term)
- 2019-21: Vice Head of Department, Department of Biology, University of Fribourg

- 2019-21: Head of Fribourg Graduate School of Life Sciences (FGLS)
- 2018-21: DFG Mercator Fellowship & Visiting Professorship, EvoPAD Program, Institute for Evolution & Biodiversity, University of Münster, Germany
- 2018-date: Head of CUSO (Conférence universitaire de Suisse occidentale) Inter-University Doctoral Program in Ecology & Evolution (DPEE) for 5 Swiss universities (Bern, Fribourg, Geneva, Lausanne & Neuchâtel)
- 2018-date: Member of Standing Board of Assessors, Swiss Study Foundation
- 2016-18: Associate Editor, *Evolution* (1<sup>st</sup> term)
- 2016-20: Associate Editor, *Ecology and Evolution*
- 2016-date: Reviewing Board Member, *Peer Community in Evolutionary Biology*
- 2016-18: Member of Steering Committee, DFG Research Unit *Sociality and the reversal of the fecundity-longevity trade-off*
- 2016-21: Section Editor, *BMC Zoology* (Editor-in-Chief of life history section)
- 2015-date: Member of Scientific Advisory Board, Groningen Institute for Evolutionary Life Sciences (GELIFES), University of Groningen
- 2014-14: Reviewing Editor, *Frontiers in Endocrinology of Aging*
- 2013-date: Co-founder and co-leader of the European *Drosophila* Population Genomics Consortium (*DrosEU*), with Josefa González and Martin Kapun
- 2012-17: Swiss National Science Foundation (SNSF) Professorship *ad personam*
- 2011-12: Fellow, Wissenschaftskolleg zu Berlin (Institute for Advanced Study, Berlin)
- 2011-date: Contributing Member, *Faculty of 1000*, Developmental Biology Faculty, Aging Section
- 2011-14: Academic Editor, *PLoS ONE*
- 2011-14: Associate Editor, *Frontiers in Genetics of Aging*
- 2011-14: Editor, *Frontiers in Experimental Endocrinology*
- 2010-16: Deciding Editor, *Journal of Evolutionary Biology*
- 2010-date: Member, National Scientific Advisory Council, American Federation for Aging Research
- 2009-10: Reviewing Editor, *Journal of Evolutionary Biology* (promoted to Deciding Editor in 2010)
- 2006-08: Advanced Postdoctoral Fellow, SNSF
- 2005-06: Postdoctoral Fellow, Roche Research Foundation
- 2004-05: Postdoctoral Fellow, Swiss National Science Foundation (SNSF)
- 2003-04: Doctoral Fellow, Roche Research Foundation
- 1998-99: Fellow, Dr. Max Husmann Foundation
- 1998-99: Fellow, Roche Research Foundation
- 1994-04: Long-Term Fellow, Schweizerische Studienstiftung (Swiss Study Foundation)

## RESEARCH INTERESTS

Adaptation genomics; molecular population genetics; genetics of fitness components; life-history evolution; clines; spatially varying selection; climate adaptation; chromosomal inversion polymorphisms; evolution and mechanisms of aging and longevity; experimental evolution.

## PUBLICATIONS

- Total: 92 publications [81 articles, 10 book chapters, 1 edited book]
- *h*-index: 39 (6176 citations; <http://scholar.google.ch/citations?user=hnOIPdEAAAAAJ&hl=en>)
- among top 100,000 most-cited scientists (~top 1%) across 26 fields (Ioannidis *et al* 2019 & 2020, *PLoS Biol.*)
- Expertscape «World Expert in Longevity»; top 0.1% of scholars working on longevity based on PubMed

## In progress

- [98] Rodrigues, M.A., Paris, M., Durmaz, E., Kerdaffrec, E., and **T. Flatt**. 2021. Transcriptomic Evidence for a Trade-off between Germ-line Proliferation and Immunity in *Drosophila*. In preparation.
- [97] Kapun, M., Durmaz, E., Kawecki, T.J., Schmidt, P., and **T. Flatt**. 2021. An Ancestrally Tropical Balanced Inversion Polymorphism Confers Global Adaptation to Warm Climate. In preparation.
- [96] Charlesworth, B., and **T. Flatt**. 2021. On the Fixation or Non-Fixation of Adaptive Inversions. *Molecular Ecology*, *in review*. Preprint: <https://doi.org/10.22541/au.161474567.72404976/v1>
- [95] Machado, H.E., Bergland, A.O., Taylor, R., Tilk, S., Behrman, E., Dyer, K., Fabian, D.K., **Flatt, T.**, González, J., Karasov, T.L., Kim, B., Kozeretska, I., Lazzaro, B. P., Merritt, T.J.S., Pool, J.E., O'Brien, K.O., Rajpurohit, S., Roy, P.R., Schaeffer, S.W., Serga, S., Schmidt, P., and D. Petrov. 2021. Broad geographic sampling reveals predictable, pervasive and strong seasonal adaptation in *Drosophila*. *eLife*, *in revision*. Preprint: <https://doi.org/10.1101/337543>
- [94] Kapun, M.\*, Nunez, J.C.B., Bogaerts-Márquez, M., Murga-Moreno, J., Paris, M., Outten, J., Coronado-Zamora, M., Tern, C., Rota-Stabelli, O., García Guerreiro, M.P., Casillas, S., Orengo, D.J., Puerma, E., Kankare, M., Ometto, L., Loeschcke, V., Onder, B.S., Abbott, J.K., Schaeffer, S.W., Rajpurohit, S., Behrman, E.L., Schou, M.F., Merritt, T.J.S., Lazzaro, B.P., Glaser-Schmitt, A., Argyridou, E., Staubach, F., Wang, Y., Tauber, E., Serga, S.V., Fabian, D.K., Dyer, K.A., Wheat, C.W., Parsch, J., Grath, S., Savic Veselinovic, M., Stamenkovic-Radak, M., Jelic, M., Buendía-Ruíz, A.J., Gómez-Julián, J., Espinosa-Jimenez, L., Gallardo-Jiménez, F.D., Patenkovic, A., Eric, K., Tanaskovic, M., Ullastres, A., Guio, L., Merenciano, M., Guirao-Rico, S., Horváth, V., Obbard, D.J., Pasyukova, E., Alatorsev, V.E., Vieira, C.P., Vieira, J., Torres, J.R., Kozeretska, I., Maistrenko, O.M., Montchamp-Moreau, C., Mukha, D.V. Barbadilla, A., Petrov, D.\*, Schmidt, P.\*, Gonzalez, J.\*, **Flatt, T.\***, and A.O. Bergland\*. 2021. *Drosophila* Evolution over Space and Time (DEST) – A New Population Genomics Resource. [\*co-corresponding authors]. *Molecular Biology and Evolution*, *in revision*. Preprint: <https://doi.org/10.1101/2021.02.01.428994>
- [93] Harrison, M.C., Jaimes, L.M., Rodrigues, Marisa, **Flatt, T.**, Oettler, J., and E. Bornberg-Bauer. 2021. Gene co-expression network reveals highly conserved, well-regulated anti-ageing mechanisms in old ant queens. *Genome Biology and Evolution*, *in revision*. Preprint: <https://doi.org/10.1101/2021.02.14.431190>

## Published

- [92] Promislow, D.E.L.\*, **Flatt, T.\***, and R. Bonduriansky\*. 2022. The Biology of Aging in Insects: From *Drosophila* to Other Insects and Back. [\*equal contribution; co-corresponding authors]. **Annual Review of Entomology** (planned for Volume 67, 2022), in press.
- [91] Betancourt, N., Rajpurohit, S., Durmaz, E., Fabian, D.K., Kapun, M., **Flatt, T.\***, and P. Schmidt\*. 2021. Allelic polymorphism at *foxo* contributes to local adaptation in *Drosophila melanogaster* [\*co-corresponding authors]. **Molecular Ecology**, in press. <https://doi.org/10.1101/471565>

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- [88] Pen, I., and **T. Flatt**. 2021. Asymmetry, Division of Labour and the Evolution of Ageing in Multicellular Organisms. **Philosophical Transactions of the Royal Society of London B** 376 (1823): 20190729. <https://doi.org/10.1098/rstb.2019.0729> [Also see coverage in *Science*, 25 March, 2021, <https://doi.org/10.1126/science.371.6536.1302>].
- [87] Durmaz, E., Kerdaffrec, E., Katsianis, G., Kapun, M.\*, and **T. Flatt\***. 2020. How Selection Acts on Chromosomal Inversions. [\*co-corresponding authors]. **eLS (Encyclopedia of Life Sciences)** 1:307-315 2020. <https://doi.org/10.1002/9780470015902.a0028745>
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- [74] Durmaz, E., Benson, C., Kapun, M., Schmidt, P., and **T. Flatt**. 2018. An Inversion Supergene in *Drosophila* Underpins Latitudinal Clines in Survival Traits. **Journal of Evolutionary Biology** 31: 1354-1364. <https://doi.org/10.1111/jeb.13310>
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- [68] Garschall, K., Dellago, H., Gálíková, M., Schosserer, M.,\* **Flatt, T.,\*** and J. Grillari. 2017. Ubiquitous overexpression of the DNA repair factor dPrp19 reduces DNA damage and extends *Drosophila* life span. **npj Aging and Mechanisms of Disease** 3:5. [\*co-corresponding authors] <https://doi.org/10.1038/s41514-017-0005-z>

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- [51] Hansen, M.,\* **Flatt, T.**\*, and H. Aguilaniu\*. 2013. Reproduction, Fat Metabolism, and Life Span: What Is the Connection? **Cell Metabolism** 17:10-19. [\*Equal contribution, co-corresponding authors]. <https://doi.org/10.1016/j.cmet.2012.12.003>
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#### POST-PUBLICATION REVIEWS & RECOMMENDATIONS

F1000: <https://f1000.com/prime/thefaculty/member/5574371812549168>

**Flatt, T.**, and L. Keller. 2017. Supergene Control of a Reproductive Polymorphism. **Peer Community in Evolutionary Biology**, doi: 10.24072/pci.evolbiol.100003

Blanckenhorn, W., and **T. Flatt T.** 2017. Megacicadas show a temperature-mediated converse Bergmann cline in body size (larger in the warmer south) but no body size difference between 13- and 17-year species pairs. **Peer Community in Evolutionary Biology**, doi:

10.24072/pci.evolbiol.100014

#### GRANTS

Total grant income since becoming PI in 2009: CHF 4,281,696 = USD 4,343,340 = 3,848,910 €.

#### CURRENT GRANTS

2018-22: SNSF Research Project # 31003A-182262: *The Role of Chromosomal Inversion Polymorphisms in Clinal Adaptation*. Duration: 2018-2022. CHF 789,766. (Earmarked by the National Research Council for potential renewal as a SNSF "Excellence Grant".)

2018-21: DFG (German Research Foundation) Mercator Fellowship to support Visiting Professorship at the RTG EvoPAD Program, Institute for Evolution & Biodiversity, University of Münster, Germany.

2016-22: ESEB STN (European Society of Evolutionary Biology Special Topics Network) to support the consolidation of the *European Drosophila Population Genomics Network (DrosEU)*. Co-applicant on behalf of *DrosEU* with Andrea Betancourt, Josefa González, Mike Ritchie, and Bas Zwaan. Duration 2016-2022. € 60,000 (not included in grant income above).

#### COMPLETED GRANTS AND FELLOWSHIPS

##### As PI (since 2009):

- 2019-20: Novartis Foundation for Biomedical Research Grant, *Why does reproduction impair immune function? Transcriptional correlates of the trade-off between reproduction and immunity*. Grant # 19B149. CHF 29,774.00.
- 2016-19: SNSF Professorship, grant extension. Project #PP00P3\_165836: *The Genomic Basis of Life History Adaptation*. CHF 743,515. Duration: December 2016 - November 2018, plus cost-neutral extension until May 2019.
- 2015-19: SNSF Research Project # 310030E-164207: *The Physiological and Metabolic Basis of the Fecundity/Longevity trade-off in Drosophila*. Duration: 2015-2019. CHF 242,168, plus cost-neutral extension until June 2019. SNSF-funded project within DFG (Deutsche Forschungsgemeinschaft) Collaborative Research Unit (Forschergruppe FOR 2281) grant, entitled *Sociality and the reversal of the fecundity-longevity trade-off* (total project funding 6.2 million Euros).
- 2016-18: Supplementary funding for SNSF Professorship Project # PP00P3\_133641/1: *Population Genomics of Evolutionary Change in Drosophila Aging and Life History*. CHF 58,046.
- 2012-16: SNSF Professorship ("SNF Förderungsprofessur") at Department of Ecology and Evolution, University of Lausanne, Switzerland, endowed by the Swiss National Science Foundation (SNSF). Project # PP00P3\_133641/1: *Population Genomics of Evolutionary Change in Drosophila Aging and Life History*, Awarded in February 2011 but deferred until December 2012. Duration: December 2012 -November 2016. CHF 1,582,700.
- 2014-15: Novartis Foundation for Biomedical Research Grant, *The Mechanistic Basis of Lifespan Modulation by Reproduction and Diet*, Grant # 13C154. Duration: 12 months (2014-2015, awarded in 2013). CHF 60,000.
- 2012: Awarded for 2012: Stipend, Institute for Advanced Study Berlin (Wissenschaftskolleg zu Berlin), 03-06/2012, €4500.
- 2009-14: FWF (Austrian Science Foundation) Program Grant to build up the *Vienna Graduate School of Population Genetics*, Grant # W 1225. Co-applicant with Christian Schlötterer (coordinator), Reinhard Bürger, Andreas Futschik, Arndt von Haeseler, Joachim Hermisson, Alistair McGregor, Claus Vogl, Carolin Kosiol, Ines Hellmann, Magnus Nordborg. €2,400,000. 2009-2014 (my share: approx. €154,200)
- 2009-12: University of Veterinary Medicine Vienna, "Profillinien" Grant, Auxiliary Funding for FWF Project # P 21498-B11. €68.649. 2009-2012.
- 2009-12: FWF (Austrian Science Foundation) Stand Alone Grant, *Germline Regulation of Drosophila Aging Through Steroid Hormone Signaling*, Grant # P 21498-B11. Duration: 2009-2012. €457,663.5.

##### As postdoc:

- 2008: Advanced Postdoctoral Fellowship, Swiss National Science Foundation (SNSF): *Germline Regulation of Aging in Drosophila melanogaster* (grant PA00A-113087/2; CHF 21,850; 6 months)

- 2006: Advanced Postdoctoral Fellowship, Swiss National Science Foundation (SNSF): *Germline Regulation of Aging in Drosophila melanogaster* (grant PA00A-113087; CHF 95,415; 24 months)
- 2006: Postdoctoral Research Funding, National Institute of Health (NIH RO1 grant to M. Tatar)
- 2005: Postdoctoral Fellowship, Roche Research Foundation: *Regulation of Lifespan by Germline Signals in Drosophila melanogaster* (grant 318-2004; CHF 36,000; 12 months)
- 2004: Postdoctoral Fellowship, Swiss National Science Foundation (SNSF): *The Effects of Germline Stem Cells on Aging and Reproduction in Drosophila melanogaster* (grant PBFRA 104328; CHF 29,700; 12 months)

*As predoc:*

- 2003: Extension of Predoctoral Fellowship, Roche Research Foundation: *The Effects of Juvenile Hormone on Trait Architecture in Drosophila melanogaster* (grant 219-2003; CHF 5,570; 2 months, with T.J. Kawecki)
- 2002: Predoctoral Fellowship, Roche Research Foundation: *The Effects of Juvenile Hormone on Trait Architecture in Drosophila melanogaster* (grant 159-2002; CHF 27,500; 10 months, with T.J. Kawecki)
- 2000: Predoctoral Fellowship, Swiss National Science Foundation (grant to T.J. Kawecki; 36 months)
- 1998: Fellowship, Dr. Max Husmann Foundation (CHF 8,500)
- 1998: Fellowship, Roche Research Foundation: *Nongenetic Maternal Effects and Phenotypic Plasticity in Hatchling Phenotypes of a Montane Scincid Lizard* (CHF 10,000; 6 months)
- 1998: Scholarship, University of Basel (CHF 2,200)
- 1998: Scholarship, Swiss Study Foundation (CHF 7,000; 17 months)
- 1998: Research Grant, Emilia Guggenheim-Schnurr Foundation: *Effects of Ant Tending on Aphid Life History* (CHF 3,000)
- 1994: Long-Term Fellowship, Swiss Study Foundation - Funds for Young Talented People (until 2004)

*SMALLER AWARDS, GRANTS AND FELLOWSHIPS*

- 2020-21: Grant from the European Society of Evolutionary Biology (ESEB) to organize a Progress Meeting in Evolutionary Biology (15,000 Euro), co-applicant with Emma Berdan and Kerstin Johannesson
- 2019: Grant from the Fonds de recherche du centenaire de l'Université de Fribourg for organizing a conference (3500 CHF)
- 2018: Grant from the Fonds de recherche du centenaire de l'Université de Fribourg for organizing a conference (2000 CHF)
- 2017: Grant from SISF (Swiss Industry Science Fund) (Novartis, Roche) for organizing a conference (5000 CHF)
- 2017: Grant from SKMB (Swiss Committee for Molecular Biology) for organizing a conference (2000 CHF)
- 2014: Grant from KGF Foundation (Kontaktgruppe für Forschungsfragen; BASF, Novartis, Roche, Syngenta) for organizing a conference (CHF 5400)
- 2014: Grant from SKMB (Swiss Committee for Molecular Biology) for organizing a conference (CHF 5400)
- 2014: UNIL Travel Grant for Horizon 2020 grant proposal preparation
- 2010: Travel Grant for EU FP7 proposal preparation, Austrian Research Promotion Agency (FFG/EIP)

- 2009: Relocation Grant, Brain Power Austria, Austrian Research Promotion Agency (FFG)
- 2008: Grants from the Associate Dean's Office of the Division of Biology & Medicine, Brown University and from Fisher Scientific for organizing a conference (\$3800)
- 2008: Funds for organizing a conference and travel award, Society for the Study of Evolution (SSE)
- 2007: Hot Poster Award, Gordon Research Conference, Biology of Aging, Les Diablerets, Switzerland
- 2007: Interview/Travel Grant, Brain Power Austria, Austrian Research Promotion Agency (FFG)
- 2007: Travel Award, Gordon Research Conference, Biology of Aging, Les Diablerets, Switzerland
- 2006: Travel Award, Gordon Research Conference, Biology of Aging, Ventura, CA, USA
- 2005: Travel Award, Gordon Research Conference, Biology of Aging, Aussois, France
- 2004: 3<sup>rd</sup> Poster Award, Biology 04 Meeting, Fribourg, Switzerland
- 2003: Grant from KGF Foundation (Ciba Specialty Chemicals, Novartis, Roche, Merck Serono, Syngenta) for organizing a conference (10,000 CHF)
- 2003: Travel Grant, Swiss Study Foundation
- 2002: Student Travel Bursary, The Academy of Medical Sciences, London, UK
- 2000: Travel Grant, University of Basel, Switzerland
- 2000: Travel Award, American Society of Naturalists
- 1999: Travel Grant, Swiss Study Foundation
- 1999: Travel Grant, British Ecological Society
- 1997: Scholarship, Tropical Biology Association, Cambridge, UK
- 1997: Travel Grant, Swiss Study Foundation

### **INVITED SYMPOSIA AND PLENARY TALKS**

[60 invited symposia and plenary talks]

- 2021: 9<sup>th</sup> University of Fribourg Research Day in Medicine 2021 - Collaboration Perspectives for Bio-Medical Research in Fribourg
- 2020: Invited Speaker, Gutenberg Workshop on Aging in Social Insects, Wasem Kloster Ingelheim, organized by Johannes Gutenberg University Mainz, Germany (postponed because of COVID-19)
- 2020: Keynote Speaker, International Congress of Entomology (ICE 2020), Symposium on "Physiological and molecular determinants shaping plasticity in insect reproduction and longevity", Helsinki, Finland (postponed because of COVID-19)
- 2020: Invited Speaker, 2<sup>nd</sup> Münster Evolution Meeting (MEM), University of Münster, Germany (cancelled because of COVID-19)
- 2020: 9<sup>th</sup> University of Fribourg Research Day in Medicine 2020 - Collaboration Perspectives for Bio-Medical Research in Fribourg (postponed because of COVID-19)
- 2019: Invited Speaker, ISEB2: 2<sup>nd</sup> Indo-Swiss Meeting on Evolutionary Biology, organized by the Indian Society of Evolutionary Biologists & Evolutionary & Organismal Biology Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, held at the Centre for Human Genetics, Bangalore, India (video link: <https://www.facebook.com/100008793967183/videos/2214191058884005/>)
- 2019: Invited Speaker, 33<sup>rd</sup> Annual French *Drosophila* Conference, École Normale Supérieure de Lyon, Lyon, France
- 2019: Invited Speaker, 6<sup>th</sup> Congress of the Serbian Genetic Society, Vrnjačka Banja, Serbia

- 2019: Opening Keynote Speaker, Spring Meeting of the DFG Collaborative Research Unit "Seasonal temperature acclimation in *Drosophila*", Biotechnology Center of the Technical University Dresden, Germany
- 2019: Invited Speaker, Experimental Evolution Workshop, EvoPAD and Münster Graduate School of Evolution (MGSE), Institute for Evolution and Biodiversity, University of Münster, Münster, Germany
- 2018: Invited Speaker, 10-year Anniversary Symposium of PopGen Vienna, Institute of Population Genetics, Vetmeduni Vienna, Austria
- 2018: Invited Speaker, 7<sup>th</sup> Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, Trento, Italy
- 2018: Invited Speaker, 23<sup>rd</sup> DZG (German Zoological Society) Graduate Meeting in Evolutionary Biology on Life-History Evolution, University of Freiburg, Institute for Biology I, Freiburg, Germany
- 2018: International ITU Molecular Biology and Genetics Student Congress'18, Istanbul, Turkey (Declined due to overcommitment)
- 2018: Plenary Speaker, International Union for the Study of Social Insects (IUSSI) 2018, Guarujá, Brazil (Declined due to overcommitment)
- 2018: Plenary Speaker, Symposium on "Genomic Basis of Climate Adaptation", Senckenberg Biodiversity and Climate Research Centre, Senckenberg Museum of Natural History, Frankfurt am Main, Germany
- 2017: Invited Speaker, 16<sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Symposium on "Evolutionary Biology of Ageing: Integrating Function and Mechanism", Groningen, Netherlands
- 2016: Lead Speaker, The Rank Prize Funds Symposium on Nutrition and Ageing, Grasmere, UK (Cancelled due to scheduling conflict; replaced by my student Kathrin Garschall)
- 2016: German Society for Genetics (GfG) Summer Academy "Adaptation in nature - from ecology to genomes", Technical University Braunschweig, Braunschweig, Germany
- 2016: International Cofactor Life Sciences (ICLS) Conference on Neuroscience and Aging, Istanbul, Turkey (Declined due to overcommitment)
- 2016: Plenary Speaker, "The Evolution of Mechanisms: A Workshop on the Integration of Life-History Evolution and Physiology", University of Debrecen, Debrecen, Hungary
- 2016: Plenary Speaker, 12<sup>th</sup> Women's Health Congress, University Hospital Basel, Basel, Switzerland
- 2015: Keynote Speaker, Inauguration Symposium for the new Groningen Centre for Evolutionary Sciences (GELIFES) and "Adaptive Life" research plan, University of Groningen, Netherlands
- 2015: Featured Speaker, 2<sup>nd</sup> Insect Hormone (20<sup>th</sup> International Ecdysone) Workshop, Kolymbari, Crete, Greece (Declined due to overcommitment)
- 2014: Symposium Speaker, Annual Meeting of the German Zoological Society (Deutsche Zoologische Gesellschaft, DZG), Evolutionary Biology Section, University of Göttingen, Göttingen, Germany
- 2014: 2<sup>nd</sup> Eco-Evo-Devo Postgraduate Summer School (organized by Alistair McGregor and Casper Breuker), Oxford Brookes University, Oxford, UK
- 2014: Hauptstadtkongress Medizin und Gesundheit, Deutsches Ärzteforum, "Am Puls der Zeit: Regeneration und Verlangsamung des Alterungsprozesses in der Welt von Übermorgen", Citycube, Berlin, Germany
- 2014: Symposium on Pathways to Indefinite Lifespans, University of Nicosia, Cyprus (Declined due to overcommitment)



- 2014: Annual Retreat of the PhD Students of the Instituto Gulbenkian de Ciência (IGC), Oeiras, Portugal
- 2013: Menopause, Andropause and Anti-Aging Congress 2013, Hilton Vienna, Vienna, Austria (Declined)
- 2013: Invited Speaker, Symposium on "Genomics of Experimental Evolution", 14<sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Lisbon, Portugal (youtube video link: [https://www.youtube.com/watch?v=c\\_EozrMwVIs](https://www.youtube.com/watch?v=c_EozrMwVIs))
- 2013: Plenary Speaker, Opening Lecture, "The Evolution of Proximate Mechanisms for Behavioural and Life History Decisions", Summer Course of the Doctoral Program in Ecology and Evolution, Conférence Universitaire de Suisse Occidentale (CUSO), Arolla, Switzerland
- 2013: Featured Speaker, 2013 1<sup>st</sup> Insect Hormone Workshop (19<sup>th</sup> International Ecdysone Workshop), Minneapolis, USA
- 2013: Plenary Speaker, "Nutrition and Healthy Ageing", Nutrition Society Summer Meeting 2013, Newcastle, UK (published as Flatt 2014 in *Proc. Nutr. Soc.*)
- 2013: Introductory Lecture, Swiss *Drosophila* Meeting 2013, ETH Zürich, Zürich, Switzerland
- 2013: FBM (Faculty of Biology and Medicine) Research Day at University of Lausanne: "Strong winds for discoveries", invited by the FBM Research Commission, Lausanne, Switzerland
- 2013: Royal Society Workshop on Nutrition and Ageing, Kavli Royal Society International Centre, Chicheley Hall, Buckinghamshire, UK
- 2013: Distinguished Guest Speaker, Colloquium (part 2) "Bridging the Gap Between Genomics and Evolutionary Biology", Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biology, University of Oslo, held at the Norwegian Academy of Science and Letters, Oslo, Norway
- 2013: 2013 Ecdysone Workshop, 54<sup>th</sup> Annual *Drosophila* Research Conference, Washington, DC, USA
- 2012: 4<sup>th</sup> EvolVienna Meeting, Vetmeduni Vienna, Department of Integrative Biology and Evolution, Wilhelminenberg, Vienna, Austria
- 2012: Plenary Speaker, Opening Lecture, 18<sup>th</sup> European Meeting of PhD Students in Evolutionary Biology, Virrat, Finland
- 2012: Symposium on Egg Development, "How do you like your eggs?", 4<sup>th</sup> Meeting of the European Society for Evolutionary Developmental Biology (EED), Lisbon, Portugal
- 2012: Symposium on "Physiological Mechanisms that Shape Life Histories", ESEB (European Society of Evolutionary Biology) sponsored symposium, Evolution 2012 Ottawa: 1<sup>st</sup> Joint Congress on Evolutionary Biology (SSE, ASN, ESEB, CSEE, SSB), Ottawa, Canada
- 2012: XXIV International Congress of Entomology (ICE2012), Daegu, South Korea (Declined)
- 2011: Winter School on Plasticity: Mechanisms and Evolution, Institute of Theoretical Biology, Humboldt University Berlin, Germany
- 2011: Plenary Speaker, Genes and Ageing, 4<sup>th</sup> Young Investigator Workshop, LifeSpan EU Network of Excellence, Paris, France
- 2011: International Conference on Aging, Korean Society for Gerontology, Busan, Korea (Declined)
- 2010: Distinguished Guest Speaker, Colloquium (part 1) "Bridging the Gap Between Genomics and Evolutionary Biology", Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biology, University of Oslo, held at the Norwegian Academy of Science and Letters, Oslo, Norway
- 2010: Keynote Lecturer, FP7-ERA-AGE 2 (European Research Area in Ageing), Future Leaders of Ageing Research in Europe (FLARE), Summer School, September 2010, Varna, Bulgaria

- 2010: Young Group Leader Presentation, Molecular and Applied Biosciences Austria 2010, Austrian Association of Molecular Life Sciences and Biotechnology (ÖGMBT), Vienna, Austria
- 2010: 10<sup>th</sup> International Symposium on Neurobiology and Neuroendocrinology of Aging, Bregenz, Austria
- 2010: 18<sup>th</sup> International Ecdysone Workshop, České Budějovice, Czech Republic
- 2008: Social Insect Life History Symposium 23<sup>rd</sup> International Entomology Congress, Durban, South Africa
- 2007: Gordon Research Conference on Aging, Poster Award Talk, Les Diablerets, Switzerland
- 2006: Symposium on Metamorphosis, Society for Integrative & Comparative Biology Meeting, Orlando, FL, USA
- 2005: Symposium on Biology of Aging, Institute of Biology & Leiden University Medical Center, Leiden, Netherlands
- 2005: Symposium on Biology of Aging, 10<sup>th</sup> Congress, European Society of Evolutionary Biology, Krakow, Poland
- 2003: 10<sup>th</sup> Swiss Herpetological Colloquium, University of Fribourg, Switzerland
- 2001: Symposium on Evolutionary and Ecological Genomics, 8<sup>th</sup> Congress, European Society of Evolutionary Biology, Aarhus, Denmark (co-author on a talk)
- 1996: German Society for Herpetology (DGHT) Meeting, Goldau, Switzerland
- 1994: 1<sup>st</sup> Swiss Herpetological Colloquium, Natural History Museum Bern, Bern, Switzerland

### **INVITED SEMINARS AND TALKS**

[103 invited seminars and talks]

- 2020: Online Seminar Series in Evolution and Ecology, organized by the Maklakov, Immler and Mank Labs; School of Biological Sciences, University of East Anglia, Norwich, UK; and Department of Zoology & Biodiversity Research Centre, University of British Columbia, Vancouver, Canada ([https://www.youtube.com/watch?v=RIGg\\_dUsHRk](https://www.youtube.com/watch?v=RIGg_dUsHRk))
- 2020: Department of Biological and Medical Sciences, Oxford Brookes University, Oxford, UK (cancelled because of COVID-19)
- 2020: University of Bern, Institute of Ecology and Evolution, Lecture Series in Evolutionary Ecology and Behavioural Ecology, Bern, Switzerland
- 2020: University of Regensburg, Seminar Series "Current Topics in Zoology and Botany", Faculty of Biology and Preclinical Medicine, Institute of Zoology, Regensburg, Germany
- 2019: Ahmedabad University, School of Arts and Sciences - Biological and Life Sciences, Ahmedabad, Gujarat, India (Declined due to overcommitment)
- 2019: Laboratoire Evolution, Génomes, Comportement, Ecologie (EGCE), CNRS and Université Paris-Sud UMR 9191, IRD UMR 247, Gif-sur-Yvette, France
- 2019: Institute for Evolution and Biodiversity, Departmental Seminar ('Frontiers in Ecology and Evolution'), University of Münster, Münster, Germany
- 2018: University of Lyon (Claude Bernard Lyon 1), Laboratoire Biométrie et Biologie Evolutive, UMR 5558 CNRS, Lyon, France
- 2018: Department of Genetics, University of Cambridge, Cambridge, UK
- 2018: Institute for Evolution and Biodiversity, Departmental Seminar ('Frontiers in Ecology and Evolution'), University of Münster, Münster, Germany

- 2018: Münster Graduate School of Evolution (MGSE) lecture series "Evolution across fields", Institute for Evolution and Biodiversity, University of Münster, Münster, Germany
- 2018: Institute of Evolutionary Biology, University of Edinburgh, Edinburgh, UK
- 2017: Department of Evolutionary Biology and Environmental Studies, University of Zürich, Switzerland
- 2017: Sars International Centre for Marine Molecular Biology, University of Bergen, Bergen, Norway (Declined due to overcommitment)
- 2017: Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany
- 2017: Institute of Biology, University of Neuchâtel, Neuchâtel, Switzerland
- 2017: Institute of Population Genetics, Vetmeduni Vienna, Vienna, Austria
- 2016: Department of Zoology, Stockholm University, Stockholm, Sweden
- 2016: Center for Integrative Genomics (CIG), University of Lausanne, Switzerland
- 2016: Department of Biological and Medical Sciences, Oxford Brookes University, Oxford, UK
- 2016: Centre for Ecology and Conservation, Biosciences, College of Life and Environmental Sciences University of Exeter, Penryn Campus, UK
- 2016: Department of Biology, University of Fribourg, Fribourg, Switzerland
- 2016: EAWAG, Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland
- 2016: Institute of Biology, University of Neuchâtel, Neuchâtel, Switzerland
- 2016: Naturforschende Gesellschaft des Kantons Solothurn (Natural History Society of the Canton Solothurn), Natural History Museum, Solothurn, Switzerland
- 2015: School of Biology, Centre for Biological Diversity, University of St. Andrews, St. Andrews, Fife, UK
- 2015: Evo-Devo Workshop (organized by Daniela Nunes and Alistair McGregor), Barrow upon Trent, Derbyshire, UK
- 2015: Max Planck Institute for Demographic Research (MPIDR), "Meet the Expert Series" Seminar Series, MaxNetAging Doctoral School (MNARS), Rostock, Germany
- 2015: Institute for Evolution and Biodiversity, University of Münster, Münster, Germany
- 2015: Instituto Gulbenkian de Ciência (IGC), Oeiras, Portugal
- 2015: University of Freiburg, Institute of Biology, Assessment Meeting for DFG Research Unit FOR 2281, Freiburg, Germany
- 2015: Faculty of Biology, Ludwig Maximilians University Munich, Munich, Germany
- 2015: Institute of Integrative Biology, University of Liverpool, Liverpool, UK
- 2014: Department of Zoology, Stockholm University, Stockholm, Sweden
- 2014: Institute of Biology, University of Neuchâtel, Neuchâtel, Switzerland
- 2014: Institute of Ecology and Evolution, Mini Symposium in Evolutionary Biology, University of Bern, Switzerland
- 2014: Wageningen Evolution and Ecology Seminars (WEES), Wageningen University, Wageningen, Netherlands
- 2014: Department of Genetics, University of Georgia, Athens, GA, USA
- 2013: Institute of Biology, University of Neuchâtel, Neuchâtel, Switzerland
- 2013: Institute of Ecology and Evolution, Population Genetics Seminar, University of Bern, Switzerland
- 2013: Ecole Normale Supérieure de Lyon, Department of Biology, Lyon, France

- 2013: Kawecki Lab Meeting, Department of Ecology and Evolution, University of Lausanne, Lausanne, Switzerland
- 2013: Jensen Lab Meeting, Institute of Bioengineering, School of Life Sciences, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland
- 2012: 8<sup>th</sup> Lausanne Fly Meeting, University of Lausanne, Center of Integrative Genomics, Lausanne, Switzerland
- 2012: Department of Biosciences, Ecology and Evolutionary Biology, University of Helsinki, Helsinki, Finland
- 2012: Department of Chromosome Biology, Max F. Perutz Laboratories, University of Vienna, Vienna, Austria
- 2012: University College London, Institute of Healthy Ageing, Department of Genetics, Evolution & Environment, London, UK
- 2012: University of Jyväskylä, Department of Biological and Environmental Sciences, Jyväskylä, Finland
- 2012: Department of Biology, Lund University, Lund, Sweden
- 2012: Wissenschaftskolleg zu Berlin, Institute for Advanced Study, Berlin, Germany
- 2012: Freie Universität Berlin, Department of Animal Behavior, Berlin, Germany
- 2011: Konrad Lorenz Institute for Evolution and Cognition Research (KLI), Altenberg, Austria
- 2011: Universidad de Guanajuato, Departamento de Biología, División de Ciencias Naturales y Exactas, Guanajuato, Mexico (Declined)
- 2011: Ecole Normale Supérieure de Lyon, Laboratoire de Biologie Moléculaire de la Cellule, Lyon, France
- 2011: Swiss National Science Foundation, Research Council, Bern, Switzerland
- 2010: Université Paris 7 / CNRS, Laboratoire de Génétique du Stress et du Vieillessement, Paris, France
- 2010: Research Institute of Wildlife Ecology, Vetmeduni Vienna, Wilhelminenberg, Vienna, Austria
- 2010: Austrian Academy of Sciences, Institute for Biomedical Aging Research, Innsbruck, Austria
- 2010: University of Natural Resources & Applied Life Sciences (BOKU), Vienna Institute of BioTechnology, Institute of Applied Microbiology, Vienna, Austria
- 2010: University of Vienna, COSB (Centre of Organismal Systems Biology), Faculty of Life Sciences, Austria
- 2010: Swiss National Science Foundation, Research Council, Bern, Switzerland
- 2009: University of Lausanne, Vice Rectorate, Lausanne, Switzerland
- 2009: Université Paris 7 / CNRS, Laboratoire de Génétique du Stress et du Vieillessement, Paris, France
- 2009: Austrian Science Foundation, Evaluation Hearing for Ph.D. Program in Population Genetics, Vienna, Austria
- 2009: University of Basel, Zoological Institute, Evolutionary Biology Group, Basel, Switzerland
- 2009: Université Nice-Sophia Antipolis, CNRS UMR6543, Institute of Developmental Biology & Cancer, Nice, France
- 2009: Czech Academy of Sciences, Institute of Entomology, Biological Centre, České Budějovice, Czech Republic
- 2009: University of Natural Resources & Applied Life Sciences (BOKU), Department of Biotechnology, Vienna, Austria

- 2009: University College London, Institute of Healthy Ageing, Department of Genetics, Evolution & Environment, London, UK
- 2009: Queen Mary University of London, School of Biological & Chemical Sciences, London, UK (Declined)
- 2008: Harvard Medical School, Paul F. Glenn Laboratories for the Biological Mechanisms of Aging, Boston, MA, USA
- 2008: University of Lausanne, Department of Ecology and Evolution and Center for Integrative Genomics, Switzerland
- 2008: University of Glasgow, Division of Environmental & Evolutionary Biology, Glasgow, UK
- 2008: Centre National de la Recherche Scientifique (CNRS), Laboratoire Evolution, Génomes et Spéciation, and Centre de Génétique Moléculaire, Gif-sur-Yvette, France
- 2008: Austrian Science Foundation, Evaluation Hearing for Ph.D. Program in Population Genetics, Vienna, Austria
- 2008: University of Kentucky, Department of Biology, Lexington, KY, USA
- 2008: University of Nebraska, School of Biological Sciences, Lincoln, NE, USA
- 2008: Buck Institute for Age Research, Novato, CA, USA
- 2008: University of Oslo, Centre for Ecological and Evolutionary Synthesis, Norway
- 2007: Arizona State University, School of Life Sciences, Tempe, AZ, USA
- 2007: University of Veterinary Medicine Vienna, Institute of Animal Breeding & Genetics, Vienna, Austria
- 2007: Norwegian Life Sciences University, Department of Animal & Aquacultural Sci., Aas, Norway
- 2007: College of William & Mary, Departments of Biology/Mathematics, Williamsburg, VA, USA
- 2007: Florida State University, Department of Biological Sciences, Tallahassee, FL, USA
- 2007: University of Florida, Whitney Laboratory for Marine BioSciences, St. Augustine, FL, USA
- 2007: Brown University, Department of Ecology & Evolution, Providence, RI, USA
- 2006: Salk Institute for Biological Studies, La Jolla, CA, USA
- 2006: University of Lausanne, Department of Ecology & Evolution, Lausanne, Switzerland
- 2005: Brown University, Department of Ecology & Evolution, Providence, RI, USA
- 2005: Kilguss Research Institute, Reproductive Biology Seminar Series, Providence, RI, USA
- 2004: University of Florida, Whitney Laboratory for Marine BioSciences, St. Augustine, FL, USA
- 2004: University of Fribourg, Unit of Ecology & Evolution, Fribourg, Switzerland
- 2004: Brown University, Department of Ecology & Evolution, Providence, RI
- 2004: Yale University, Department of Ecology & Evolution, Steve Stearns' group, New Haven, CT
- 2003: University of Zürich, Institute of Zoology, Zürich, Switzerland
- 2003: Friedrich-Schiller University, Institute of Ecology, Jena, Germany
- 2002: Université Pierre & Marie Curie, Department of Ecology & Evolution, Paris, France
- 2002: ETH Zürich, Ecology & Evolution (Integrative Biology), Interaction Seminar, Zürich, Switzerland
- 2002: Princeton University, Department of Ecology & Evolution, David Stern's Group, Princeton, NJ
- 2002: Brown University, Department of Ecology and Evolution, Brown Bag Seminar, Providence, RI
- 2001: University of Bern, Department of Zoology, Bern, Switzerland

2000: Roche Research Foundation, Meeting of Board of Trustees, Basel, Switzerland

1999: University of Basel, Department of Integrative Biology, Basel, Switzerland

## CONTRIBUTED CONFERENCE PRESENTATIONS

[73 contributed conference presentations]

2021: Virtual Evolution 2021, Joint Annual Meeting of SSE, ASN, SSB, June 2021 (2 talks, coauthor)

2021: Cold Spring Harbor Laboratory (CSHL) meeting on Biology & Genomics of Social Insects (poster, coauthor)

2021: 62nd Annual *Drosophila* Conference, Workshop "A community-based approach to understanding *Drosophila* Evolution through Space and Time (DEST)" (talk)

2020: SMBE 2020, Quebec City, Canada (co-author, 2 presentations) (cancelled because of COVID-19)

2019: 26<sup>th</sup> European *Drosophila* Research Conference 2019 (EDRC 2019), EPFL Lausanne, Switzerland (2 talks, 1 poster, last author)

2019: 2019 Congress of the European Society for Evolutionary Biology (ESEB), Turku, Finland, August 2019 (1 talk, 1 poster, last author)

2019: Biology19, University of Zürich, Switzerland (1 talk and 1 poster, last author)

2018: Evolution 2018 Montpellier, II Joint Congress on Evolutionary Biology, Montpellier, France (2 posters, last author)

2017: 16<sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Groningen, Netherlands (1 talk and 4 posters; last author)

2017: 56<sup>th</sup> Annual Meeting of the Canadian Society of Zoologists (Poster; last author)

2017: Biology 17, Annual Swiss Conference on Ecology, Evolution, Systematics, Biogeography and Conservation, University of Bern (1 talk and 1 poster; last author)

2016: Symposium on Genetics of Adaptation, National Centre for Biological Sciences (NCBS), Bangalore, India (Talk; last author)

2016: 6<sup>th</sup> European Meeting of the International Union for the Study of Social Insects (IUSSI), Helsinki, Finland (Talk; last author)

2016: 3<sup>rd</sup> Ecology and Evolutionary Biology Symposium, Ankara, Turkey (Talk; last author) (cancelled)

2016: Swiss *Drosophila* Meeting, ETH Zurich Switzerland (Talk; last author)

2016: Evolution 2016, Austin, TX, USA (Talk; last author)

2016: 2nd Cologne Ageing Conference, Cologne, Germany (Poster; last author)

2016: Biology 16, Annual Swiss Conference on Ecology, Evolution, Systematics, Biogeography and Conservation, University of Lausanne (2 talks and 1 poster; last author)

2015: Population Genetics Group Meeting 49, Edinburgh, United Kingdom (last author)

2015: 24<sup>th</sup> European *Drosophila* Research Conference, Heidelberg, Germany (last author)

2015: Society for Molecular Biology & Evolution (SMBE), Vienna, Austria (Talk; last author)

2015: Society for Molecular Biology & Evolution Satellite Meeting (SMBEBA), Hameau de l'Etoile, France (Poster; last author)

2015: 15<sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Lausanne, Switzerland (2 talks and 1 poster; last author)



- 2015: 3<sup>rd</sup> LIMNA (Lausanne Integrative Metabolism and Nutrition Alliance) Symposium, SwissTech Convention Center, Lausanne, Switzerland (Poster; last author)
- 2015: Swiss *Drosophila* Meeting, Lausanne, Switzerland (Poster; last author)
- 2015: 56<sup>th</sup> Annual *Drosophila* Research Conference, Chicago, IL, USA (Poster; last author)
- 2015: Postdocs of Cambridge, "Crossing the Barriers" Lecture Series - "Evolution", University of Cambridge, UK (Talk; given by D. Fabian on a collaborative project)
- 2014: 12<sup>th</sup> International Symposium on Neurobiology and Neuroendocrinology of Aging, Bregenz, Austria (Poster; co-author)
- 2014: Evolution 2014, Raleigh Convention Center, Raleigh, NC, USA (Talk; last author)
- 2014: Eukaryotic -"omics": exploring and testing with next-generation sequencing, CUSO Doctoral Program in Ecology and Evolution, University of Geneva (Talk; last author)
- 2013: European *Drosophila* Research Conference (EDRC), Barcelona, Spain (Poster; last author)
- 2013: 14<sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Lisbon, Portugal (Talk; last author)
- 2013: 54<sup>th</sup> Annual *Drosophila* Research Conference, Washington, DC, USA (first author; poster)
- 2012: 53<sup>rd</sup> Annual *Drosophila* Research Conference, Chicago, IL, USA (last author; 2 posters and 1 talk)
- 2011: Life History Theory Workshop, University of Groningen, Herdershut Field Station (Talk; last author)
- 2011: Adaptation to Climate from a Spatial Perspective, Workshop at Lammi Biological Station, University of Helsinki, Finland (Talk; last author)
- 2011: Junior European *Drosophila* Investigators (JEDI) Meeting, Leysin, Switzerland (Short Talk)
- 2011: 13<sup>th</sup> Congress of the European Society for Evolutionary Biology, Tübingen, Germany (2 posters; co-author)
- 2011: 52<sup>nd</sup> Annual *Drosophila* Research Conference, San Diego, CA, USA (Talk and Poster; co-author)
- 2011: 44<sup>th</sup> Population Genetics Group Meeting, University of Hull, Hull, UK (Talk; co-author)
- 2010: Mind the Gap 2010: Joining Theoretical and Empirical Population Genetics, Workshop at the Max-Planck-Institute for Evolutionary Biology, Plön, Germany (Talk; co-author)
- 2010: 2<sup>nd</sup> Vienna *Drosophila* Meeting, Institute of Molecular Pathology, Vienna, Austria (Talk; co-author)
- 2010: 18<sup>th</sup> International Ecdysone Workshop, České Budějovice, Czech Republic (Poster; co-author)
- 2010: Annual Meeting of the Society for Molecular Biology and Evolution, Lyon, France (Poster; co-author)
- 2010: 51<sup>st</sup> Annual *Drosophila* Research Conference, Washington, DC, USA (Platform Talk; co-author)
- 2009: 12<sup>th</sup> Congress of the European Society for Evolutionary Biology, Turin, Italy (Poster)
- 2009: 1<sup>st</sup> Vienna *Drosophila* Meeting, University of Veterinary Medicine Vienna, Austria (Talk)
- 2008: Molecular Genetics of Aging, Cold Spring Harbor Laboratory, NY, USA (Talk; co-author)
- 2008: TOLL 2008, Recent Advances in Pattern Recognition, Cascais, Portugal (Talk; co-author)
- 2008: Society for the Study of Evolution, Minneapolis, MN, USA (Talk)
- 2008: Symposium "Aging: Linking Evolution with Mechanisms", University of Fribourg, Switzerland (Talk)
- 2008: 49<sup>th</sup> Annual *Drosophila* Research Conference, San Diego, CA, USA (Poster)
- 2007: Gordon Research Conference on Biology of Aging, Les Diablerets, Switzerland (Poster)
- 2007: 48<sup>th</sup> Annual *Drosophila* Research Conference, Philadelphia, PA, USA (Platform Talk)

- 2006: Molecular Genetics of Aging, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA (Talk)
- 2006: 11<sup>th</sup> Congress, International Society for Behavioral Ecology, Tours, France (Poster)
- 2006: Society for the Study of Evolution, Stony Brook, NY, USA (Talk and Poster)
- 2006: 47<sup>th</sup> Annual *Drosophila* Research Conference, Houston, TX, USA (Platform Talk)
- 2006: Gordon Research Conference on Biology of Aging, Ventura, CA, USA (Poster)
- 2005: 10<sup>th</sup> Congress of European Society of Evolutionary Biology, Krakow, Poland (Poster)
- 2005: 15<sup>th</sup> International Congress of Comparative Endocrinology, Boston, MA, USA (Talk)
- 2005: 46<sup>th</sup> Annual *Drosophila* Research Conference, San Diego, CA, USA (Poster)
- 2004: Gordon Research Conference on Biology of Aging, Aussois, France (Poster)
- 2004: Society for the Study of Evolution, Fort Collins, CO, USA (Talk)
- 2004: Biology 04 Meeting, Fribourg, Switzerland (Poster)
- 2003: 9<sup>th</sup> Congress, European Society of Evolutionary Biology, Leeds, UK (Poster)
- 2003: Biology 03 Meeting, University of Zürich, Zürich, Switzerland (Talk)
- 2002: Biology 02 Meeting, University of Bern, Bern, Switzerland (Talk)
- 2000: Society for the Study of Evolution, Bloomington, IN, USA (Talk)
- 2000: Swiss Symposium on Evolution, Ecology, Behaviour, Lausanne, Switzerland (Talk)
- 1999: British Ecological Society, Winter Meeting, Leeds, UK (Talk)
- 1992: Treffen der Deutschsprachigen Arachnologen, Naturhistorisches Museum Basel (Poster)

## TEACHING

### *COURSES AND LECTURES TAUGHT AT UNIVERSITY OF FRIBOURG*

- 2021-: Evolution on the bench (SBL.00417)
- 2020-: Evolutionary Genomics: 2-day module in a block course; lectures and exercises on molecular population genetics and genomics, MSc in Bioinformatics and Computational Biology, Universities of Fribourg and Bern (taught with Margot Paris)
- 2018-: Introduction to Bachelor work in Ecology and Evolution (BL.0031)
- 2018-: Life History Evolution & Aging (BL.0214) (optional MSc course)
- 2018-: General Biology II (BL.0002) (4 hrs on Evolution)
- 2018-: Experimental Ecology (practical; BL.0037)
- 2018-: Advanced Topics in Evolutionary Genetics and Ecology (BL.0201)
- 2018-: Seminars in Ecology and Evolution (BL.0211)
- 2018-: Research Seminars in Ecology and Evolution (BL.0212)
- 2018-: UniFR contact for "Tropical Biology Association (TBA) Field Course" (BL.0210)
- 2018-: UniFR contact for "Evolutionary Biology Workshop Guarda" (organized by D. Ebert, Basel, and S. Bonhoeffer, Zurich; BL.0206)
- 2017-: Evolutionary Biology (BL.0021)

### *COURSES AND LECTURES TAUGHT AT UNIVERSITY OF LAUSANNE*

- 2014-: Evolution of Life History and Aging (MSc level, 14 semester hours )

- 2014-: Darwinian Medicine - Evolution in Health and Disease (BSc level, 14 semester hours)  
 2013-: Introduction to Scientific Writing (MSc level, 16 semester hours)

*COURSES AND LECTURES TAUGHT AT VETMEDUNI VIENNA*

- 2011-2012: Basic Course for Ph.D. Students in Population Genetics: *Drosophila* Genetics  
 2012: Darwinian Medicine (with D. Penn)  
 2010-2012: Special Molecular Biology (with A. McGregor, C. Metzner)  
 2009-2010: Basic Course for Ph.D. Students in Population Genetics: Biostatistics (with C. Vogl)  
 2009-2012: Invertebrate BioModels (with A. McGregor, A. Betancourt)  
 2009-2012: Basic Course for Ph.D. Students in Population Genetics: Life History Evolution  
 2009-2012: Darwinian Medicine (with A. McGregor, D. Penn)  
 2009-2012: Current Topics in Population Genetics (with C. Schlötterer, A. McGregor, C. Kosiol)  
 2009-2012: Population Genetics - From Theory to Practice (with C. Schlötterer, A. McGregor, C. Kosiol)

*COURSES TAUGHT AT OTHER UNIVERSITIES*

- 2019: The publishing process & some career advice for PhD students, 1/2-day module in a course "From Experimental Design to Publishing", EvoPAD graduate student training program, Institute for Evolution and Biodiversity, University of Münster, Germany  
 2004: Data Analysis - Introductory Biostatistics, University of Fribourg (with D. Meyer, T. Steinger)

*INVITED GUEST LECTURES*

- 2013-17: Life History Evolution, University of Neuchâtel (Lectured for F. Helfenstein)  
 2007: Evolution of Aging, College of William & Mary (Lectured for T. Killingback)  
 2006: Evolution of Cooperation, Brown University (Lectured for S. McGarvey)  
 2004/05/07: Darwinian Medicine, Brown University (Lectured for M. Tatar)

*TEACHING ASSISTANT*

- 2003: Arena in Evolution, TA to D. Ebert, D. Meyer, T. Kawecki, University of Fribourg  
 2002: Evolutionary Biology, TA to T. Kawecki, University of Fribourg  
 2000: Evolutionary Genetics, Teaching Assistant (TA) to D. Ebert, University of Basel

**TRAINING AND SUPERVISION OF STUDENTS, POSTDOCS AND LAB PERSONNEL**

*POSTDOCS, SENIOR RESEARCHERS AND ADMINISTRATORS*

- 08/2019-date: Dr. Margot Paris. University of Fribourg.
- 09/2018-date: Dr. Envel Kerdaffrec, EMBO Postdoctoral Fellow. University of Fribourg.
- 10/2018-02/2019: Dr. Sara Santi, Administrator of the CUSO (Conférence universitaire de Suisse occidentale) Inter-University Doctoral Program in Ecology & Evolution (DPEE) (now in private industry).
- 03/2018-date: Dr. Marta Bellone, Administrator of the CUSO (Conférence universitaire de Suisse occidentale) Inter-University Doctoral Program in Ecology & Evolution (DPEE).
- 08/2017-date: Dr. Esra Durmaz. University of Fribourg.

- 10/2014-10/2020 Dr. Katja Hoedjes. University of Lausanne. Co-advised with Laurent Keller (currently tenure-track assistant professor at the University of Amsterdam).
- 01/2013-11/2018: Dr. Martin Kapun. University of Fribourg and Lausanne (currently senior postdoc / junior group leader at the Department of Evolutionary Biology and Environmental Studies, University of Zurich, with a joint appointment at the Medical University Vienna).
- 04/2014-03/2015: Dr. Sara Carvalho. University of Lausanne.
- 01/2013-12/2014: Dr. Chantal Daupin-Villemant. Senior researcher / postdoc, also fulfilling part-time laboratory technician duties.

#### PH.D. STUDENTS

- 2019-date: Amritansh Vats, University of Fribourg. Secondary advisor; primary advisor: Adria LeBoeuf.
- 2019-date: Marie-Pierre Meurville, University of Fribourg. Secondary advisor; primary advisor: Adria LeBoeuf.
- 01/2016-date: Marisa Rodrigues. *The Physiological and Metabolic Basis of the Fecundity/Longevity Trade-off in Drosophila*. University of Lausanne; from 08/2017 at University of Fribourg.
- 05/2013-08/2017: Kathrin Garschall (currently postdoc at Sars International Centre for Marine Molecular Biology, University of Bergen, Norway). *The Genetic Basis of Aging and Longevity in Drosophila melanogaster*. University of Lausanne. Primary Advisor; Co-Advisor: Marc Robinson-Rechavi. (Supported by a stipend from the Société Académique Vaudoise between May and July 2017.) Defense date: 29 August 2017.
- 07/2013-07/2016: Esra Durmaz (currently postdoc at the Department of Biology, University of Fribourg). *The Effects of Clinal Polymorphisms on Drosophila Life History*. University of Lausanne. Primary Advisor; Co-Advisor: Tadeusz Kawecki. Defense date: 21 July 2017.
- 06/2009-11/2014. Martina Galikova (currently permanent researcher at the Institute of Zoology, Slovak Academy of Sciences). Ph.D. Thesis: *Reproductive Physiology and Aging in Females of Drosophila melanogaster*. Vetmeduni Vienna. Primary Advisor; Co-Advisors: Alistair McGregor and Christian Schlötterer. Defense date: 27 November 2014. External expert: Bas Zwaan.
- 10/2010-11/2014: Daniel Fabian (currently senior bioinformatician at Lonza). Ph.D. Thesis: *The Genomic and Phenotypic Basis of Life History Traits in Drosophila melanogaster*. Vetmeduni Vienna. Primary Advisor; Co-Advisor: Christian Schlötterer. Defense date: 5 November 2014. External expert: Sergey Nuzhdin.
- 06/2009-01/2014. Peter Klepsatel (currently permanent researcher at the Institute of Zoology, Slovak Academy of Sciences). Ph.D. Thesis: *Variation in Life History, Morphology and Thermal Phenotypic Plasticity in Drosophila melanogaster*. Vetmeduni Vienna. Primary Advisor; Co-Advisor: Christian Schlötterer. Defense date: 24 January 2014. External expert: Patricia J. Moore.
- 03/2010-06/2013. Martin Kapun (currently senior postdoc / junior group leader, Department of Evolutionary Biology and Environmental Studies, University of Zurich and at the Medical University Vienna). Ph.D. Thesis: *The Genetic Basis of Adaptive Evolution in Drosophila melanogaster*. Co-Advisor; Primary Advisor: Christian Schlötterer. Vetmeduni Vienna. Defense date: 17 June 2013. External expert: Theodore J. Morgan.

#### M.SC. AND B.SC. STUDENTS

- 03/2019-09/2020: Victor Rodriguez Vasquez, MSc Thesis Project: Effects of B-vitamins and probiotic supplementation on longevity and body weight of winter bees (*Apis mellifera*). University of Fribourg and University of Bern. Primary Advisors at UniBE: Gina Retschnig and Peter Neumann (UniBE).

- 02/-09/2020: Florian Baumgartner, BSc Thesis Project: Selective forces acting on the In(3R)Payne inversion in *Drosophila melanogaster*. University of Fribourg.
- 02/2018-05/2018: Jeanne Bruelhart, BSc Thesis Project.:The effects of allelic competition and thermal adaptation on *Drosophila* life history. University of Fribourg.
- 02/2018-05/2018: Antoine Merckelbach, BSc Thesis Project: A functional germ line is required for the post-mating immune response in *D. melanogaster*. University of Fribourg.
- 09/2016-07/2017: Clare Benson, Honors (MSc Placement) Student from the University of Manchester. *The effects of clinal polymorphisms on Drosophila life history*. University of Lausanne.
- 03/2016-06/2016: Ivo Moes (Wageningen University), M.Sc. Internship: *Genetic Basis of the Evolution of Longevity in an Experimental Evolution Experiment*. Primary Advisor: Bas Zwaan (Wageningen University).
- 12/2013-01/2015: Ana Paula Machado, MSc Thesis Project, MSc BEC Program (Behavior, Evolution and Conversation). *Integration of museum specimens into the phylogeographic analysis of African and Asiatic Cheetahs*. University of Lausanne and Vetmeduni Vienna (co-supervised with Dr. Pamela Burger, Vienna).
- 12/2013-01/2015: Chloe Schmidt, MSc Thesis Project, MSc BEC Program (Behavior, Evolution and Conversation). *Unraveling the Effects of a Major Chromosomal Inversion on Life History and Fitness in Drosophila*. University of Lausanne. Supervised by Martin Kapun and Thomas Flatt.
- 03/2013-08/2013: Roel Bevers (Wageningen University), M.Sc. Internship: *Function of couch potato in adult physiology and life history*. Primary Advisor: Bas Zwaan (Wageningen University).
- 12/2010-11/2011: Leo Edlinger, M.Sc. Thesis: *The Role of RabX2 in Drosophila Aging and Autophagy*. Meduni Vienna; Vetmeduni Vienna.
- 02/2011-09/2011: Agnieszka Parlicka, M.Sc. Thesis in Biomedicine & Biotechnology, Vetmeduni Vienna. *Functional characterization of the Drosophila protein unkempt (unk), a new component of the insulin/TOR signaling pathway*. Internal Advisor; Primary External Advisor: Hugo Stocker (ETH Zürich).
- 06-12/2010: Victoria Steinmann, M.Sc. Thesis in Biomedicine & Biotechnology: *Effects of pasilla knockdown and over-expression on alternative splicing of the Drosophila transcriptome and development*. Co-Advisor; Primary Advisor: Alistair McGregor. Vetmeduni Vienna.
- 02-06/2010: Julia Steger, B.Sc. Thesis in Biomedicine & Biotechnology: *Effects of Germline Ablation on Fat Metabolism in Drosophila melanogaster*. Vetmeduni Vienna.
- 02-06/2010: Anna Schönauer, B.Sc. Thesis in Biomedicine & Biotechnology: *Eye size evolution in Drosophila yakuba and D. santomea*. Co-Advisor; Primary Advisor: Alistair McGregor. Vetmeduni Vienna.
- 2009-2010: Kai Schrötter, M.Sc. Thesis in Biomedicine & Biotechnology, Vetmeduni Vienna, *Mapping of genes that cause variation in susceptibility to the sigma virus in Drosophila melanogaster*. Internal Advisor; Primary External Advisor: Frank Jiggins (University of Cambridge, UK).

#### UNDERGRADUATE STUDENTS

- 10/2014-12/2014: Judith Schneider, First Steps Project, MSc BEC Program (Behavior, Evolution and Conversation): *Modulation of egg-laying behavior by olfactory cues in Drosophila*. University of Lausanne.
- 10/2013-12/2013: Alejandra Maria Parreno and Tania Studer, First Steps Project, MSc BEC Program (Behavior, Evolution and Conversation): *Functional Genetic Tests of Candidate Genes Affecting Drosophila Aging and Life History*. University of Lausanne.

- 07/2012: Valentina Zehetbauer, Summer Project Student from the University of Natural Resources & Applied Life Sciences (BOKU) Vienna: *Altitudinal Variation in Drosophila Life History*. Vetmeduni Vienna.
- 07/2012: Simone Bauer, Project Work in Biomedicine & Biotechnology: *Altitudinal Variation in Drosophila Life History*. Vetmeduni Vienna.
- 09/2011: Roman Maresch, Project Work in Biomedicine & Biotechnology: *Steroid and Insulin Signaling in the Drosophila Ovary*. Vetmeduni Vienna.
- 02/2011: Jaqueline Kopp, Project Work in Biomedicine & Biotechnology: *Drosophila as a Model for Studying the Germline Regulation of Aging*. Vetmeduni Vienna.
- 02/2011: Bianca Neumeister, Project Work in Biomedicine & Biotechnology: *Drosophila as a Model for Studying the Germline Regulation of Aging*. Vetmeduni Vienna.
- 11/2009: Manuel Miller, Project Work in Biomedicine & Biotechnology: *The Effect of Overexpressing Apoptotic Genes on Germline Proliferation in Drosophila*. Vetmeduni Vienna.

#### HIGH SCHOOL STUDENTS

- 08/2011 and 09/2012: Pia Hager. Project work, supervised by P. Klepsatel: *Life History Traits in Natural Populations of D. melanogaster*.

#### LAB MANAGERS, TECHNICIANS, AND LAB ASSISTANTS

- 02-08/2020: Sarah Descloux, Student Assistant helping with fly work in the lab. University of Fribourg.
- 01/2020-date: Dr. Patrick Favre. Lab manager and technician. University of Fribourg
- 02-09/2019: Virginie Trieu, Student Assistant helping with fly work in the lab. University of Fribourg.
- 02/2019-date: Thibault Schowing, Student Assistant helping with fly work in the lab. University of Fribourg.
- 11/2018-01/2020: Dr. Margot Paris. Lab manager and technician. University of Fribourg
- 04/2018-11/2018. Laurent Boualit. Lab manager and technician. University of Fribourg.
- 12/2017-03/2018. Ursina Rathgeb. Lab manager and technician. University of Fribourg.
- 8/2017-11/2017. Dr. Axel Zander. Lab manager and technician. University of Fribourg.
- 03/2017-08/2017. Cindy Ramel. Student assistant; fly media preparation. University of Lausanne.
- 03/2016-02/2017. Pierre Perréaz. Student assistant; fly media preparation. University of Lausanne.
- 03/2015-02/2016. Christophe Sahli. Student assistant; fly media preparation. University of Lausanne.
- 07/2014-01/2015. Maria-Alejandra Parreno. Student assistant; media preparation. University of Lausanne.
- 03/2014-06/2014. Estelle Clerc. Student assistant; fly media preparation. University of Lausanne.
- 04/2013-03/2014. Bahram Kheradmand. Student assistant; fly media preparation. University of Lausanne.
- 03/2013-09/2015. Daria Martynow. Lab manager and technician. University of Lausanne.
- 01/2013-12/2014. Dr. Chantal Dauphin-Villemant. Senior research assistant. University of Lausanne.
- 10/2011-11/2012. Akila Weerasekera. Lab manager and technician. Vetmeduni Vienna.
- 10/2010-09/2011. Claudia Höchsmann. Lab manager and technician. Vetmeduni Vienna.
- 10/2009-09/2010. Dr. Gabriele Senti. Lab manager and technician. Vetmeduni Vienna.



*HOST FOR VISITING SCIENTISTS*

- 07/2018. Dr. Franziska Franke (Postdoc, Oxford Brookes University, Oxford, UK). Advisor: Alistair McGregor.
- 03-06/2015. Gonçalo Matos (MSc student, Instituto Gulbenkian, Oeiras, Portugal). Advisor: Elio Sucena.
- 04-09/2014. Gabriele Andreatta (PhD student, University of Padova, Italy). Advisor: Rodolfo Costa.
- 07-09/2012. Dr. Markus Schosserer (Postdoc, University of Natural Resources & Applied Life Sciences, BOKU, Vienna, Austria). Advisor: Johannes Grillari.
- 01-06/2011. Prof. Patricia Moore (University of Exeter, Cornwall Campus, UK, now UGA, Athens, Georgia, USA). 6 month sabbatical in Vienna, funded by a Leverhulme Trust Fellowship.
- 10-12/2010 and 09/11/12 2011. Dr. Chantal Dauphin-Villemant (formerly at CNRS, Paris). Short-term research stays in Vienna, sponsored by CNRS, and by Profillinien grant to TF.

**EXTERNAL THESIS EXAMINER & MEMBER OF PH.D. AND M.SC. STUDENT COMMITTEES**

- External PhD reviewer, Alice Séguret, Martin-Luther University Halle-Wittenberg, Germany. "Ageing and the costs of reproduction: insights from *Euglossa viridissima*, an orchid bee on the cusp of sociality". Advisor: Robert Paxton.
- External PhD reviewer, Noora Poikela, University of Jyväskylä, Finland. "Mechanisms underlying speciation and adaptation processes in two closely related *Drosophila virilis* group species". Advisor: Maaria Kankare.
- External examiner, Master thesis presentations, Master in Behavior, Evolution and Conservation (BEC), Department of Ecology and Evolution, University of Lausanne, 1 and 2 February 2021
- PhD thesis committee member, Illektra Schulz, Department of Biology, University of Fribourg, Switzerland. "Towards reliable, flexible and reproducible processing of low-depth and ancient sequencing data". Advisor: Daniel Wegmann.
- External PhD reviewer. Yiguan Wang, School of Biological Sciences, University of Queensland, Australia. "The impact of natural selection on genomic variation in natural and experimental populations of *Drosophila serrata*". Advisor: Stephen Chenoweth.
- External PhD examiner, Amaranta Fontcuberta, University of Lausanne, Department of Ecology and Evolution, Lausanne, Switzerland. "Dispersal and social polymorphism in the Alpine silver ant". Advisor: Michel Chapuisat. Defense date: 13 November 2020.
- External PhD examiner, Andrea Komljenovic, University of Lausanne, Department of Ecology and Evolution, Lausanne, Switzerland. "Bioinformatic and multivariate approaches in evolutionary systems biology of healthy aging". Advisor: Marc Robinson-Rechavi. Defense date: 27 October 2020.
- External PhD committee member for PhD studies of Lina Maria Pedraza Hernandez, University of Regensburg. Advisor: Jürgen Heinze.
- Examiner of PhD Thesis of Marco Galimberti, Department of Biology, University of Fribourg, Switzerland. October 2019. "New methods to detect divergent selection and their application to domesticated species". Advisor: Daniel Wegmann. Private exam: 28 October 2019.
- External examiner for PhD Thesis of Eva Koch, Institute of Evolutionary Biology and Environmental Studies, University of Zürich. Advisor: Frédéric Guillaume. Exam: 3 September 2019.
- External evaluation of MSc Internship, Antoine Dehem, Biosciences Master, École Normale Supérieure de Lyon, France; June 2019. "Hidden costs of longevity: TOR-dependent lifespan extension in *Caenorhabditis elegans*". Work performed at University of East Anglia, Advisor: Alexei Maklakov.

- PhD thesis committee member, Jenifer Kaldun, Department of Biology, University of Fribourg, Switzerland. 2018-. "Regulation of Synaptic Plasticity in *Drosophila melanogaster*". Advisor: Simon Sprecher.
- PhD thesis committee member, Alessandro Belli, Department of Biology, University of Neuchatel, Switzerland. "The role of oxidative stress on the senescence and trade-off between resistance and tolerance to parasites". Advisor: Jacob Koella. Mid-thesis exam: 30 November 2018.
- PhD thesis committee member, Vivian Link, Department of Biology, University of Fribourg, Switzerland. "Learning about biology from challenging data". Advisor: Daniel Wegmann. Final exam: 2 March 2020.
- External examiner for PhD Thesis of Adamandia Kapopoulou, EPFL. "Computational and Statistical Analyses of Molecular Evolution and Demography Using Large-Scale Sequencing Data". Advisors: Jeffrey Jensen and Bart Deplancke. Exam: 11 June 2018.
- External examiner for PhD Thesis of Casper van der Kooi, University of Lausanne. "Evolution of parthenogenesis". Advisor: Tanja Schwander. Exam: 1 June 2018.
- External examiner for PhD Thesis of Simone Mumbauer, University of Lausanne. "Towards the understanding of growth regulation: the role of ferritin in growth control". Advisor: Fisun Hamaratoglu and Nouria Hernandez. Exam: 17 May 2018.
- External examiner for MSc Thesis of Michael Beyeler, Ecole Polytechnique Fédérale de Lausanne (EPFL). "The Genetic Basis of Sexual Size Dimorphism in *Drosophila melanogaster*". Advisor: Brian Hollis and Bart Deplancke. Exam: 9 February 2018.
- PhD thesis committee member; PhD exam jury president, Rachel Korn, Department of Biology, University of Fribourg, Switzerland. "Structure and dynamics of communities in natural microcosms under global change". Advisor: Louis-Félix Bersier. Defense: 21 December 2020.
- PhD thesis committee member, Samantha Coinus, Department of Biology, University of Fribourg, Switzerland. "Niche adaptations along gradients of biodiversity and of environmental change". Advisor: Louis-Félix Bersier.
- Examiner of Ph.D. Thesis of Francisco Javier Bernardo García, Department of Biology, University of Fribourg, Switzerland. "Genetic control of photoreceptor terminal differentiation in *Drosophila melanogaster*". Advisor: Simon Sprecher. Defense: 25 January 2018.
- External examiner of Ph.D. Thesis of Elvira Lafuente, Instituto Gulbenkian de Ciência, Oeiras, Portugal. "Evolution and regulation of developmental plasticity in *Drosophila*". Defense: 15 December 2017. Advisor: Patricia Beldade.
- External reviewer of Ph.D. Thesis of Ann-Marie Oppold, Goethe University, Frankfurt, Germany. "Mechanismen der genomischen Populationsdivergenz in *Chironomus riparius* entlang eines Klimagradienten". Advisor: Markus Pfenninger.
- External Ph.D. examiner, Rahul Rane, University of Melbourne. "The genomic basis of climate and host adaptation". Advisor: Ary A. Hoffmann.
- Ph.D. thesis committee member (mid-thesis exam), Amaranta Fontcuberta, University of Lausanne, Department of Ecology and Evolution, Lausanne, Switzerland. May 2017. "Ecological genomics and behavioral maintenance of social polymorphism in the Alpine silver ant". Advisor: Michel Chapuisat.
- Ph.D. thesis examiner, Louise Nicky Ormond, EPFL, School of Life Sciences, Lausanne Switzerland. "Methods and Applications in Statistical Population Genetics". 15 December 2016. Advisor: Jeff Jensen.
- External Ph.D. examiner, Pavel Payne, Ph.D. Project at the Institute for Science and Technology (IST), Klosterneuburg/Maria Gugging, Austria: "The role of trade-offs in the Cas/CRISPR bacterial immune

system in the evolutionary dynamics of bacterial populations". 12 December 2016. Advisors: Jonathan Bollback and Nick Barton.

- External Ph.D. examiner, James Rapkin, University of Exeter, Penryn, UK. "Food for Thought - The Importance of Nutrition in Sexual Selection". 1 December 2016. Advisor: John Hunt.
- Ph.D. Thesis examiner, Ivan Mateus, Department of Ecology and Evolution, Lausanne, Switzerland. "Role of host and fungal intra-species genetic variability in the symbiosis between arbuscular mycorrhizal fungus *Rizopagus irregularis* and cassava (*Manihot esculenta*)". 23 November 2016; Public defense: 7 December 2016. Advisor: Ian Sanders.
- Ph.D. thesis committee member (mid-thesis exam), Casper van der Kooi, University of Lausanne, Department of Ecology and Evolution, Lausanne, Switzerland. 9 November 2016. Advisor: Tanja Schwander.
- External examiner for Ph.D. Thesis of Katharina von Wyschetzki, University of Regensburg, Regensburg, Germany. "Evaluating proximate causes of longevity in ant queens by RNA-sequencing". Advisor: Jürgen Heinze.
- External examiner for Ph.D. Thesis of Maroun Bou Sleiman, Ecole Polytechnique Fédérale de Lausanne EPFL, Lausanne, Switzerland. "The *Drosophila* gut response to infection: a systems approach". Defense: 6 July 2016. Advisors: Bart Deplancke, Bruno Lemaitre.
- External examiner for Ph.D. Thesis of Michael Zeller, University of Neuchatel, Neuchatel, Switzerland. "Impact of environment on co-evolution between hosts and parasites". Defense: 25 June 2016. Advisor: Jacob Koella.
- External examiner for Ph.D. Thesis of Christina M. May, Wageningen University, Wageningen, Netherlands. "Plastic and evolutionary effects of development diet on adult phenotypes and gene expression in the fruit fly". Defense: 22 June 2016. Advisor: Bas J. Zwaan.
- External examiner for Ph.D. Thesis of Daniela Schneider, University of Vienna, Vienna, Austria. "Deciphering the molecular mechanisms of symbiotic speciation". 10 July 2015. Advisors: Wolfgang Miller and Michael Jantsch.
- Ph.D. thesis committee member (mid-thesis exam), Andrea Komljenovic, University of Lausanne, Department of Ecology and Evolution, Lausanne, Switzerland. July 2015. "AgingX - a cross-species bioinformatics approach to the biology of aging". Advisor: Marc Robinson-Rechavi.
- External examiner for Ph.D. thesis of Cláudia Mendes, Instituto Gulbenkian (IGC), Oeiras, Portugal. "Nutritional plasticity and evolutionary divergence in the *Drosophila* ovary". 29 May 2015. Advisors: Christen Mirth and Elio Sucena.
- External expert, Ph.D. Thesis Committee, First Year Candidacy of Roel P. J. Bevers, EPFL, Lausanne, Switzerland. March 2015. "Mitochondrial Variation and its Impact on Metabolic Phenotypes". Advisor: Bart Deplancke.
- Ph.D. thesis committee member, Simone Mumbauer, University of Lausanne, Center of Integrative Genomics, Lausanne, Switzerland. March 2015. "Dynamic aspects of Hippo signaling". Advisor: Fisun Hamaratoglu.
- Ph.D. thesis committee member (mid-thesis exam), Ivan Mateus, University of Lausanne, Department of Ecology, Lausanne, Switzerland. January 2015. "Patterns and causes of genetic variation in an arbuscular mycorrhizal fungus". Advisor: Ian Sanders.
- Reading committee member and external examiner for Ph.D. Thesis of Joost van den Heuvel, Leiden University, Leiden, Netherlands. 2014. "The evolution and plasticity of life histories upon variation of nutrition". Advisors: Paul Brakefield, Bas Zwaan, Tom Kirkwood, and Daryl Shanley. Defense: 25 November 2014.

- Public external examiner ("opponent") for Ph.D. Thesis of Jouni Kvist. 2014. University of Helsinki, Institute of Biotechnology, Helsinki, Finland. "Functional Genomics of the Glanville Fritillary Butterfly". Advisors: Mikko Frilander and Ilkka Hanski. Defense: 24 October 2014.
- External examiner for Ph.D. thesis of Colin McClure, University of Bath, Department of Biology and Biochemistry, Bath, UK. 2014. "Life History Implications of Sex, Diet and Pathogen Exposure in the Fruit Fly". Advisor: Nicholas Priest; Internal Examiner: Laurence Hurst. Defense: 4 September 2014.
- External examiner for Ph.D. dissertation of Silvia Paolucci, University of Groningen, Centre for Ecological and Evolutionary Studies, Groningen, Netherlands. 2014. "The genetics of adaptive photoperiodic response in *Nasonia vitripennis*". Advisor: Leo Beukeboom.
- External examiner for MSc thesis of Hyunjin Shim, Ecole Polytechnique Fédérale de Lausanne (EPFL). 2014. "Estimating Selection Coefficient from Time-Serial Data with Likelihood-based and ABC-based Methods". Advisor: Jeffrey Jensen.
- External examiner ("rapporteur") for Ph.D. dissertation of Nausicaa Poulet, University of Nice-Sophia Antipolis, France. 2013. "Developmental Plasticity and Evolution of the *Caenorhabditis* germline and reproductive system". Advisor: Christian Braendle.
- External pre-Examiner for Ph.D. dissertation of Philipp Lehmann, Department of Biological and Environmental Science, University of Jyväskylä, Finland. 2013. "Eco-physiological aspects of adaptation to seasonal environments: the latitudinal range expansion of the Colorado potato beetle across Europe". Advisor: Leena Lindström.
- Ph.D. candidacy committee member. 2013-date. Bou Sleiman Maroun (Ecole Polytechnique Federale de Lausanne, EPFL): "Uncovering the Basis of Natural Variation in *Drosophila* Response to Infection". Advisor: Bruno Lemaitre.
- Ph.D. committee member. 2012-2016. Pavel Payne, Ph.D. Project at the Institute for Science and Technology (IST), Klosterneuburg/Maria Gugging, Austria: "The role of trade-offs in the Cas/CRISPR bacterial immune system in the evolutionary dynamics of bacterial populations". Advisors: Jonathan Bollback and Nick Barton.
- External examiner for Ph.D. dissertation of Jan Rynes, Department of Molecular Biology, University of South Bohemia, Ceske Budejovice, Czech Republic. 2012. "Role of the bZIP protein Atf3 in metabolic and immune homeostasis and Molecular interactions of the insect juvenile hormone receptor Met". Advisor: Marek Jindra.
- Public external examiner ("opponent") for Ph.D. dissertation of Venera Tyukmaeva, Department of Biological and Environmental Sciences, University of Jyväskylä, Finland. 2012. "Adaptation to Seasonality: Genetics and Variation in Life-History Traits Important in Overwintering". Advisors: Anneli Hoikkala and Maaria Kankare. 26 October 2012.
- External examiner ("rapporteur") for Ph.D. Dissertation of Jérôme Goudeau, Ecole Normale Supérieure de Lyon, Laboratoire de Biologie Moléculaire de la Cellule, Lyon, France. 2011. "Links between Germline and Longevity in *Caenorhabditis elegans*". Advisor: Hugo Aguilaniu. 30 June 2011.

## EDITORIAL SERVICE

- Guest Editor, *Philosophical Transactions of the Royal Society of London B* Theme Issue on "Genomic Architecture of Supergenes: Causes and Evolutionary Consequences", together with Emma Berdan, Katie Lotterhos, Genny Kozak and Ben Wielstra
- Member, Advisory Group (Task Force) for *Evolution* (2021-date)
- Associate Editor, *Proceedings of the Royal Society of London B* (2021-2024)
- Guest Reviewing Editor, *eLife* (January 2020)

- Associate Editor, *Evolution* (2020-2022; and 2016-2018)
- Associate Editor, *Ecology and Evolution* (2016-2020)
- Reviewing Board Member (Recommender), *Peer Community in Evolutionary Biology* (2016-date)
- Section Editor, *BMC Zoology* (Editor-in-Chief of life history section) (2016-2021)
- Reviewing Editor, *Frontiers in Endocrinology of Aging* (2014)
- Special Research Topics Editor, *Frontiers in Genetics of Aging*: "Neuronal inputs and outputs of aging and longevity" (with J. Alcedo and E. Pasyukova, 2011-2013)
- Contributing Member, *Faculty of 1000* (F1000), Developmental Biology Faculty, Aging Section (2011-date)
- Academic Editor, *PLoS ONE* (2011-2014)
- Associate Editor, *Frontiers in Genetics of Aging* (2011-2014)
- Reviewing Editor, *Frontiers in Experimental Endocrinology* (2011-2014)
- Deciding Editor, *Journal of Evolutionary Biology* (2010-2016).
- Reviewing Editor, *Journal of Evolutionary Biology* (2009-12; promoted to DE in 2010).

## REVIEWER SERVICE

### REVIEWER FOR ACADEMIC JOURNALS

[67 journals; approx. 12-24 reviews per year]

AGING CELL, AMERICAN NATURALIST, AMPHIBIA-REPTILIA, ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, ANIMAL BEHAVIOUR, BEHAVIORAL ECOLOGY AND SOCIOBIOLOGY, BIOGERONTOLOGY, BIOLOGY LETTERS, BMC BIOLOGY, BMC EVOLUTIONARY BIOLOGY, BMC GENOMICS, BMC GERIATRICS, CURRENT BIOLOGY, CURRENT OPINION IN INSECT SCIENCE, DEMOGRAPHIC RESEARCH, ECOLOGY, ECOLOGY LETTERS, eLIFE, EVOLUTION, EVOLUTION LETTERS, EVOLUTION & DEVELOPMENT, EVOLUTIONARY ECOLOGY, EVOLUTIONARY BIOLOGY, EXPERIMENTAL GERONTOLOGY, FEBS LETTERS, FLY, FRONTIERS IN ZOOLOGY, FUNCTIONAL ECOLOGY, G3, GENETICS, GENETICS RESEARCH, GENOME BIOLOGY AND EVOLUTION, GERONTOLOGY, HEREDITY, HORMONES AND BEHAVIOR, INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY, INSECT MOLECULAR BIOLOGY, INSECT SCIENCE, INTEGRATIVE & COMPARATIVE BIOLOGY, JOURNAL OF BIOLOGICAL CHEMISTRY, JOURNAL OF EVOLUTIONARY BIOLOGY, JOURNAL OF EXPERIMENTAL BIOLOGY, JOURNAL OF EXPERIMENTAL ZOOLOGY B (MOLECULAR & DEVELOPMENTAL EVOLUTION), JOURNAL OF GERONTOLOGY: BIOLOGICAL SCIENCES, JOURNAL OF INSECT BEHAVIOR, JOURNAL OF INSECT PHYSIOLOGY, JOURNAL OF THEORETICAL BIOLOGY, JOURNAL OF ZOOLOGY, MECHANISMS OF AGEING AND DEVELOPMENT, METHODS IN ECOLOGY AND EVOLUTION, MOLECULAR BIOLOGY AND EVOLUTION, MOLECULAR ECOLOGY, NATURE, NATURE COMMUNICATIONS, NATURE ECOLOGY & EVOLUTION, NATURE REVIEWS CANCER, OECOLOGIA, PEERJ, PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON B, PLOS BIOLOGY, PLOS GENETICS, PLOS ONE, PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON B, PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE USA, SCIENTIFIC REPORTS, TRENDS IN ECOLOGY AND EVOLUTION, TRENDS IN CELL BIOLOGY.

- Top Reviewer for *PROCEEDINGS OF THE ROYAL SOCIETY LONDON B* in 2015
- Top Reviewer for *MOLECULAR ECOLOGY* 2014 & 2015 (for review performance 2012-2013 and 2013-2014; top 8% of reviewers)

### REVIEWER FOR ACADEMIC BOOK PUBLISHERS (BOOK PROPOSALS, ETC.)

- *Oxford University Press*, Oxford, UK: review of the evolutionary biology content of the Oxford Reference (OR; [www.OxfordReference.com](http://www.OxfordReference.com)) online publishing platform (OUP's A to Z reference content)

- *Oxford University Press, Oxford, UK: Does Aging Stop?*, by L.D. Mueller, C.L. Rauser, and M.R. Rose. 2011.

#### REVIEWER FOR BOOK CHAPTERS

- Chapter in: A. Córdoba-Aguilar, D. González-Tokman and I. González-Santoyo (eds.) (forthcoming), *Insect Behavior: From Mechanisms to Ecological and Evolutionary Consequences*. Oxford University Press.
- Chapter in: R.D. Aldridge and D. M. Sever (eds.) (2011), *Reproductive biology and phylogeny of snakes*. Volume 9, Reproductive Biology and Phylogeny series, B. G. M. Jamieson (ed). CRC Press, Boca Raton, Florida, USA.

#### REVIEWER FOR GRANTS AND FELLOWSHIPS

[46 funding agencies and foundations; approx. 3-8 reviews per year]

- Academy of Finland, invited panelist for "Molecular Regulatory Networks of Life" (R'Life) Program (declined due to overcommitment; remote review of 4 proposals)
- AFAR (American Federation for Aging Research), National Scientific Advisory Council, USA (various AFAR grant proposals, including Ellison Medical Foundation and Glenn Foundation grants and fellowships)
- AFM (Association Française contre les Myopathies), France
- Alexander von Humboldt Foundation (Sofja Kovalevskaja Award)
- ANR (Agence Nationale de la Recherche), France
- ARC (Australian Research Council) (Biosciences; International Reader/Assessor), Australia
- Austrian Academy of Sciences, Doctoral (DOC) Fellowship
- BARD (United States - Israel Binational Agricultural Research & Development Fund), USA & Israel
- BBSRC (Biotechnology and Biological Sciences Research Council), UK
- C.T. de Wit Graduate School for Production Ecology & Resource Conservation, Department of Genetics, Wageningen University, Ph.D. Proposal
- CAS (Centre for Advanced Study), Norwegian Academy of Science and Letters, Oslo, Norway
- Centre national de la recherche scientifique (CNRS) and Institut national de la santé et de la recherche médicale (INSERM) (France), ATIP-Avenir Program
- GACR (Czech Science Foundation) (declined due to overcommitment)
- DFF (Danish Council for Independent Research), Natural Sciences, Denmark
- DFG (Deutsche Forschungsgemeinschaft) (various grant proposals; Heisenberg fellowships; member of a review panel for a DFG Special Priority Programme "Rapid Adaptation" [SPP 1819/2] in 2018)
- European Research Area for Aging (ERA-AGE2), FLARE program (Future Leaders in Ageing Research in Europe) (Declined)
- European Research Council (ERC) Starting and Consolidator Grants, external reviewer for grants to submitted to the "Evolutionary, Population, and Environmental Biology" (LS8) and "Applied Life Sciences and Non-Medical Biotechnology" (LS9) Panels
- European Science Foundation (ESF) College of Expert Reviewers (2020-date)
- FCT (Fundação para a Ciência e a Tecnologia, I.P.) (Portuguese Science and Technology Fund (invited Panel Member Biological Sciences, 2015 & 2016, declined due to overcommitment)

- FONDECYT (Chilean National Science & Technology Commission) (declined due to overcommitment)
- FWO / ESF (European Science Foundation) Postdoctoral Fellowship Call
- FWO (Fonds Wetenschappelijk Onderzoek - Vlaanderen; Research Foundation - Flanders) (Declined due to overcommitment)
- Greek Ministry of Education, Lifelong Learning and Religious Affairs (Invited but no reviews requested)
- Groningen Institute for Evolutionary Life Sciences (GELIFES), proposals for Ph.D. positions
- Human Frontiers Science Program (HFSP) (declined due to overcommitment)
- Israeli Ministry of Science, Technology & Space (2015, declined due to overcommitment)
- Kentucky Science and Engineering Foundation (2017, declined due to overcommitment)
- Leverhulme Trust, UK
- MacArthur Fellowship, John D. and Catherine T. MacArthur Foundation, USA
- Max Planck Society (Otto Hahn Medal)
- Nathan Shock Center for Excellence in the Biology of Aging (Barshop Institute, San Antonio), USA
- National Science Centre Poland (2020, declined due to overcommitment)
- National Center of Science and Technology Evaluation, Ministry of Education and Science, Astana, Republic of Kazakhstan (Declined)
- NERC (Natural Environment Research Council), UK
- Newnham College, University of Cambridge, Research Fellowship Scheme, Cambridge, UK
- NOW (Netherlands Organisation for Scientific Research), Netherlands
- NSF (National Science Foundation), USA: (i) Processes, Structures and Integrity (PSI) Program, Division of Integrative Organismal Systems; (ii) Population and Evolutionary Processes, Division of Environmental Biology; (iii) Organism-Environment Interactions Program (OEI), Division of Integrative Organismal Systems
- PRESTIGE postdoc program Campus France Agence française pour la promotion de l'enseignement supérieur, l'accueil et la mobilité internationale (2015, declined due to overcommitment)
- Research Into Aging Charity - Help the Aged (New Investigator Award), London, UK
- Royal Society of London, UK (different schemes including Royal Society Fellowship; Royal Society Wolfson Research Merit Award; Dorothy Hodgkin Fellowship; Newton International Fellowship)
- SNSF (Swiss National Science Foundation), Switzerland (various grant proposals; Ambizione and Eccellenza fellowships)
- Southern Methodist University, External mock review for a NIH R15 Grant for the Department of Biological Sciences at Southern Methodist University, Dallas, TX, USA
- Swiss Study Foundation (Schweizerische Studienstiftung), 2018-: member of standing board of assessors of applicants (from 2018-date)
- University of Houston Grant to Enhance and Advance Research (GEAR) Program, USA
- Velux Foundation, Zürich, Switzerland
- Wissenschaftskolleg zu Berlin, College for Life Sciences Fellowship

*EXTERNAL REVIEWER FOR TENURE DECISIONS AND PROFESSORIAL PROMOTIONS, ETC.*

- 2019. University of Montpellier: habilitation à diriger des recherches (HDR).
- 2018. Ecole Normale Supérieure de Lyon: habilitation à diriger des recherches (HDR).

- 2015. Oxford Brookes University, Oxford, UK: promotion to full professorship in biology.
- 2014. Instituto Gulbenkian de Ciência, Oeiras, Portugal: extension review of a group leader.
- 2012. University of California, Irvine, Department of Ecology and Evolutionary Biology: promotion to distinguished professorship.
- 2012. University of Connecticut, Storrs, Department of Allied Health Sciences: tenure review (promotion to associate professor).

#### REVIEWER FOR JOB SEARCH / HIRING COMMITTEES

- 2014. External Assessor, Tenure Track Assistant Professorship Position in Ecological and Evolutionary Genomics, Faculty of Biological and Environmental Sciences, University of Helsinki

### ORGANIZATION OF WORKSHOPS, SYMPOSIA AND CONFERENCES

[39 meetings co-organized]

- 2021: Co-Organizer with Josefa Gonzalez, Martin Kapun, Paul Schmidt, Dmitri Petrov, and Alan Bergland, Workshop *A community-based approach to understanding Drosophila Evolution through Space and Time (DEST)*, held at the 62<sup>nd</sup> Annual *Drosophila* Research Conference, March/April 2021.
- 2020: ESEB Progress Meeting in Evolutionary Biology: "Distangling neutral versus adaptive evolution of inversions", funded by the European Society of Evolutionary Biology (ESEB), co-organizer with Emma Berdan and Kerstin Johannesson, Tjärnö Marine Research Station, Sweden (postponed because of COVID-19).
- 2020: Lead Organizer, 2020 Villars Symposium, "Advances in Epigenetics and Epigenomics", Villars-sur-Ollon, Switzerland, organized by the CUSO doctoral program in Ecology and Evolution (CUSO DPEE), in collaboration with the CUSO Staromics, Microbiology, and Molecular Plant Sciences doctoral programs (postponed because of COVID-19).
- 2020: Co-Organizer with Élio Sucena, Josefa González and Martin Kapun of the 10<sup>th</sup> Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, held at the Instituto Gulbenkian de Ciência, Oeiras, Portugal, February 2020.
- 2020: Lead organizer with Rudolf Rohr, Biology20, Swiss conference of organismal biology, University of Fribourg, February 2020.
- 2019: Invited Member, Scientific Committee, 33<sup>rd</sup> French Annual *Drosophila* Conference, École Normale Supérieure de de Lyon, France.
- 2019: Invited Member, Scientific Committee, 6<sup>th</sup> Congress of the Serbian Genetics Society, Vrnjačka Banja, Serbia.
- 2019: 2019 Fribourg Ecology & Evolution Days: "The Temporal Dynamics of Evolution", lead organizer; co-organized with Daniel Wegmann and Esra Durmaz, September 2019.
- 2019: Member of Organizing Committee, European *Drosophila* Research Conference (EDRC) 2019, Lausanne, Switzerland, 5-8 September 2019, co-organized by Bruno Lemaitre, Bart Deplancke, Brian McCabe, Pavan Ramdya, Maria Cristina Gambetta, Tadeusz Kawecki, Vladimir Katanaev, Fisun Hamaratoglu, Richard Benton, Emi Nagoshi, François Karch, Simon Sprecher, Lukas Neukomm, Roman Arguello, Brian Hollis, Thomas Flatt.
- 2019: Co-Organizer with Josefa González and Martin Kapun of the 9<sup>th</sup> Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, held as a satellite meeting at the 2019 Congress of the European Society for Evolutionary Biology (ESEB), Turku, Finland, August 2019.



- 2019: Co-Organizer with Josefa González and Martin Kapun of the 8<sup>th</sup> Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, Institut de Biologia Evolutiva, Universitat Pompeu Fabra, Barcelona, April 2019.
- 2018: TriLab Meeting Fribourg, workshop of the population genetics labs from Bern, Lausanne and Fribourg, lead organizer; co-organized with Daniel Wegmann, December 2018.
- 2018: Co-Organizer with Nicolas Rode, Josefa González, Martin Kapun and Sara Guirao of the DrosEU Summer School on Adaptation Genomics, Montpellier, France, August 2018. Satellite meeting of the Evolution 2018 Montpellier conference.
- 2018: 2018 *Swiss Drosophila Meeting*, University of Fribourg, June 2018; lead organizer; co-organizer with Simon Sprecher and Boris Egger.
- 2018: Co-Organizer with Omar Rota-Stabelli, Josefa González and Martin Kapun of the 7<sup>th</sup> Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, Fondazione Edmund Mach, San Michele all' Adige, Sala Convitto, Italy, May 2018.
- 2017: Co-Organizer with Josefa González and Martin Kapun of the 6<sup>th</sup> Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, held as a satellite meeting at the 16<sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Groningen, Netherlands, 20 August 2017.
- 2017: Co-Organizer with Josefa González and Martin Kapun of an Information Session about the *European Drosophila Population Genomics Consortium (DrosEU)* and the ESEB STN, 16<sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Groningen, Netherlands, August 2017 [covered in *Science* 357(6356):1083].
- 2017: Co-Organizer with Martin Kapun, Symposium *The Evolutionary Significance of Chromosomal Inversions*, 16<sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Groningen, Netherlands, 20-25 August 2017.
- 2016: Co-Organizer with Élio Sucena, Josefa González and Martin Kapun of the 5<sup>th</sup> Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, held at the Instituto Gulbenkian de Ciência, Oeiras, Portugal, November 2016.
- 2016: Co-Organizer with Tobias Uller (Lund) and Bernhard Voelkl (Oxford), Workshop on *Evolving Plasticity in Natural and Artificial Systems*, Center for Interdisciplinary Research (ZiF - Zentrum für interdisziplinäre Forschung), Bielefeld, Germany, 5-7 September 2016.
- 2016: Co-Organizer with Josefa González and Martin Kapun of the 4<sup>th</sup> Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, Institut de Biologia Evolutiva, Universitat Pompeu Fabra, Barcelona, May 2016.
- 2015: Co-Organizer with Cristina Vieira, Josefa González and Martin Kapun of the 3<sup>rd</sup> Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, University Lyon 1, DOUA campus, Laboratoire Biométrie et Biologie Evolutive, November 2015.
- 2015: Co-Organizer with Paul Schmidt (Philadelphia), Symposium *How to Identify and Test the Loci and Alleles Underlying Adaptation?*, 15<sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Lausanne, Switzerland, 10-14 August 2015.
- 2015: Member of Organizing Committee (main organizers: Kirst King-Jones and Kim Furbo Rewitz), 2015 (2<sup>nd</sup>) *International Insect Hormone Workshop* (formerly: (20<sup>th</sup>) International Ecdysone Workshop), Kolymbari, Crete, Greece.
- 2015: Co-Organizer with Lukas Keller and Marta Manser of "Steve Fest", a symposium in honor of Stephen C. Stearns' major contributions to evolutionary biology, University of Basel, Alte Universität (Rheinsprung), Basel, Switzerland, April 2015.

- 2015: Co-Organizer with Fisun Hamaratoglu of *Swiss Drosophila Meeting*, IDHEAP, University of Lausanne, April 2015.
- 2015: Co-Organizer with Josefa González and Martin Kapun of the 2<sup>nd</sup> Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, Institut de Biologia Evolutiva, Universitat Pompeu Fabra, Barcelona, February 2015.
- 2015-17: Member of Organizing Committee of *BIG (Biology and Integrative Genetics) Seminar Series in Biology*, an initiative of the Faculty of Biology and Medicine, University of Lausanne. Co-organized by Vincent Dion, Ted Farmer, Thomas Flatt, and Sophie Martin.
- 2014: Co-Organizer with Josefa González and Martin Kapun of the 1<sup>st</sup> Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, Institut de Biologia Evolutiva, Universitat Pompeu Fabra, Barcelona, April 2014.
- 2013: Co-Organizer with Richard Benton of *Lausanne Drosophila Meeting*, at the Department of Ecology and Evolution, University of Lausanne, December 2013.
- 2013-15: Member of the Organizing Committee for the 2015 15<sup>th</sup> *ESEB (European Society for Evolutionary Biology) Congress* in Lausanne, Switzerland: responsible for acquisition of conference sponsors, together with N. Alvarez.
- 2013: Co-Organizer with Josefa González and Martin Kapun, Satellite Workshop *Creating an European Drosophila Population Genomics Network*, European *Drosophila* Research Conference (EDRC), Barcelona, Spain, 16-19 October, 2013.
- 2013: Co-Organizer with Josefa González, Satellite Workshop *Creating an European Drosophila Population Genomics Network*, 14<sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Lisbon, Portugal, 19-24 August 2013.
- 2013: Co-Organizer with Bas Zwaan (Wageningen), Symposium *Mechanisms of Trade-Offs*, 14<sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Lisbon, Portugal, 19-24 August 2013.
- 2013: Member of Organizing Committee (main organizer: M. B. O'Connor), *2013 Insect Hormones Workshop (19th International Ecdysone Workshop)*, Minneapolis, USA.
- 2010: Co-Organizer with Christian Schlötterer, Alistair McGregor, and Carolin Kosiol, *2<sup>nd</sup> EvoVienna Meeting*, 4 May 2010, Vienna, Austria.
- 2009: Co-Organizer with Lars Gille, *Departmental Seminar Series*, Department of Biomedical Sciences, Vetmeduni (University of Veterinary Medicine) Vienna.
- 2009: Co-Organizer with Alistair McGregor, *1<sup>st</sup> Vienna Drosophila Meeting*, 26 June 2009, Vienna, Austria.
- 2008: Co-Organizer with Andreas Heyland, Symposium *Molecular Mechanisms Underlying Life History Evolution*, Society for the Study of Evolution (SSE), University of Minnesota, Minneapolis, 20-24 June 2008.

## **DEPARTMENTAL AND UNIVERSITY SERVICE**

- 2021-date: President-elect (head) of Department, Department of Biology, UniFR (as of August 2021).
- 2021: Member of a faculty tenure committee for a tenure-track professor in the Department of Biology, UniFR.
- 2020: Member of a faculty working group for the revision of the PhD regulations, Faculty of Science and Medicine, UniFR.

- 2020-21: Member of a working group discussing the future structure of the Department of Biology, Department of Biology, UniFR.
- 2020: Member of a working group for evaluating the tenure of a lecturer in ecology and evolution,
- 2020: Member of a working group for hiring a metabolomics group leader, Department of Biology, UniFR.
- 2020: Member of a search committee for the succession of a professor in environmental biology in the Department of Biology, UniFR.
- 2020: Member of a search committee for the succession of a professor in plant biology in the Department of Biology, UniFR.
- 2020: Member of two faculty tenure committees for lecturers in the Department of Biology, UniFR.
- 2020-date: Head of the teaching working group of the Department of Biology, UniFR.
- 2019-20: Member of a structural commission for the succession of two professors in the Department of Biology, UniFR.
- 2019-21: Vice Head of Department, Department of Biology, UniFR.
- 2019-21: Head of the Fribourg Graduate School of Life Sciences (FGLS), UniFR.
- 2019-date: Committee for a new university building for the ecology and evolution group of the Department of Biology, UniFR ("commission de bâtisse - laboratoire cantonal).
- 2018: Habilitation committee, habilitation in biology (ecology), UniFR.
- 2018: Library committee of the Faculty of Science, UniFR (*ad hoc* replacement for Sven Bacher).
- 2018-date: Head of the CUSO (Conférence universitaire de Suisse occidentale) Inter-University Doctoral Program in Ecology & Evolution (DPEE) for 5 Swiss universities (Bern, Fribourg, Geneva, Lausanne & Neuchâtel).
- 2017-18: Member of a search committee for a professor in geriatrics/gerontology, Faculty of Science and Medicine, UniFR.
- 2017-date: Representative of the Ecology & Evolution Unit of the Department of Biology, UniFR, in the CUSO (Conférence universitaire de Suisse occidentale) Doctoral Program in Ecology and Evolution (DPEE).
- 2017-19: Member of a structural working group for the succession of two professors in the Department of Biology, UniFR.
- 2017-date: Member of the Faculty Council of the Faculty of Mathematics and Sciences, UniFR.
- 2017-date: Member of the Departmental Committee of the Department of Biology, UniFR.
- 2017-date: Member of the Departmental Council of the Department of Biology, UniFR.
- 2016: Ad hoc panel member (replacing Tadeusz Kawecki) of the PhD Fellowships Committee of the Faculty of Biology and Medicine (FBM), University of Lausanne (UNIL) of the Faculty of Biology and Medicine (FBM), University of Lausanne (UNIL).
- 2015-18: Member of Organizing Committee of BIG (Biology and Integrative Genetics) Seminar Series in Biology, an initiative of the Faculty of Biology and Medicine (FBM), University of Lausanne (UNIL). Co-organized by Vincent Dion (Winship Herr, as of 2016), Ted Farmer, Thomas Flatt (representative of Department of Ecology and Evolution), and Sophie Martin.
- 2013-17: Surrogate Member of the Council of the Faculty of Biology and Medicine (Conseil de la Faculté de Biologie et de Médecine [FBM]), University of Lausanne (UNIL) (Surrogate for Prof. Nicolas Salamin).

- 2013-17: Member of the Faculty Council of the Department of Ecology and Evolution, University of Lausanne.
- 2012: Member of the Educational Working Group *Regulation and Mechanisms* for the new curriculum in Veterinary Medicine, Vetmeduni Vienna.
- 2009-12: Responsible for safety precautions regarding genetically modified organisms (GMO) at the Institute of Population Genetics, Vetmeduni Vienna.
- 2002-04: Ph.D. Student Representative, Faculty Council of the Department of Biology, University of Fribourg.

## **OTHER PROFESSIONAL SERVICE AND ACTIVITIES**

- 2020: Participant in a Roundtable Discussion about Academic Careers, Fribourg Graduate School of Life Sciences (FGLS)
- 2018-date: Representative of the Department of Biology of the University of Fribourg on the Board of the Swiss Zoological Society (SZS)
- 2018-21: DFG Mercator Fellow & Visiting Professorship, Institute for Evolution & Biodiversity, EvoPAD program, University of Münster, Germany
- 2018-date: Head of the CUSO (Conférence universitaire de Suisse occidentale) Inter-University Doctoral Program in Ecology & Evolution (DPEE) for 5 Swiss universities (Bern, Fribourg, Geneva, Lausanne & Neuchâtel)
- 2017: Invited Discussant and Session Chair, Workshop "Towards a Darwinian Framework for Integrating Genetic and Non-Genetic Cues", Falmouth, Cornwall, UK, July 2017.
- 2016-date: Member of Steering Committee, DFG Research Unit *Sociality and the reversal of the fecundity-longevity trade-off*
- 2016: Invited to nominate candidates for the 2017 Kyoto Prize in Basic Sciences by the Inamori Foundation (declined to due to overcommitment)
- 2016-date: Member of Steering Committee of *ESEB (European Society for Evolutionary Biology) Special Topics Network (STN) "The European Drosophila Population Genomics Consortium (DrosEU)";* members: Andrea Betancourt, Josefa González, Mike Ritchie, Bas Zwaan, Thomas Flatt.
- 2015-date: Member of Scientific Advisory Board, Groningen Institute for Evolutionary Life Sciences (GELIFES), University of Groningen
- 2016: Invited Discussant, Lorentz Workshop on Translational Research in Ageing (organized by Eline Slagboom and Bas Zwaan), Lorentz Center, International Center for Workshops in the Sciences, Leiden, Netherlands
- 2014/15: Invited Participant, Workshop on "Heredity in the Postgenomic Era", Institute of Advanced Study Berlin, Wissenschaftskolleg zu Berlin (Wiko), 2 workshops in May 2014 and May 2015.
- 2014: Participant in Panel Roundtable Discussion about the Swiss National Science Foundation (SNF) Professorship Program, at the Life Sciences Switzerland (LS2) 2014 Annual Meeting (4-5 February 2014), University of Lausanne.
- 2013-date: Co-founder and member of the management committee of the European *Drosophila* Population Genomics Consortium (*DrosEU*), together with Josefa González and Martin Kapun.
- 2012: Invited to nominate candidates for the 2013 Kyoto Prize in Basic Sciences by the Inamori Foundation.
- 2012: Consultant / telephone interview for a BBC television documentary on metamorphosis (*Metamorphosis: The Science of Change*).

- 2012: Member of the Focus Working Group *Adaptive Plasticity*, Wissenschaftskolleg zu Berlin (Wiko), Institute for Advanced Study, Berlin, Germany. Convener: Mark Viney; Members: Ricardo Azevedo, Christian Braendle, Thomas Flatt, Jacob Koella, Sarah Reece, Stephen C. Stearns, Mark Viney.
- 2012: Invited Participant, Catalysis Meeting and Workshop *Tracking the biotic response to global climate change through genomic analysis* (organized by Alan Bergland, Dmitri Petrov [both Stanford], and Paul Schmidt [Philadelphia]), at the National Evolutionary Synthesis Center (NESCent), Duke University, Durham, NC, USA, 27-29 April 2012; Participating Member of Research Consortium *Real Time Evolution Consortium: Tracking the tempo and mode of evolution over ecologically relevant temporal and spatial scales*.
- 2004-05: Visiting Scientist with Prof. Neal Silverman, University of Massachusetts (UMass) Medical School, Department of Medicine, Division of Infectious Diseases, Worcester, MA, USA.
- 1998-99: Visiting Scientist with Prof. Richard Shine, School of Biological Sciences, University of Sydney.
- 1998: Participant, Evolutionary Biology Workshop, Guarda, Switzerland (faculty: Nancy Knowlton, John Maynard Smith, Ian Sanders, Ulf Dieckmann, Michael Doebeli).
- 1997-99: Undergraduate Research at University of Basel, Switzerland, with Prof. Michael Doebeli (now Vancouver).
- 1997: Tropical Biology Association (TBA) "Darwin Field Course" in Tropical Biology, Makerere University Biological Field Station (MUBFS) Kibale Forest, Uganda.
- 1997: Participant, Evolutionary Biology Workshop, Guarda, Switzerland (faculty: Nancy Knowlton, Jeremy Jackson, David Haig, John Maynard Smith, Res Erhardt, Stephen C. Stearns).
- 1997-99: Undergraduate Research at University of Basel, Switzerland, with Prof. Wolfgang W. Weisser (now Munich).
- 1994: Course in Field Herpetology, Champex, Valais, Switzerland (organized by the Société Hérpétologique de France).
- 1993-95: Collaborator, KARCH (Swiss Coordination Center for Conservation of Reptiles and Amphibians), Natural History Museum Bern, Switzerland.
- 1992-95: Collaborator, Official Cantonal Survey of Reptiles, Canton Solothurn, Switzerland.
- 1989-90: Research Associate with Dr. Beat Schätti, Curator of Department of Herpetology and Ichthyology, Museum of Natural History, Geneva, Switzerland (work on systematics and taxonomy of Ecuadorian *Bothrops asper* and *Bothrops atrox*; Serpentes: Viperidae: Crotalinae).

## MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- Society for Molecular Biology & Evolution (SMBE)
- Society for the Study of Evolution (SSE)
- American Society of Naturalists (ASN)
- European Society for Evolutionary Biology (ESEB)
- Genetics Society of America (GSA)
- Swiss Zoological Society (SZS)
- Junior European *Drosophila* Investigators (JEDI)
- German Zoological Society (Deutsche Zoologische Gesellschaft - DZG)
- Naturforschende Gesellschaft des Kantons Solothurn (NFGS)

- Swiss Society for Aging Research (SSFAR)

## **MEDIA COVERAGE, INTERVIEWS, POPULAR ARTICLES, AND PUBLIC OUTREACH (SELECTION)**

- "Long Live the Queen", popular article by Yao-Hua Law, *Science*, 25 March, 2021; <https://doi.org/10.1126/science.371.6536.1302> (interview with Thomas Flatt and other researchers on aging research in social insects and *Drosophila*).
- "Wie die Drosophila Europa im Flug eroberte" («How Drosophila Conquered Europe»), press release, University of Fribourg, August 2020; also see: «Les mouches du vinaigre évoluent vite», *La Liberté* newspaper, 8 August 2020 [press coverage of Kapun *et al.* 2020 in *Mol. Biol. Evol.*]
- "In Vivo", public outreach event (scientific "speed dating"; discussing evolutionary biology questions with the public), Ancienne Gare, Fribourg, 7 February 2020
- "Vieillir - C'était (pas) mieux avant?", Cafés scientifiques de l'Université de Fribourg, public round table discussion on human aging and longevity, Nouveau Monde, Esplanade de l'Ancienne-Gare, Fribourg, 15 January 2020
- Radio Fribourg, Le Grand Matin, "Vieillir - c'était mieux avant?", Café Scientifique au Nouveau-Monde de Fribourg, 15 January 2020 [radio interview with Thomas Flatt and Judith Camenzind about human aging]
- "Das Alter ist kein Problem, sondern eine Tatsache" ("Age is not a problem but a fact"), *Universitas - Das Magazin der Universität Freiburg, Schweiz*, 02/2019/20, p. 54-56, article by Astrid Tomczak-Plewka [interview with Thomas Flatt and Judith Camenzind about aging]
- "Longevity Linked to Proteins That Calm Overexcited Neurons", *Quanta Magazine*, November 26, 2019, by Veronique Greenwood [popular science article on paper by Zullo *et al.* 2019 in *Nature* and interview with Thomas Flatt on this paper]
- "Se soigner avec Darwin", by Pascal Fleury, *La Liberté, Quotidien Roman* édité à Fribourg, 1 October 2019 (no. 1, 149 année, page 3) [newspaper article on Darwinian medicine and interview with Thomas Flatt]
- "Seeanemonen und darwinsche Dämonen", *Universitas - Das Magazin der Universität Freiburg, Schweiz*, 01/2019/20, p. 38-40, article by R. Fischer [article based on immortality and the evolution of aging]
- "A single gene determines whether a fly has a good sense of sight or a good sense of smell", *ScienceDaily*, 22 August 2019 ([www.sciencedaily.com/releases/2019/08/190822141950.htm](http://www.sciencedaily.com/releases/2019/08/190822141950.htm)), [coverage of Ramaekers *et al.* 2019 in *Developmental Cell*]; also see [https://www.eurekalert.org/pub\\_releases/2019-08/cp-asm081519.php](https://www.eurekalert.org/pub_releases/2019-08/cp-asm081519.php)
- "How organisms evolve towards a longer life", news item by the Research Promotion Service of the University of Fribourg, published online 28 November 2018: <https://www3.unifr.ch/research/en/news-agenda/news/20323/> [text on and interview with Thomas Flatt about the research of Fabian *et al.* 2018 in *Evolution Letters*]
- *Evolution Letters* Editor's Blog: "Unravelling the secrets of a long life", published online 12 November 2018: <https://evolutionletters.wordpress.com/2018/11/12/unravelling-the-secrets-of-a-long-life/> [interview with Thomas Flatt about the research of Fabian *et al.* 2018 in *Evolution Letters*]
- "Hat sich Darwin geirrt?", *Universitas - Das Magazin der Universität Freiburg, Schweiz*, 04/2017/2018, p. 38, article by B. Meyer [article based on an interview of T. Flatt about the importance of epigenetic inheritance in evolution]
- "Supergenes Drive Evolution", *Science* 357(6356):1083 [coverage of the ESEB 2017 Groningen symposium on inversions and supergenes organized by Martin Kapun and Thomas Flatt]

- "Why Do We Age?" ("Perché s'invecchia?"; segment: "L'economia dell'evoluzione"), Swiss Italian TV (Radiotelevisione Svizzera [RSI La 1]), TV science show "Il giardino di Albert" ("Albert's garden"), 5 February 2017 [on *Drosophila* aging research by the Flatt lab at University of Lausanne]
- "Who wants to live forever?", *Horizons* (Swiss magazine for scientific research, published by the Swiss National Science Foundation), issue 105, June 2015, p. 36-37, by S. Koechlin [on *Drosophila* aging research by the Flatt lab at University of Lausanne]
- "Die Evolution der Alterung", popular article by Thomas Flatt, *Pipette - Swiss Laboratory Medicine, Magazine of the Swiss Union of Laboratory Medicine* (www.sulm.ch) Nr. 1, February 2014
- "The Fountain of Youth from a Petri Plate? News from Molecular Aging Research" (In German, "Der Jungbrunnen aus der Petrischale? Neues aus der molekularen Altersforschung"), *Austrian Radio OE1* (ORF), Radio Show "Dimensionen - Die Welt der Wissenschaft, 13 November 2014: <http://oe1.orf.at/programm/388934>
- "Sheep Study Shows Rams With Big Horns Get The Ewe But Die Young", *Science News*, by Elizabeth Pennisi, posted: 08/23/2013 8:17 am EDT [on a paper by Johnston *et al.* 2013 in *Nature*]
- "Evolution: New Understandings of How Populations Change Over Time", *ScienceDaily*, 19 October 2012, available online at: <http://www.sciencedaily.com/releases/2012/10/121019071417.htm> [on Orozco-terWengel *et al.* 2012 in *Molecular Ecology*]
- "Genanpassungen sind kein Zufall", *science.ORF.at*, 19 October 2012, available online at: <http://science.orf.at/stories/1706591/> [on Orozco-terWengel *et al.* 2012 in *Molecular Ecology*]
- "Directing change: how do they do it?", *Vetmeduni Vienna Press Release*, 19 October 2012, available at: <http://www.vetmeduni.ac.at/en/research/research-output/press-releases/fly-adapt-temp/> [on Orozco-terWengel *et al.* 2012 in *Molecular Ecology*]
- "Fountain of Youth (in Bees): Acting Younger", *Discovery News*, July 2012. [Commentary by T. Flatt on Baker *et al.* 2012, *Experimental Gerontology*, DOI: 10.1016/j.exger.2012.05.011]
- "Young flies cannibalize the plump", *Science News*, Published online 10 July 2012 [Commentary by T. Flatt on R. Vijendravarma, S. Narasimha and T. Kawecki. Evolution of predatory cannibalism in *Drosophila melanogaster*. Evolution Ottawa: 1st Joint Congress on Evolutionary Biology, July 7, 2012. Ottawa, Canada]
- "Research Exchange at the Institute of Population Genetics" (In German, "Gelebter Forschungsaustausch am Institut für Populationsgenetik"), *Online News Vetmeduni Vienna*, 25/01/2012 and *Vetmed Magazin*, 01/12, p. 4 [on T. Flatt's sabbatical at the Wissenschaftskolleg zu Berlin, Institute of Advanced Study]
- "On flies and humans" (In German, "Von Fliegen und Menschen"), *Vetmed Magazin*, 01/2011, p. 6-7 [on the Institute of Population Genetics and the Flatt Group]
- "Flatt Group - Aging Research with Fruitflies at the Vetmeduni Vienna" (In German, "Flatt Group - Altersforschung mit Fruchtfliegen an der Vetmeduni Wien"), *Brain Power Austria Newsletter* (4/2010), Brain Power Austria, Austrian Research Promotion Agency (FFG) [on research in the Flatt Group]
- "Dietary restriction: standing up for sirtuins", by Baur *et al.*, *Science*, 2010 Aug 27; 329 (5995):1012-1013 [on Flatt *et al.* 2008 in *PNAS*]
- "Sex accelerates aging" (In German, "Sex beschleunigt Alterung"), *Die Presse* (Sunday edition), Vienna, 23 May 2010, page 24 (available online at [diepresse.com](http://diepresse.com)) [on survival costs of reproduction and research in the Flatt Group]
- "Bees forage with their guts", *Science News* (Published online 1 April 2010) [Commentary by T. Flatt on Wang *et al.*, 2010, *PLoS Genetics* 6(4):e1000896]

- "Onto aging" (In German, "Dem Altern auf der Spur"), interview with Brain Power Austria, Austrian Research Promotion Agency (FFG), 17 February 2010, available at: [http://www.brainpower-austria.at/incontent/sites/2/DE/t\\_column2\\_2363.asp](http://www.brainpower-austria.at/incontent/sites/2/DE/t_column2_2363.asp) [on research in the Flatt Group]
- Press breakfast, New Year's reception, University of Veterinary Medicine Vienna, 22 January 2010 [on the Institute of Population Genetics]
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