

THOMAS FLATT

DEPARTMENT OF BIOLOGY
 UNIVERSITY OF FRIBOURG
 CHEMIN DU MUSÉE 10
 CH-1700 FRIBOURG
 SWITZERLAND

(OFFICE: CHEMIN DU MUSÉE 15 [PER23], ROOM 101)

TELEPHONE (DIRECT): +41 26 300 88 33

TELEPHONE (SECRETARY): +41 26 300 88 50

thomas.flatt@unifr.ch

Web: <http://www3.unifr.ch/bio/en/groups/flatt>

ORCID ID: orcid.org/0000-0002-5990-1503

POSITIONS

- 2018-21: **DFG Mercator Fellow & Visiting Professor**, Institute for Evolution & Biodiversity, EvoPAD program, University of Münster, Germany
- 2018-: **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).

ACADEMIC SERVICE, HONORS, AND FELLOWSHIPS

- 2023-: Delegate of SNSF NRC Division III on Review Panel of NCCR Microbiomes
- 2022-: Elected Member, National Research Council, Swiss National Science Foundation (SNSF)

- 2022-: Member, SNSF Evaluation Panel for Postdoc Mobility Biology
- 2022-: Member, Steering Committee, CUSO Transversal Skills Doctoral Program
- 2021-23: Head of Department, Department of Biology, University of Fribourg
- 2021-27: Associate Editor, *Proceedings of the Royal Society of London B* (2 x 3 years)
- 2020-22: Member, European Science Foundation (ESF) College of Expert Reviewers
- 2020-22: Associate Editor, *Evolution* (2nd 3-year 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 and Visiting Professorship, EvoPAD Program, Institute for Evolution & Biodiversity, University of Münster, Germany
- 2018-22: Member, Steering Committee, CUSO Ecology and Evolution Doctoral Program
- 2018-21: Head of CUSO (Conférence universitaire de Suisse occidentale) Inter-University Doctoral Program in Ecology and Evolution (DPEE) for 5 western Swiss universities (Bern, Fribourg, Geneva, Lausanne & Neuchâtel)
- 2018-22: Member, Board of Assessors, Swiss Study Foundation
- 2016-18: Associate Editor, *Evolution* (1st term)
- 2016-20: Associate Editor, *Ecology and Evolution*
- 2016-22: Member, Reviewing Board of *Peer Community in Evolutionary Biology*
- 2016-18: Member, 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-: Member, Scientific Advisory Board, Groningen Institute for Evolutionary Life Sciences (GELIFES), University of Groningen
- 2013-: Co-founder and co-leader, 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)
- 2011-22: Contributing Member, *Faculty of 1000*, Developmental Biology Faculty, Aging Section
- 2010-16: Deciding Editor, *Journal of Evolutionary Biology*
- 2010-22: 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

Evolutionary biology, especially genetics and genomics of adaptation; population genetics; genetics of fitness components; life-history evolution and trade-offs; clines; spatially and temporally varying selection; balancing selection in general; climate adaptation; chromosomal inversion polymorphisms; evolution and mechanisms of aging and longevity; experimental evolution.

PUBLICATIONS

- 108 publications [97 articles, 10 book chapters, 1 edited book]
 - *h*-index: 46 (8732 citations; <http://scholar.google.ch/citations?user=hnOIPdEAAA&hl=en>)
 - ORCID ID: orcid.org/0000-0002-5990-1503
- [109] Hoedjes, K. M., Grath, S., Posnien, N., Ritchie, M. G., Schlötterer, C., Abbott, Jessica K., Almudi, I., Coronado-Zamora, M., Durmaz Mitchell, E., **Flatt, T.**, Fricke, C., Glaser-Schmitt, A., González, J., Holman, L., Kankare, M., Lenhart, B., Orenge, D. J., Snook, R. S., Yilmaz, V. M., and L. Yusuf. 2023. From whole bodies to single cells: a guide to transcriptomic approaches for ecology and evolutionary biology. *Molecular Ecology*, *in review*.
- [108] Rodrigues, M.A., Dauphin-Villemant, C., Paris, M., Kapun, M., Durmaz Mitchell, E., Kerdaffrec, E., and **T. Flatt**. 2023. Germline proliferation trades off with lipid metabolism in *Drosophila*. *Evolution Letters*, in press. <https://doi.org/10.1093/evlett/grad059>
- [107] Berdan, E.L.*, Barton, N.H., Butlin, R., Charlesworth, B., Faria, R., Fragata, I., Gilbert, K.J., Jay, P., Kapun, M., Lotterhos, K.E., Mérot, C., Durmaz Mitchell, E., Pascual, M., Peichel, C.L., Rafajlović, M., Westram, A.M., Schaeffer, S.W.*, Johannesson, K.*, and **T. Flatt*** 2023. How chromosomal inversions reorient the evolutionary process. [*co-corresponding authors]. *Journal of Evolutionary Biology*, in press. <http://doi.org/10.1111/jeb.14242>
- [106] Santos, J., Matos, M., **Flatt, T.**, and I.M. Chelo. 2023. Microbes are potential key players in the evolution of life histories and aging in *Caenorhabditis elegans*. *Ecology and Evolution* 13(9):e10537. <https://doi.org/10.1002/ece3.10537>
- [105] Kapun, M.*, Durmaz Mitchell, E., Kawecki, T.J., Schmidt, P., and **T. Flatt*** 2023. An Ancestral Balanced Inversion Polymorphism Confers Global Adaptation. [*co-corresponding authors]. *Molecular Biology and Evolution* 40(6):msad118. <https://doi.org/10.1093/molbev/msad118>
- [104] Rau, V., **Flatt, T.**, and J. Korb. 2023. Remoulding of dietary effects on the fecundity / longevity trade-off in a social insect. *BMC Genomics* 24:244. <https://doi.org/10.1186/s12864-023-09335-z>
- [103] Hoedjes, K. M.*, Kostic, H., **Flatt, T.***, and L. Keller*. 2023. A single nucleotide variant in the PPAR γ -homolog *Eip75B* affects fecundity in *Drosophila*. [*co-corresponding authors]. *Molecular Biology and Evolution* 40(2):msad018. <https://doi.org/10.1093/molbev/msad018>
- [102] Hoedjes, K. M.*, Kostic, H., Keller, L.*, and **T. Flatt***. 2022. Natural alleles at the *Doa* locus underpin evolutionary changes in *Drosophila* lifespan and fecundity. [*co-corresponding authors]. *Proceedings of the Royal Society of London B* 289:20221989. <https://doi.org/10.1098/rspb.2022.1989>
- [101] Berdan, E. L., **Flatt, T.**, Kozak, G. M., Lotterhos, K. E., and B. Wielstra. 2022. Genomic architecture of supergenes: Connecting form and function. *Philosophical Transactions of the Royal Society of London B* 377:20210192. <https://doi.org/10.1098/rstb.2021.0192>
- [100] Berdan, E. L., Blanckaert, A., Butlin, R., **Flatt, T.**, Slotte, T., and B. Wielstra. 2022. Mutation accumulation opposes polymorphism: Supergenes and the curious case of balanced lethals.

Philosophical Transactions of the Royal Society of London B 377:20210199.

<https://doi.org/10.1098/rstb.2021.0199>

- [99] Hoffmann, A.A. *, and **T. Flatt***. 2022. The Rapid Tempo of Adaptation. [*equal contribution]. ***Science*** 375:1226-1227. <https://doi.org/10.1126/science.abo1817>
- [98] 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*** 67:83-103. <https://doi.org/10.1146/annurev-ento-061621-064341>
- [97] Nunez, J.C.B., Margot, P., Machado, H. E., Bogaerts, M., Gonzalez, J., **Flatt, T.**, Coronado, M., Kapun, M., Schmidt, P., Petrov, D.A., and A. O. Bergland. 2021. Note: Updating the metadata of four misidentified samples in the DrosRTEC dataset. Published as a non-peer-reviewed preprint: <https://www.biorxiv.org/content/10.1101/2021.01.26.428249v1>
- [96] Rodrigues, M.A., Merckelbach, A., Durmaz, E., Kerdaffrec, E., and **T. Flatt**. 2021. Transcriptomic Evidence for a Trade-off between Germline Proliferation and Immunity in *Drosophila*. ***Evolution Letters*** 5:644-656. <https://doi.org/10.1002/evl3.261>
- [95] 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-Ruiz, 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., Alatortsev, 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*** 38:5782-5805. [featured on cover]. <https://doi.org/10.1093/molbev/msab259>
- [94] 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. A. Petrov. 2021. Broad geographic sampling reveals the shared basis and environmental correlates of seasonal adaptation in *Drosophila*. ***eLife*** 2021;10:e67577. <https://doi.org/10.7554/eLife.67577>
- [93] Harrison, M.C., Jaimes, L.M., Rodrigues, M.A., **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*** 13(6). <https://doi.org/10.1093/gbe/evab093>
- [92] Charlesworth, B., and **T. Flatt**. 2021. On the Fixation or Non-Fixation of Inversions Under Epistatic Selection. ***Molecular Ecology*** 30:3896-3897. <https://doi.org/10.1111/mec.16026>
- [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*** 30:2817-2830. <https://doi.org/10.1111/mec.15939>
- [90] Wallace, M., Coffman, K.A., Gilbert, C., Ravindran, S., Albery, G.F., Argyridou, E., Bellosta, P., Betancourt, A., Colinet, H., Eric, K., Glaser-Schmitt, A., Grath, S., Jelic, M., Kankare, M., Kozeretska, I., Loeschcke, V., Montchamp-Moreau, C., Ometto, L., Onder, B.S., Orengo, D.J., Parsch, J., Pascual, M., Patenkovic, A., Puerma, E., Ritchie, M.G., Rota-Stabelli, O., Schou, M.F., Serga, S.V., Stamenkovic-Radak, M., Tanaskovic, M., Veselinovic, M.S., Vieira, J., Vieira, C.P., Kapun, M., **Flatt, T.**, González, J., Staubach, F., and D. J. Obbard. 2021. The discovery, distribution and diversity of

- DNA viruses associated with *Drosophila melanogaster* in Europe. **Virus Evolution** 7(1):veab031. <https://doi.org/10.1093/ve/veab031>.
- [89] Korb, J., Meusemann, K., Aumer, D., Bernadou, A., Elsner, D., Feldmeyer, B., Foitzik, S., Heinze, J., Libbrecht, R., Lin, S., Majoe, M., Monroy Kuhn J.M., Nehring, V., Negroni, M., Paxton, R., Séguret, A., Stoldt, M., **T. Flatt** and the So-Long consortium. 2021. Comparative Transcriptomic Analysis of the Mechanisms Underpinning Ageing and Fecundity in Social Insects. **Philosophical Transactions of the Royal Society of London B** 376 (1823): 20190728. <https://doi.org/10.1098/rstb.2019.0728> [Also see coverage in *Science*, 25 March, 2021, <https://doi.org/10.1126/science.371.6536.1302>].
- [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>
- [86] Kapun, M., Barrón, M.G., Staubach, F., Vieira, J., Obbard, D.J., Wiberg, R. A. W., Goubert, C., Rota-Stabelli, O., Kankare, M., Haudry, A., Waidele, L., Kozeretska, I., Pasyukova, E.G., Loeschcke, V., Pascual, M., Vieira, C.P., Serga, S., Montchamp-Moreau, C., Abbott, J., Gibert, P., Porcelli, D., Posnien, N., Grath, S., Sucena, E., Bergland, A.O., Garcia Guerreiro, M.P., Onder, B.S., Argyridou, E., Guio, L., Schou, M.F., Deplancke, B., Vieira, C., Ritchie, M.G., Zwaan, B.J., Tauber, E., Orengo, D.J., Puerma, E., Aguadé, M., Schmidt, P.S., Parsch, J., Betancourt, A.J., **Flatt, T.***, and J. González*. 2020. Genomic analysis of European *Drosophila melanogaster* populations reveals longitudinal structure, continent-wide selection, and unknown DNA viruses. [*co-corresponding authors]. **Molecular Biology and Evolution** 37:2661-2678. <https://doi.org/10.1093/molbev/msaa120> [designated MBE "Emerging Classic" 2022]
- [85] Waldvogel, A.-M., Feldmeyer, B., Exposito-Alonso, M., Rellstab, C., Kofler, R., Mock, T., Schmid, K., Schmitt, I., Bataillon, T., Savolainen, O., Bergland, A., **Flatt, T.**, Guillaume, F., and M. Pfenninger. 2020. Evolutionary genomics can improve prediction of species' responses to climate change. **Evolution Letters** 4:4-18. <https://doi.org/10.1002/evl3.154>
- [84] **Flatt, T.** 2020. Life-History Evolution and the Genetics of Fitness Components in *Drosophila melanogaster*. **Genetics** 214:3-48. <https://doi.org/10.1534/genetics.119.300160>
- [83] **Flatt, T.** 2019. How flies turn food into progeny. **eLife** 2019; e51289. <https://doi.org/10.7554/eLife.51289>
- [82] Hoedjes, K., van den Heuvel, J., Kapun, M., Keller, L., **Flatt, T.***, and B.J. Zwaan*. 2019. Distinct Genomic Signals of Lifespan and Life History Evolution in Response to Postponed Reproduction and Larval Diet in *Drosophila*. [*co-corresponding authors]. **Evolution Letters** 3:598-609. <https://doi.org/10.1002/evl3.143>
- [81] Ramaekers, A., Weinberger, S., Claeys, A., Kapun, M., Yan, J., Wolf, R., **Flatt, T.**, Buchner, E., and B.A. Hassan. 2019. Altering the temporal regulation of one transcription factor drives evolutionary trade-offs between head sensory organs. **Developmental Cell** 50:780-792. <https://doi.org/10.1016/j.devcel.2019.07.027> [commentary by I. Almudi and A.P. McGregor. 2019. Sensory Organ Size Evolution: A View from *Drosophila*. *Developmental Cell* 50:673-674]
- [80] Durmaz, E., Rajpurohit, S., Betancourt, N., Fabian, D.K., Kapun, M., Schmidt, P.*, and **T. Flatt*** 2019. A clinal polymorphism in the insulin signaling transcription factor *foxo* contributes to life-history adaptation in *Drosophila* [*co-corresponding authors]. **Evolution** 73:1774-1792. <https://doi.org/10.1111/evo.13759> [commentary by O. El-Deeb. 2019. Digest: A clinal polymorphism and life-history adaptations in *Drosophila*. *Evolution* 73:2026-2027]

- [79] May, T., van den Heuvel, J., Doroszuk, A., Hoedjes, K., **Flatt, T.**, and B. J. Zwaan. 2019. Adaptation to developmental diet influences the response to selection on age at reproduction in the fruit fly. **Journal of Evolutionary Biology** 32:425-437. <https://doi.org/10.1111/jeb.13425>
- [78] Colchero, F., Jones, O. R., Conde, D.A., Hodgson, D., Zajitschek, F., Schmidt, B. R., Malo, A. F., Alberts, S.C., Becker, P.H., Bouwhuis, S., Bronikowski, A.M., De Vleeschouwer, K.M., Delahey, R.J., Dummermuth, S., Fernández-Duque, E., Frisenvænge, J., Hesselsøe, M., Larson, S., Lemaître, J.-F., McDonald, J., Miller, D.A.W., O'Donnell, C., Packer, C., Raboy, B.E., Reading, C.J., Wapstra, E., Weimerskirch, H., While, G. M., Baudisch, A., **Flatt, T.**, Coulson, T., and J.-M. Gaillard. 2019. The diversity of population responses to environmental change. **Ecology Letters** 22: 342-353. <https://doi.org/10.1111/ele.13195>
- [77] Kapun, M., and **T. Flatt**. 2019. The adaptive significance of chromosomal inversion polymorphisms in *Drosophila melanogaster*. **Molecular Ecology** 28:1263-1282. <https://doi.org/10.1111/mec.14871>
- [76] Fabian, D.K., Garschall, K., Klepsatel, P., Santos-Matos, G., Sucena, E., Kapun, M., Lemaitre, B., Schlötterer, C., Arking, R., and **T. Flatt**. 2018. Evolution of longevity improves immunity in *Drosophila*. **Evolution Letters** 2:567-579. <https://doi.org/10.1002/evl3.89>
- [75] **Flatt, T.**, and L. Partridge. 2018. Horizons in the Evolution of Aging. **BMC Biology** 16(1):93. <https://doi.org/10.1186/s12915-018-0562-z> (reprinted in: The New Science of Healthy Aging, *Scientific American*, e-book, 2019)
- [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>
- [73] **Flatt, T.**, and G.P. Wagner. 2018. Canalization and Robustness. **Oxford Bibliographies in Evolutionary Biology**. <https://doi.org/10.1093/obo/9780199941728-0109>
- [72] Garschall, K., and **T. Flatt**. 2018. The interplay between immunity and aging in *Drosophila*. **F1000Research** 2018, 7(F1000 Faculty Rev):160. <https://doi.org/10.12688/f1000research.13117.1>
- [71] Andreatta, G., Kyriacou, C.P., **Flatt, T.*** and R. Costa*. 2018. Aminergic Signaling Control of Ovarian Dormancy in *Drosophila*. **Scientific Reports** 8:2030, 1-14. [*co-corresponding authors] <https://doi.org/10.1038/s41598-018-20407-z>
- [70] Hoedjes, K.M., Rodrigues, M.A., and **T. Flatt**. 2017. Amino Acid Modulation of Lifespan and Reproduction in *Drosophila*. **Current Opinion in Insect Science**, 23:118-122. <https://doi.org/10.1016/j.cois.2017.07.005>
- [69] Kubrak, O., Nylin, S., **Flatt, T.**, Nässel, D., and O. Leimar. 2017. Adaptation to fluctuating environments in a selection experiment with *Drosophila melanogaster*. **Ecology and Evolution** 7:3796-3807. <https://doi.org/10.1002/ece3.2965>
- [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>
- [67] Rodrigues, M.A., and **T. Flatt**. 2016. Endocrine uncoupling of the trade-off between reproduction and somatic maintenance in eusocial insects. **Current Opinion in Insect Science** 16:1-8. <https://doi.org/10.1016/j.cois.2016.04.013>
- [66] Kapun, M., Schmidt, C., Durmaz, E., Schmidt, P.S., and **T. Flatt**. 2016. Parallel effects of the inversion *In(3R)Payne* on body size across the North American and Australian clines in *Drosophila melanogaster*. **Journal of Evolutionary Biology** 29:1059-1072. <https://doi.org/10.1111/jeb.12847>

- [65] Kapun, M., Fabian, D.K., Goudet, J., and **T. Flatt**. 2016. Genomic Evidence for Adaptive Inversion Clines in *Drosophila melanogaster*. **Molecular Biology and Evolution** 33:1317-1336. <https://doi.org/10.1093/molbev/msw016>
- [64] **Flatt, T.** 2016. Genomics of clinal variation in *Drosophila*: disentangling the interactions of selection and demography. **Molecular Ecology** 25:1023-1026. <https://doi.org/10.1111/mec.13534>
- [64] Fuellen, G., Schofield, P.N., **Flatt, T.**, Schulz, R.-J., Boege, F., Kraft, K., Rimbach, G., Ibrahim, S., Tietz, A., Schmidt, C., Köhling, R., Simm, A. 2016. Living long and well: prospects for a personalized approach to the medicine of ageing. **Gerontology** 62:409-416. <https://doi.org/10.1159/000442746>
- [62] **Flatt, T.** 2015. Organ plasticity: Paying the costs of reproduction. **eLife** 2015;4:e09556. <https://doi.org/10.7554/eLife.09556>
- [61] Fabian, D. K., Lack, J. B., Mathur, V., Schlötterer, C., Schmidt, P.S., Pool, J.E, and **T. Flatt**. 2015. Spatially varying selection shapes life history clines among populations of *Drosophila melanogaster* from sub-Saharan Africa. **Journal of Evolutionary Biology** 28:826-840. <https://doi.org/10.1111/jeb.12607>
- [60] **Flatt, T.** 2014. Plasticity of Lifespan – A Reaction Norm Perspective. 2014. **Proceedings of the Nutrition Society** 73:532-542. <https://doi.org/10.1017/S0029665114001141>
- [59] Klepsatel, P., Galikova, M, Huber, C.D., and **T. Flatt**. 2014. Similarities and differences in altitudinal versus latitudinal variation for morphological traits in *Drosophila melanogaster*. **Evolution** 68:1385-1398. <https://doi.org/10.1111/evo.12351>
- [58] Kapun, M., van Schalwyk, H., McAllister, B., **Flatt, T.**, and C. Schlötterer. 2014. Inference of chromosomal inversion dynamics from Pool-Seq data in natural and laboratory populations of *D. melanogaster*. **Molecular Ecology** 23:1813-1827 [Also see commentary by Navarro and Faria. Pool and conquer: new tricks for (c)old problems. *Molecular Ecology* 23:1653-1655]. <https://doi.org/10.1111/mec.12594>
- [57] Klepsatel, P., Galikova, M., De Maio, N., Huber, C., Schlötterer, C., and **T. Flatt**. 2013. Variation in Thermal Performance and Reaction Norms Among Populations of *Drosophila melanogaster*. **Evolution** 67:3573-3587. <https://doi.org/10.1111/evo.12221>
- [56] **Flatt, T.**, Amdam, G.V., Kirkwood, T.B.L., and S. W. Omholt. 2013. Life-History Evolution and the Polyphenic Regulation of Somatic Maintenance and Survival. **Quarterly Review of Biology** 88:185-218. <https://doi.org/10.1086/671484>
- [55] Alcedo, J.,* **Flatt, T.**,* and Pasyukova, E.* 2013. The Role of the Nervous System in Aging and Longevity. **Frontiers in Genetics** 4:124 [*Equal contribution, co-corresponding authors]. <https://doi.org/10.3389/fgene.2013.00124>
- [54] Rus, F., **Flatt, T.**, Tong, M., Kleino, A., Aggarwal, K., Okuda, K., Yates, E., Tatar, M., and N. Silverman. 2013. Ecdysone Triggered PGRP-LC Expression Controls *Drosophila* Innate Immunity. **EMBO Journal** 32:1626-1638. <https://doi.org/10.1038/emboj.2013.100>
- [53] Klepsatel, P., Galikova, M., De Maio, N., Ricci, S., Schlötterer, C., and **T. Flatt**. 2013. Reproductive and post-reproductive life history of wild-caught *Drosophila melanogaster*. **Journal of Evolutionary Biology** 26:1508-1520. <https://doi.org/10.1111/jeb.12155>
- [52] Alcedo, J.,* **Flatt, T.**,* and Pasyukova, E.* 2013. Neuronal Inputs and Outputs of Aging and Longevity. **Frontiers in Genetics** 4:71 [*Equal contribution, co-corresponding authors]. <https://doi.org/10.3389/fgene.2013.00071>

- [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>
- [50] Fabian, D.K., Kapun, M., Nolte, V., Kofler, R., Schmidt, P.S., Schlötterer, C. and **T. Flatt**. 2012. Genome-wide patterns of latitudinal differentiation among populations of *Drosophila melanogaster* from North America. **Molecular Ecology** 21:4748-4769. <https://doi.org/10.1111/j.1365-294X.2012.05731.x>
- [49] **Flatt, T.** 2012. A new definition of aging? **Frontiers in Genetics** 3:148. [Commentary on (36) Rose et al. 2012, see below]. <https://doi.org/10.3389/fgene.2012.00148>
- [48] Rose, M.R., **Flatt, T.**, Graves, J.L., Greer, L., Martinez, D.E., Matos, M.M., Mueller, L.D., Shmookler Reis, R.J., and P. Shahrestani. 2012. What is aging? **Frontiers in Genetics** 3:134. <https://doi.org/10.3389/fgene.2012.00134>
- [47] Orozco-terWengel, P., Kapun, M., Nolte, V., Kofler, R., **Flatt, T.**, and C. Schlötterer. 2012. Adaptation of *Drosophila* to a novel laboratory environment reveals temporally heterogeneous trajectories of selected alleles. **Molecular Ecology** 21:4931-4941 [featured on cover; also see commentary by Burke and Long. 2012. What paths do advantageous alleles take during short-term evolutionary change? *Molecular Ecology* 21:4913-4916]. <https://doi.org/10.1111/j.1365-294X.2012.05673.x>
- [46] Fabian, D.K., and **T. Flatt**. 2012. Life history evolution. **Nature Education Knowledge** 3(10):24. <https://www.nature.com/scitable/knowledge/library/life-history-evolution-68245673>
- [45] **Flatt, T.**, Heyland, A., and S.C. Stearns. 2011. What Mechanistic Insights Can or Cannot Contribute to Life History Evolution - An Exchange Between Stearns, Heyland, and Flatt. Chapter 28, Pp. 375-379, in **Flatt, T.** and Heyland, A. (Eds.), *Mechanisms of Life History Evolution. The Genetics and Physiology of Life History Traits and Trade-Offs*. Oxford University Press, Oxford, UK. (see link below)
- [44] **Flatt, T.**, and A. Heyland. 2011. Life History Integration and Trade-Offs. Part 6, Pp. 267-269, in **Flatt, T.** and Heyland, A. (Eds.): *Mechanisms of Life History Evolution. The Genetics and Physiology of Life History Traits and Trade-Offs*. Oxford University Press, Oxford, UK. (see link below)
- [43] **Flatt, T.**, and A. Heyland. 2011. Life History Plasticity. Part 5, Pp. 219-220, in **Flatt, T.** and Heyland, A. (Eds.): *Mechanisms of Life History Evolution. The Genetics and Physiology of Life History Traits and Trade-Offs*. Oxford University Press, Oxford, UK. (see link below)
- [42] **Flatt, T.**, and A. Heyland. 2011. Lifespan, Aging and Somatic Maintenance. Part 4, Pp. 169-170, in **Flatt, T.** and Heyland, A. (Eds.): *Mechanisms of Life History Evolution. The Genetics and Physiology of Life History Traits and Trade-Offs*. Oxford University Press, Oxford, UK. (see link below)
- [41] **Flatt, T.**, and A. Heyland. 2011. Reproduction. Part 3, Pp. 99-100, in **Flatt, T.** and Heyland, A. (Eds.): *Mechanisms of Life History Evolution. The Genetics and Physiology of Life History Traits and Trade-Offs*. Oxford University Press, Oxford, UK. (see link below)
- [40] **Flatt, T.**, and A. Heyland. 2011. Growth, Development, and Maturation. Part 2, Pp. 27-28, in **Flatt, T.** and Heyland, A. (Eds.): *Mechanisms of Life History Evolution. The Genetics and Physiology of Life History Traits and Trade-Offs*. Oxford University Press, Oxford, UK. (see link below)
- [39] Braendle, C., Heyland, A., and **T. Flatt**. 2011. Integrating Mechanistic and Evolutionary Analysis of Life History Variation. Chapter 1, Pp. 3-10, in **Flatt, T.** and Heyland, A. (Eds.), *Mechanisms of Life History Evolution. The Genetics and Physiology of Life History Traits and Trade-Offs*. Oxford University Press, Oxford, UK. (see link below)
- [38] **Flatt, T.**, and A. Heyland. 2011. Integrating Mechanisms into Life History Evolution. Part 1, Pp. 1-2, in **Flatt, T.** and Heyland, A. (Eds.): *Mechanisms of Life History Evolution. The Genetics and*

Physiology of Life History Traits and Trade-Offs. Oxford University Press, Oxford, UK. (see link below)

- [37] **Flatt, T.**, and A. Heyland. 2011. Preface, Pp. ix-xi, In **Flatt, T.** and Heyland, A. (Eds.): *Mechanisms of Life History Evolution. The Genetics and Physiology of Life History Traits and Trade-Offs*. Oxford University Press, Oxford, UK. (see link below)
- [36] **Flatt, T.**, and A. Heyland (Eds.). 2011. *Mechanisms of Life History Evolution. The Genetics and Physiology of Life History Traits and Trade-Offs*. Oxford University Press, Oxford, UK. 478 pages, 75 illustrations, ISBN 978-0-19-956877-2. [book reviews in: *Times Higher Education, Quarterly Review of Biology, American Journal of Human Biology, Journal of Genetics*].
<http://www.oxfordscholarship.com/view/10.1093/acprof:oso/9780199568765.001.0001/acprof-9780199568765>
- [35] Fabian, D.K., and **T. Flatt**. 2011. The evolution of aging. ***Nature Education Knowledge*** 3(10):9. <https://www.nature.com/scitable/knowledge/library/the-evolution-of-aging-23651151>
- [34] Klepsatel, P., and **T. Flatt**. 2011. The genomic and physiological basis of life history variation in a butterfly metapopulation. ***Molecular Ecology*** 20:1795-1798. <https://doi.org/10.1111/j.1365-294X.2011.05078.x>
- [33] **Flatt, T.** 2011. Survival costs of reproduction in *Drosophila*. ***Experimental Gerontology*** 46:369-375. <https://doi.org/10.1016/j.exger.2010.10.008>
- [32] Galikova, M., Klepsatel, P., Senti, G., and **T. Flatt**. 2011. Steroid hormone regulation of *C. elegans* and *Drosophila* aging and life history. ***Experimental Gerontology*** 46:141-147. <https://doi.org/10.1016/j.exger.2010.08.021>
- [31] Bronikowski, A.M., and **T. Flatt**. 2010. Aging and its demographic measurement. ***Nature Education Knowledge*** 3(10):3 <https://www.nature.com/scitable/knowledge/library/aging-and-its-demographic-measurement-16821152>
- [30] Kapun, M., Nolte, V., **Flatt, T.**, and C. Schlötterer. 2010. Natural host range and host specificity of the *Drosophila* C virus. ***PLoS One*** 5(8):e12421. <https://doi.org/10.1371/journal.pone.0012421>
- [29] Galikova, M., and **T. Flatt**. 2010. Dietary restriction and other lifespan extending pathways converge at the activation of the downstream effector *takeout*. ***Aging*** 2:387-390. <https://doi.org/10.18632/aging.100174>
- [28] Vogl, C., **Flatt, T.**, Fuhrmann, B., Hofmann, E., Wallner, B., Kovarik, P., Strobl, B., and M. Müller. 2010. Transcriptome analysis reveals a major impact of tyrosine kinase 2 (Tyk2) on the expression of interferon responsive and metabolic genes. ***BMC Genomics***, 2010 Mar 25;11(1):199. <https://doi.org/10.1186/1471-2164-11-199>
- [27] **Flatt, T.** 2009. Ageing: Diet and longevity in the balance. ***Nature*** 462:989-990. <https://doi.org/10.1038/462989a>
- [26] **Flatt, T.**, and P.S. Schmidt. 2009. Integrating evolutionary and molecular genetics of aging. ***Biochimica et Biophysica Acta*** 1790:951-962. <https://doi.org/10.1016/j.bbagen.2009.07.010>
- [25] Bauer, J.H., Morris, S.N.S., Chang, C., **Flatt, T.**, Wood, J.G., and S.L. Helfand. 2009. dSir2 and Dmp53 interact to mediate aspects of CR-dependent life span extension in *D. melanogaster*. ***Aging*** 1:38-48. [Commentary by L.A. Donehower. 2009. Longevity regulation in flies: A role for p53. *Aging* 1:6-8.]. <https://doi.org/10.18632/aging.100001>
- [24] **Flatt, T.**, Heyland, A., Rus, F., Porpiglia, E., Sherlock, C., Yamamoto, R., Garbuzov, A., Palli, S.R., Tatar, M., and N. Silverman. 2008. Hormonal regulation of the humoral innate immune response in *Drosophila melanogaster*. ***Journal of Experimental Biology*** 211: 2712-2724. [Image Featured in *JEB* Calendar 2009]. <https://doi.org/10.1242/jeb.014878>

- [23] **Flatt, T.**, Min, K.-J., D'Alterio, C., Villa-Cuesta, E., Cumbers, J., Lehmann, R., Jones, D.L., and M. Tatar. 2008. *Drosophila* germ-line modulation of insulin signaling and lifespan. **Proceedings of the National Academy of Sciences USA** 105:6368-6373. <https://doi.org/10.1073/pnas.0709128105>
- [22] Crook, T.C., **Flatt, T.**, and P.T. Smiseth. 2008. Hormonal modulation of larval begging and growth in the burying beetle *Nicrophorus vespilloides*. **Animal Behaviour** 75:71-77. <https://doi.org/10.1016/j.anbehav.2007.04.009>
- [21] **Flatt, T.**, and D.E.L. Promislow. 2007. Physiology: still pondering an age-old question. **Science** 318:1255-1256. <https://doi.org/10.1126/science.1147491>
- [20] **Flatt, T.**, and T.J. Kawecki. 2007. Juvenile hormone as a regulator of the trade-off between reproduction and life span in *Drosophila melanogaster*. **Evolution** 61:1980-1991. <https://doi.org/10.1111/j.1558-5646.2007.00151.x>
- [19] Shingleton, A., Frankino, W.A., **Flatt, T.**, Nijhout, H.F., and D. Emlen. 2007. Size and shape: the developmental regulation of static allometry in insects. **BioEssays** 29:536-548. <https://doi.org/10.1002/bies.20584>
- [18] Min, K.-J., **Flatt, T.**, Kulaots, I., and M. Tatar. 2007. Counting calories in *Drosophila* dietary restriction. **Experimental Gerontology** 42:247-251. <https://doi.org/10.1016/j.exger.2006.10.009>
- [17] **Flatt, T.**, Moroz, L. L., Tatar, M., and A. Heyland. 2006. Comparing thyroid and insect hormone signaling. **Integrative & Comparative Biology** 46:777-794. <https://doi.org/10.1093/icb/icl034>
- [16] Bishop, C., Erezylmaz, D.F., **Flatt, T.**, Georgiou, C.D., Hadfield, M., Heyland, A., Hodin, J., Jacobs, M., Maslakova, S.A., Pires, A., Reitzel, A., Santagata, S., Tanaka, K., and J.H. Youson, 2006. What is metamorphosis? **Integrative & Comparative Biology** 46:655-661. <https://doi.org/10.1093/icb/icl004>
- [15] Braendle, C., and **T. Flatt**. 2006. A role for genetic accommodation in evolution? **BioEssays** 28:868-873. <https://doi.org/10.1002/bies.20456>
- [14] Killingback, T., Bieri, J., and **T. Flatt**. 2006. Evolution in group-structured populations can resolve the tragedy of the commons. **Proceedings of the Royal Society of London B** 273:1477-1481. <https://doi.org/10.1098/rspb.2006.3476>
- [13] Tu, M.P., **Flatt, T.**, and M. Tatar. 2006. Juvenile and steroid hormones in *Drosophila melanogaster* longevity. Chapter 16 (pp. 415-448) in Masoro, E. J. and Austad, S.N. (Eds.), *Handbook of the Biology of Aging*, 6th Edition, Academic Press (Elsevier), San Diego.
- [12] **Flatt, T.**, Tu, M.-P., and M. Tatar. 2005. Hormonal pleiotropy and the juvenile hormone regulation of *Drosophila* development and life history. **BioEssays** 27:999-1010. [featured on cover]. <https://doi.org/10.1002/bies.20290>
- [11] **Flatt, T.** 2005. The evolutionary genetics of canalization. **Quarterly Review of Biology** 80:287-316. <https://doi.org/10.1086/432265>
- [10] Altwegg, R., Dummermuth, S., Anholt, B.R., and **T. Flatt**. 2005. Winter weather affects asp viper (*Vipera aspis aspis*) population dynamics through susceptible juveniles. **Oikos** 110:55-66. <https://onlinelibrary.wiley.com/doi/10.1111/j.0030-1299.2005.13723.x>
- [09] **Flatt, T.**, and T.J. Kawecki. 2004. Pleiotropic effects of *Methoprene-tolerant* (*Met*), a gene involved in juvenile hormone metabolism, on life history traits in *Drosophila melanogaster*. **Genetica** 122:141-160. <https://doi.org/10.1023/B:GENE.0000041000.22998.92>
- [08] **Flatt, T.**, and I. Scheuring. 2004. Stabilizing factors interact in promoting host-parasite coexistence. **Journal of Theoretical Biology** 228:241-249. <https://doi.org/10.1016/j.jtbi.2003.12.015>
- [07] **Flatt, T.** 2004. Assessing natural variation in genes affecting *Drosophila* lifespan. **Mechanisms of Ageing and Development** 125:155-159. <https://doi.org/10.1016/j.mad.2004.02.004>

- [06] Rauch, G., Simon, J.-C., Chaubet, B., Haack, L., **Flatt, T.**, and W.W. Weisser. 2002. The influence of ant attendance on aphid feeding behaviour investigated with the electrical penetration graph technique. *Entomologia Experimentalis et Applicata* 102:13-20. <https://doi.org/10.1046/j.1570-7458.2002.00920.x>
- [05] **Flatt, T.**, Shine, R., Borges-Landaez, P.A., and S.J. Downes. 2001. Phenotypic variation in an oviparous montane lizard: effects of thermal and hydric incubation environments. *Biological Journal of the Linnean Society* 74:339-350. <https://doi.org/10.1111/j.1095-8312.2001.tb01396.x>
- [04] **Flatt, T.**, Maire, N., and M. Doebeli. 2001. A bit of sex stabilizes host-parasite dynamics. *Journal of Theoretical Biology* 212:345-354. <https://doi.org/10.1006/jtbi.2001.2380>
- [03] **Flatt, T.**, and W.W. Weisser. 2000. The effects of mutualistic ants on aphid life-history traits. *Ecology* 81:3522-3529. [https://doi.org/10.1890/0012-9658\(2000\)081\[3522:TEOMAO\]2.0.CO;2](https://doi.org/10.1890/0012-9658(2000)081[3522:TEOMAO]2.0.CO;2)
- [02] **Flatt, T.**, Dummermuth, S., and B.R. Anholt. 1997. Mark-recapture estimates of survival in populations of the asp viper, *Vipera aspis aspis*. *Journal of Herpetology* 31:558-564. <https://doi.org/10.2307/1565609>
- [01] **Flatt, T.**, and S. Dummermuth. 1993. [In German; English translation of title: "On the Asp or Jura Viper in the Canton of Solothurn"] "Zur Kenntnis der Aspis- oder Juraviper *Vipera a. aspis* (L., 1758) im Kanton Solothurn". *Mitteilungen der Naturforschenden Gesellschaft des Kantons Solothurn* 36: 75-102.

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 direct grant income since becoming PI in 2009: CHF 5,243,596 ≈ 5,4 M € ≈ 5.7 M USD

(above figure excludes: > 8 million € of grant funding to consortia I have been involved in as co-applicant)

CURRENT GRANTS

2023-: SNSF Research Project # 310030_219283: *The Role of Adaptive Inversion Polymorphisms in their Ancestral Range*. CHF 850,000.

2022-: SNSF Relief Payment Grant, National Research Council, # FZEB-0-214654. CHF 62,500.

COMPLETED GRANTS AND FELLOWSHIPS

As PI (since 2009):

2018-23: SNSF Research Project # 31003A-182262: *The Role of Chromosomal Inversion Polymorphisms in Clinal Adaptation*. CHF 789,766. (earmarked by the National Research Council for potential renewal as a SNSF "Excellence Grant"). (cost-neutral extension of project between 28/02 and 30/09 2023.)

- 2022-23: SNSF Agora Science Communication Project # CRARP3_207145 / 1: "*Game of Life*" (in support of an exhibition entitled "*Tic Toc - The Countdown of Life*" on life cycles, aging and longevity, Natural History Museum Fribourg). CHF 49,400.
- 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. € 60,000 (not included in grant income above).
- 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).
- 2015-19: Co-Applicant with main applicant Judith Korb and colleagues, 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.
- 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: 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. €2.4 million. 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

- 2020-22: Grant from European Society of Evolutionary Biology (ESEB) for organizing a Progress Meeting in Evolutionary Biology (15,000 Euro), co-applicant with Emma Berdan and Kerstin Johannesson
- 2019: Grant from Fonds de recherche du centenaire de l'Université de Fribourg for organizing a conference (3500 CHF)
- 2018: Grant from 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 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: 3rd 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

[67 invited symposia and plenary talks and lectures]

- 2023: Invited External Speaker, 2023 "Blodbad" Meeting, Annual Retreat Meeting of the Department of Zoology, Stockholm University, held at Tovetorp Research Station, Sweden
- 2023: Opening Keynote Speaker, 12th Life Sciences Weekend Seminar of the German Academic Scholarship Foundation, Freiburg im Breisgau, Germany
- 2023: Invited Speaker, International Colloquium "Integrating Evolutionary Genetics and Ecology", held at the Collège de France & Institut Jacques Monod, Paris, France (recording of talk: <https://www.college-de-france.fr/fr/agenda/colloque/integrating-evolutionary-genetics-and-ecology/an-ancestral-balanced-inversion-polymorphism-confers-global-adaptation>)
- 2023: Invited Speaker, Münster Evolution Meeting (MEM), University of Münster, Germany (declined because of overcommitment)
- 2022: Invited Lecturer, International Centre for Theoretical Physics - South American Institute for Fundamental Research (ICTP - SAIFR) & Instituto Serrapilheira Training Program (School) on Quantitative Biology and Ecology, São Paulo, Brazil (see lecture recordings at: https://www.youtube.com/playlist?list=PLg0_ydgtbHGGwDPt1E17K0lqvz2pKfu2p)

- 2021: Invited Speaker, Gutenberg Workshop on Aging in Social Insects, Wasem Kloster Ingelheim, Germany
- 2021: Meet & Fly Online Conference, Citizen Science Project "Melanogaster - Catch the Fly"
- 2021: 9th University of Fribourg Research Day in Medicine 2021 - Collaboration Perspectives for Bio-Medical Research in Fribourg
- 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 to 2022 because of COVID-19; cancelled participation)
- 2020: Invited Speaker, 2nd Münster Evolution Meeting (MEM), University of Münster, Germany (cancelled because of COVID-19)
- 2020: 9th 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: 2nd 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, 33rd Annual French *Drosophila* Conference, École Normale Supérieure de Lyon, Lyon, France
- 2019: Invited Speaker, 6th 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, 7th Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, Trento, Italy
- 2018: Invited Speaker, 23rd 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, 16th 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, 12th 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, 2nd Insect Hormone (20th 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: 2nd 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", 14th Congress of the European Society for Evolutionary Biology (ESEB), Lisbon, Portugal.
- 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 1st Insect Hormone Workshop (19th 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, 54th Annual *Drosophila* Research Conference, Washington, DC, USA
- 2012: 4th EvoVienna Meeting, Vetmeduni Vienna, Department of Integrative Biology and Evolution, Wilhelminenberg, Vienna, Austria

- 2012: Plenary Speaker, Opening Lecture, 18th European Meeting of PhD Students in Evolutionary Biology, Virrat, Finland
- 2012: Symposium on Egg Development, "How do you like your eggs?", 4th 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: 1st 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, 4th 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: 10th International Symposium on Neurobiology and Neuroendocrinology of Aging, Bregenz, Austria
- 2010: 18th International Ecdysone Workshop, České Budějovice, Czech Republic
- 2008: Social Insect Life History Symposium 23rd 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, 10th Congress, European Society of Evolutionary Biology, Krakow, Poland
- 2003: 10th Swiss Herpetological Colloquium, University of Fribourg, Switzerland
- 2001: Symposium on Evolutionary and Ecological Genomics, 8th Congress, European Society of Evolutionary Biology, Aarhus, Denmark (co-author on a talk)
- 1996: German Society for Herpetology (DGHT) Meeting, Goldau, Switzerland
- 1994: 1st Swiss Herpetological Colloquium, Natural History Museum Bern, Bern, Switzerland

INVITED SEMINARS AND TALKS

[109 invited seminars and talks]

- 2024: University of Bern, Institute of Ecology and Evolution, THEE group, Bern, Switzerland
- 2024: Department of Ecology and Genetics, Uppsala University, Uppsala, Sweden

- 2022: Natural History Museum Fribourg, Fribourg, Switzerland (public outreach talk)
- 2022: IFM Biology, Linköping University, Linköping, Sweden (2 talks)
- 2021: Institute of Biology, University of Neuchâtel, Neuchâtel, Switzerland
- 2021: Environmental Humanities Lunch, Environmental Sciences and Humanities Institute, University of Fribourg, Switzerland
- 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)
- 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: 8th 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

[75 contributed conference presentations]

- 2023: 27th European *Drosophila* Research Conference 2019 (EDRC 2023), Lyon, France (1 talk, 1 poster, last author)
- 2022: Lausanne Genomics Days, University of Lausanne, Switzerland (1 talk, last author)
- 2022: ESEB Progress Meeting on Inversions, Tjärnö Marine Laboratory, University of Gothenburg, Sweden
- 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: 26th 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: 16th Congress of the European Society for Evolutionary Biology (ESEB), Groningen, Netherlands (1 talk and 4 posters; last author)
- 2017: 56th 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: 6th European Meeting of the International Union for the Study of Social Insects (IUSSI), Helsinki, Finland (Talk; last author)
- 2016: 3rd 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: 24th 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: 15th Congress of the European Society for Evolutionary Biology (ESEB), Lausanne, Switzerland (2 talks and 1 poster; last author)
- 2015: 3rd 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: 56th 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: 12th 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: 14th Congress of the European Society for Evolutionary Biology (ESEB), Lisbon, Portugal (Talk; last author)
- 2013: 54th Annual *Drosophila* Research Conference, Washington, DC, USA (first author; poster)
- 2012: 53rd 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: 13th Congress of the European Society for Evolutionary Biology, Tübingen, Germany (2 posters; co-author)
- 2011: 52nd Annual *Drosophila* Research Conference, San Diego, CA, USA (Talk and Poster; co-author)
- 2011: 44th 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: 2nd Vienna *Drosophila* Meeting, Institute of Molecular Pathology, Vienna, Austria (Talk; co-author)
- 2010: 18th 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: 51st Annual *Drosophila* Research Conference, Washington, DC, USA (Platform Talk; co-author)
- 2009: 12th Congress of the European Society for Evolutionary Biology, Turin, Italy (Poster)
- 2009: 1st 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: 49th Annual *Drosophila* Research Conference, San Diego, CA, USA (Poster)
- 2007: Gordon Research Conference on Biology of Aging, Les Diablerets, Switzerland (Poster)
- 2007: 48th 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: 11th Congress, International Society for Behavioral Ecology, Tours, France (Poster)
- 2006: Society for the Study of Evolution, Stony Brook, NY, USA (Talk and Poster)
- 2006: 47th Annual *Drosophila* Research Conference, Houston, TX, USA (Platform Talk)
- 2006: Gordon Research Conference on Biology of Aging, Ventura, CA, USA (Poster)
- 2005: 10th Congress of European Society of Evolutionary Biology, Krakow, Poland (Poster)
- 2005: 15th International Congress of Comparative Endocrinology, Boston, MA, USA (Talk)
- 2005: 46th 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: 9th 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

- 2023-: Population and Evolutionary Dynamics (SBL.20032)
 2021-: Population Genetics (SBL.00049)
 2021-: Critical Reading (SBL.20005)
 2021-23: Evolution on the Bench (SBL.00417)
 2020-: Evolutionary Genomics (MSc level block course, 2-3 modules)
 2018-: Introduction to Bachelor work in Ecology & Evolution (SBL.00031)
 2018-20: Life History Evolution & Aging (BL.0214)
 2018-: General Biology II (SBL.0002) (4 hrs on Evolution)
 2018-23: Experimental Ecology (practical; SBL.00037)
 2018-20: Advanced Topics in Evolutionary Genetics & Ecology (BL.0201)
 2018-20: Seminars in Ecology & Evolution (BL.0211)
 2018-20: Research Seminars in Ecology & Evolution (BL.0212)
 2017-: Evolutionary Biology (SBL.00021)

COURSES AND LECTURES TAUGHT AT UNIVERSITY OF LAUSANNE

- 2014-17: Evolution of Life History and Aging (MSc level, 14 semester hours)
 2014-17: Darwinian Medicine – Evolution in Health and Disease (BSc level, 14 semester hours)
 2013-17: Introduction to Scientific Writing (MSc level, 16 semester hours)

COURSES AND LECTURES TAUGHT AT VETMEDUNI VIENNA

- 2011-12: Basic Course for Ph.D. Students in Population Genetics: *Drosophila* Genetics
 2012: Darwinian Medicine (with D. Penn)
 2010-12: Special Molecular Biology (with A. McGregor, C. Metzner)
 2009-10: Basic Course for Ph.D. Students in Population Genetics: Biostatistics (with C. Vogl)
 2009-12: Invertebrate BioModels (with A. McGregor, A. Betancourt)
 2009-12: Basic Course for Ph.D. Students in Population Genetics: Life History Evolution
 2009-12: Darwinian Medicine (with A. McGregor, D. Penn)
 2009-12: Current Topics in Population Genetics (with C. Schlötterer, A. McGregor, C. Kosiol)
 2009-12: Population Genetics - From Theory to Practice (with C. Schlötterer, A. McGregor, C. Kosiol)

COURSES TAUGHT AT OTHER UNIVERSITIES & INVITED GUEST LECTURES

- 2022: Invited Lecturer, Instituto Serrapilheira & International Centre for Theoretical Physics – South American Institute for Fundamental Research (ICTP – SAIFR), Training Program / School on Quantitative Biology and Ecology, São Paulo, Brazil (approximately 10 hrs of lectures)
- 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
- 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: Data Analysis - Introductory Biostatistics, University of Fribourg (with D. Meyer, T. Steinger)
- 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-: Dr. Margot Paris. Senior Postdoctoral Researcher.
- 09/2018-12/2022: Dr. Envel Kerdaffrec. EMBO Postdoctoral Fellow (now in private industry).
- 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).
- 2018-21: Dr. Marta Bellone, Administrator of the CUSO (Conférence universitaire de Suisse occidentale) Inter-University Doctoral Program in Ecology & Evolution (DPEE) .
- 08/2017-11/2022: Dr. Esra Durmaz. Postdoctoral Researcher (currently senior postdoc at University of Southern Denmark).
- 10/2014-10/2020 Dr. Katja Hoedjes. Postdoctoral Researcher. 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. Postdoctoral Researcher. Universities of Lausanne & Fribourg. (currently head of bioinformatics at the Natural History Museum Vienna, and PI at Medical University Vienna).
- 04/2014-03/2015: Dr. Sara Carvalho. Postdoctoral Researcher. University of Lausanne (now in private industry).
- 01/2013-12/2014: Dr. Chantal Daupin-Villemant. Senior researcher, also fulfilling part-time laboratory technician duties.

PH.D. STUDENTS

- 2023-: Secondary (external) PhD supervisor of Juliana Rodriguez-Fuentes, Institute of Ecology and Evolution, University of Bern: *Phenotypic effects of chromosomal inversions in threespine stickleback*. Main supervisor: Catherine Peichel.

- 01/2016-11/2022: Marisa Rodrigues. Ph.D. Thesis: *The Physiological Basis of Costs of Reproduction in Drosophila melanogaster*. University of Lausanne; from 08/2017 at University of Fribourg. Defense date: 10 October 2022.
- 05/2013-08/2017: Kathrin Garschall (currently postdoc at Sars International Centre for Marine Molecular Biology, University of Bergen, Norway). Ph.D. Thesis: *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). Ph.D. Thesis: *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 research group leader 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 head of bioinformatics, Natural History Museum Vienna, and PI Lab of Genome Dynamics, 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

- 02-07/2023: Felicitas Zurbriggen, BSc Thesis Project: Impact of a chromosomal inversion on body size in *Drosophila melanogaster*.
- 02-06/2023: Tristan Rey, BSc Thesis Project: Experimentally Testing the Frequency-Dependence of an inversion polymorphism.
- 09/2022-09/2023: Cécile Spichtig, MSc Thesis Project: Evolution of body size in *Drosophila melanogaster*: effects of a chromosomal inversion.
- 03/2022-06/2023: Stephanie Zürcher, MSc Thesis Project: Wild bee fauna in apple orchards: effects of managed bee populations and surrounding landscape. FIBL and UniFR.
- 03/2022-03/2023: Charlotte Suter, BSc Thesis Project: Does heterozygosity for the *In(3R)Payne* chromosomal inversion in *Drosophila melanogaster* provide a benefit?
- 01-06/2021: Cécile Spichtig, BSc Thesis Project: Maintenance of the *In(3R)Payne* Chromosomal Inversion Polymorphism by Balancing Selection.
- 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*). UniFR and UniBE. 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*..

- 02/2018-05/2018: Jeanne Bruelhart, BSc Thesis Project.:The effects of allelic competition and thermal adaptation on *Drosophila* life history.
- 02/2018-05/2018: Antoine Merckelbach, BSc Thesis Project: A functional germ line is required for the post-mating immune response in *D. melanogaster*.
- 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 PROJECT 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

- 03/2023: Yvan Rime, Student Assistant helping with fly work in the lab.
- 02/2023: Eliane Zinn, Student Assistant helping with fly work in the lab.
- 12/2022-06/2023: Elliot Gobet, Student Assistant helping with fly work in the lab.
- 02-08/2020: Sarah Descloux, Student Assistant helping with fly work in the lab.
- 01/2020-: Dr. Patrick Favre. Lab manager and technician.
- 02-09/2019: Virginie Trieu, Student Assistant helping with fly work in the lab.
- 02/2019-: Thibault Schowing, Student Assistant helping with fly work in the lab.
- 11/2018-01/2020: Dr. Margot Paris. Lab manager and technician.
- 04/2018-11/2018. Laurent Boualit. Lab manager and technician.
- 12/2017-03/2018. Ursina Rathgeb. Lab manager and technician.
- 8/2017-11/2017. Dr. Axel Zander. Lab manager and technician.
- 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; fly 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

- 06-09/2022. Fanny Gagliardi, internship.
- 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.

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

- Secondary supervisor, PhD thesis project of Juliana Rodriguez-Fuentes, Institute of Ecology and Evolution, University of Bern. 2023-date. Main supervisor: Catherine Peichel.
- External examiner and member of board of adjudicators for the PhD thesis of Srikant Venkitachalam, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, India. "The ecology and evolution of larval competitive ability in laboratory populations of *Drosophila*". Advisor: Amitabh Joshi. Defense date: 12 December 2023.
- PhD thesis committee member and examiner, Alessandro Belli, Department of Biology, University of Neuchatel, Switzerland. "The role of oxidative stress in senescence and immune responses of the mosquito *Aedes aegypti*". Advisor: Jacob Koella. Defense date: 7 September 2023.
- PhD thesis committee member and examiner, Carlos S. Reyna-Blanco, Department of Biology, University of Fribourg, Switzerland. 2018-2022. "Going with the (Gene) Flow: Computational Tools for Inferring Population History from Genomic Signatures of Admixture". Advisor: Daniel Wegmann. Defense date: 29 June 2023.
- External PhD examiner, Alejandro Rios-Villamil, Western Sydney University. "Diet and the evolution of lifespan and ageing in male and female decorated crickets". Advisor: John Hunt. June 2023.
- External PhD examiner, Shamma Rattan Booth, Oxford Brookes University. "Investigating the evolution and functionality of closely related Wnt ligands in *Drosophila melanogaster*". Advisor: Alistair McGregor. Viva: 1 March 2023.
- PhD thesis committee member, Sarai Reyes-Avila, University of Neuchâtel, Switzerland. November 2022-. "Detection of genetically modified organisms". Advisor: Daniel Croll.
- PhD thesis committee member, Piotr Michalak, University of Toulouse III Paul Sabatier, Toulouse, France. November 2022-. Advisors: Jean-Baptiste Ferdy and David Duneau.
- PhD examiner, Silu Lin, University of Freiburg (Germany) and University of Groningen (Netherlands). "Social modulation of ageing in termites". Advisors: Judith Korb and Ido Pen. Defense date: 23 August 2022.
- PhD thesis committee member, Lana Rees, Department of Biology, University of Fribourg, Switzerland. 2022-. "Fin anatomy, fin regeneration and heart regeneration in teleost fish". Advisor: Anna Jazwinska.
- PhD thesis committee member and examiner, Jenifer Kaldun, Department of Biology, University of Fribourg, Switzerland. 2018-2022. "Mechanisms of learning, memory and forgetting in *Drosophila melanogaster*". Advisor: Simon Sprecher. Defense date: 17 March 2022.

- PhD thesis committee member, Shrinath Narayanan, Department of Ecology and Evolution, University of Lausanne. "Role of fat body and its metabolism in adaptation to chronic malnutrition in *Drosophila melanogaster* populations". Advisor: Tadeusz J. Kawecki.
- PhD opponent (examiner) for PhD thesis of Martin Brengdahl, IFM Biology, Linköping University, Linköping, Sweden. Advisor: Urban Friberg. Defense date: 29 April 2022.
- PhD thesis committee member, Nikita Komarov, Department of Biology, University of Fribourg. The taste system of the *Drosophila* larva. Advisor: Simon Sprecher.
- PhD thesis committee member, Abhishek Meena, Department of Evolutionary Biology and Environmental Studies, University of Zürich. "Condition-dependent investments in sexually selected traits and their fitness consequences in *Drosophila prolongate*." Advisor: Stefan Lüpold.
- External PhD examiner, Andrew McCracken, University of Sheffield. "The evolutionary biology of ageing: demography, death, and diet". Advisor: Mirre Simons. Viva voce: 21 April 2021.
- 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, Ilektra Schulz, Department of Biology, University of Fribourg, Switzerland. "Towards reliable, flexible and reproducible processing of low-depth and ancient sequencing data". Advisor: Daniel Wegmann. Defense date: 13 February 2023.
- 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 Özge Şahin, Institute for Evolution and Biodiversity, Faculty of Biology, University of Münster. Advisor: Joachim Kurtz.
- External PhD committee member for PhD studies of Lina Maria Pedraza Hernandez, University of Regensburg. Advisors: Jürgen Heinze and Abel Bernadou.
- 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, 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 *Rizophagus 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 Wyszetzki, 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 Pouillet, 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 Fédérale 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

- Member, Oversight Committee for journal *Evolution Letters* (2023-2026)
- Guest Editor, 2021-22, *Philosophical Transactions of the Royal Society of London B* theme issue on "Genomic Architecture of Supergenes: Causes and Evolutionary Consequences", with Emma Berdan, Katie Lotterhos, Genny Kozak and Ben Wielstra
- Member, Advisory Group (Task Force) for journal *Evolution* (February-June 2021)
- Associate Editor, *Proceedings of the Royal Society of London B* (2 terms: 2021-23 and 2024-27)
- Guest Reviewing Editor, *eLife* (January 2020)
- Associate Editor, *Evolution* (2 terms: 2016-18 and 2020-22)
- Associate Editor, *Ecology and Evolution* (2016-20)
- Reviewing Board Member (Recommender), *Peer Community in Evolutionary Biology* (2016-22)
- Section Editor, *BMC Zoology* (Editor-in-Chief of life history section) (2016-21)

- 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, 2011-13)
- Member, *Faculty of 1000* (F1000), Developmental Biology Faculty, Aging Section (2011-22)
- Academic Editor, *PLoS ONE* (2011-14)
- Associate Editor, *Frontiers in Genetics of Aging* (2011-14)
- Reviewing Editor, *Frontiers in Experimental Endocrinology* (2011-14)
- Deciding Editor, *Journal of Evolutionary Biology* (2010-16).
- Reviewing Editor, *Journal of Evolutionary Biology* (2009-12; served only 1 year; promoted to Deciding Editor in 2010).

REVIEWER SERVICE

REVIEWER FOR ACADEMIC JOURNALS

[67 journals]

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 *A Primer of Life Histories – Ecology, Evolution, and Application*, by J. A. Hutchings, Oxford University Press, 2021.
- *Oxford University Press*, Oxford, UK: review of the evolutionary biology content of the Oxford Reference (OR; www.OxfordReference.com) online publishing platform (OUP's A to Z reference content)
- *Oxford University Press*, Oxford, UK: review of *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; GRANT REVIEWING PANEL MEMBERSHIPS

[51 funding agencies, foundations and academies]

- 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
- Agency for Management of University and Research Grants (AGAUR), Government of Catalonia, Spain (declined due to overcommitment)
- 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
- California Northstate University (CNU), Seed Grant Application
- 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
- C.T. de Wit Graduate School for Production Ecology & Resource Conservation, Department of Genetics, Wageningen University, Ph.D. Proposal
- 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 due to overcommitment)
- 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)
- Hungarian Academy of Sciences, 'Lendület ("Momentum") Programme (2021, declined due to overcommitment)
- Indian Academy of Sciences, Fellowship Election (2021)
- Israeli Ministry of Science, Technology & Space (2015, declined due to overcommitment)
- Kentucky Science and Engineering Foundation (2017, declined due to overcommitment)
- KU Leuven Research Council, Belgium
- Leverhulme Trust, UK
- MacArthur Fellowship, John D. and Catherine T. MacArthur Foundation, USA
- Mardsen Fund, Royal Society Te Apārangi, New Zealand (declined due to overcommitment)
- 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 due to overcommitment)
- 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; e.g., Division 3 - Biology and Medicine; Ambizione and Eccellenza fellowships; from 2022-: Member of National Research Council of SNSF, Member of the Biology and Medicine Evaluation Panel, Member of the Postdoc Mobility Evaluation Panel, Delegate of SNSF NRC Division III on Review Panel of NCCR Microbiomes)
- 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
- Wellcome Trust, UK (declined due to overcommitment)
- Wissenschaftskolleg zu Berlin, College for Life Sciences Fellowship

SERVICE ON SEARCH, HIRING, TENURE AND PROMOTIONS COMMITTEES (EXTERNAL)

- 2023. Member, appointment committee for an associate professorship *ad personam*, University of Zürich, Switzerland
- 2023. External reviewer, promotion to full professor, University of Zürich, Switzerland
- 2023. External reviewer, promotion to senior lecturer, University of Edinburgh, UK
- 2022. External reviewer, promotion to associate professor, University of Bern, Switzerland
- 2022. External reviewer, promotion to associate professor, Durham University, UK
- 2022. External reviewer, promotion to associate professor, Monash University, Australia
- 2021. External reviewer, promotion to personal chair/professorship, University of Edinburgh, UK
- 2021. External reviewer, promotion to adjunct professorship, University of Zürich, Switzerland
- 2021. External member of a search committee for a full professor in evolutionary genetics, University of Neuchâtel, Switzerland
- 2019. External expert, «habilitation à diriger des recherches» (HDR), University of Montpellier, France
- 2018. External expert, «habilitation à diriger des recherches» (HDR), Ecole Normale Supérieure de Lyon, France
- 2015. External reviewer, promotion to full professorship. Oxford Brookes University, Oxford, UK
- 2014. External reviewer, extension review of a non-permanent group leader, Instituto Gulbenkian de Ciência, Oeiras, Portugal
- 2014. External assessor, tenure track assistant professorship position in ecological and evolutionary genomics, Faculty of Biological and Environmental Sciences, University of Helsinki
- 2012. External reviewer, promotion to distinguished professorship, University of California, Irvine, Department of Ecology and Evolutionary Biology
- 2012. External tenure reviewer, promotion to associate professor, University of Connecticut, Storrs, Department of Allied Health Sciences

ORGANIZATION OF WORKSHOPS, SYMPOSIA AND CONFERENCES

[42 meetings co-organized]

- 2023: *Swiss Drosophila Meeting*, University of Fribourg, June 2023; co-organizer with Simon Sprecher, Anne von Philipsborn, and Boris Egger.
- 2022: Co-Organizer with Josefa Gonzalez and Alan Bergland, Symposium "*Progress and Prospects in Adaptation Genomics*", organized on behalf of the *European Drosophila Population Genomics Consortium (DrosEU)* at the 2022 Congress of the European Society for Evolutionary Biology (ESEB), Prague, Czech Republic, 14-19 August 2022.
- 2022: 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.
- 2021: Co-Organizer with Josefa Gonzalez of the 11th Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, 21 and 22 June 2021 (online).
- 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 62nd Annual *Drosophila* Research Conference, March/April 2021 (online).
- 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 (cancelled because of COVID-19).
- 2020: Co-Organizer with Élio Sucena, Josefa González and Martin Kapun of the 10th 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, 33rd French Annual *Drosophila* Conference, École Normale Supérieure de de Lyon, France.
- 2019: Invited Member, Scientific Committee, 6th 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 9th 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 8th 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 7th 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 6th Workshop of the *European Drosophila Population Genomics Consortium (DrosEU)*, held as a satellite meeting at the 16th 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, 16th 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*", 16th 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 5th 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 4th 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 3rd 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?*", 15th 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 (2nd) *International Insect Hormone Workshop* (formerly: (20th) *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 2nd 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 1st 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 15th 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*, 14th 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*, 14th 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, *2nd 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, *1st 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: Member of a search committee for the succession of a professor in neurology, UniFR
- 2021-23: Member of the finance commission of the Faculty of Science and Medicine, UniFR (as department president)
- 2021-23: Member of the building commission of the Faculty of Science and Medicine, UniFR (as department president)
- 2021-23: Head of Department, Department of Biology, UniFR
- 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
- 2020-21: 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
- 2019-22: Member of a committee for a new university building for the ecology and evolution unit 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)
- 2017-18: Member of a search committee for a professor in geriatrics/gerontology, Faculty of Science and Medicine, UniFR
- 2017-19: Member of a structural working group for the succession of two professors in the Department of Biology, UniFR
- 2017-: Member of the Faculty Council of the Faculty of Science and Medicine, UniFR
- 2017-23: Member of the Departmental Committee of the Department of Biology, UniFR
- 2017-23: 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

- 2021: Invited to nominate candidates for the 2022 Kyoto Prize in Basic Sciences by the Inamori Foundation (declined to due to overcommitment)
- 2020: Participant in a Roundtable Discussion about Academic Careers, Fribourg Graduate School of Life Sciences (FGLS)
- 2018-21: DFG Mercator Fellow & Visiting Professorship, Institute for Evolution & Biodiversity, EvoPAD program, University of Münster, Germany

- 2018-21: 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)
- 2017-22: 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: Invited Discussant and Session Chair, Workshop "Towards a Darwinian Framework for Integrating Genetic and Non-Genetic Cues", Falmouth, Cornwall, UK, July 2017.
- 2016-18: 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)
- 2016-22: 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-: 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-: 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 [Stanford], and Paul Schmidt [Philadelphia]), at the National Evolutionary Synthesis Center (NESCent), Duke University, Durham, NC, USA, 27-29 April 2012
- 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 Hépetologique 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 snakes *Bothrops asper* and *Bothrops atrox*).

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- Sigma Xi, The Scientific Research Honor Society, nominated for full membership in July 2023
- Société Fribourgeoise des Sciences Naturelles
- 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)
- European Drosophila Society (EDS)

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

- «Vieillir - De l'autre côté du miroir?», Café scientifique (public discussion event, organized by the University of Fribourg), held at the Natural History Museum Fribourg, 18 January 2023; <https://events.unifr.ch/cafes-scientifiques/fr/programme/2022-2023/vieillir.html>; <https://www.youtube.com/watch?v=nR0uEyl19XI>
- RTS (Radio Télévision Suisse), radio show «Dis, pourquoi?», 5 episodes on aging, interview guest, January 2023; <https://www.rts.ch/audio-podcast/2023/audio/le-vieillissement-1-5-25891285.html>
- "Der Countdown läuft - Wir werden alle älter. Sprechen wir darüber". *Universitas - Das Magazin der Universität Freiburg, Schweiz*, 01/2022/2023, p. 12-15, article by C. Brülhardt [interview of T. Flatt and P. Wandeler about aging and the diversity of lifespan patterns]

- "Warum altern wir?". *Universitas - Das Magazin der Universität Freiburg, Schweiz*, 01/2022/2023, p. 34-35, article by T. Flatt [popular science essay about the evolution of aging]
- "Here's why we age", Deutsche Welle (Germany's international broadcaster) (interview about the evolution of aging); <https://www.dw.com/en/heres-why-we-age/a-63119061>
- "Alt werden, länger leben, unsterblich sein: Eine Ausstellung regt zum Nachdenken an", *Freiburger Nachrichten*, 9 June 2022 (newspaper article about exhibition on aging at the Natural History Museum in Fribourg)
- "Evolution can happen at shorter timescales, a fruit fly study shows", *The Hindu*, 2 April 2022 (article by Subhash Rajpurohit on Rudman *et al.* 2022 and perspective by Hoffmann & Flatt 2022 in *Science*)
- "Unsterblich in alle Ewigkeit?", *Drogistenstern* (Zeitschrift des Schweizerischen Drogistenverbandes), June/July 2022, 3/2022 (article by Astrid Tomczak-Plewka about aging and anti-aging drugs; interview)
- Radio interview with Dutch News Radio (BNR Nieuwsradio, Amsterdam) (interview about aging and longevity); <https://www.bnr.nl/podcast/wetenschap-vandaag/10465840/waarom-leeft-het-ene-dier-30-minuten-en-het-andere-100-jaar>; 26 January 2022
- "How can ant and termite queens live so long?", *Knowable Magazine (from Annual Reviews)*, article by Tim Vernimmen; <https://knowablemagazine.org/article/living-world/2022/how-can-ant-and-termite-queens-live-so-long>; also see: *Smithsonian Magazine*: <https://www.smithsonianmag.com/science-nature/how-can-ant-and-termite-queens-live-so-long-180979408/> and the *Atlantic Magazine* <https://www.theatlantic.com/science/archive/2022/01/mystery-how-some-insects-live-decades/621343/> (article about aging in social insects; coverage of Promislow *et al.* 2022; interview)
- 2022, Museum Exhibition "*Tic Toc - The Countdown of Life*" at the Natural History Museum of Fribourg (NHMF) on the diversity of life cycles, aging and longevity among organisms; scientific consultant, and co-organizer together with lead organizers Peter Wandeler (NHMF) and Pia Viviani (Catta AG); funded by a SNSF Agora grant to TF. The exhibition was shortlisted for the Prix Expo 2022 by the Swiss Academy of Natural Sciences (SCNAT).
- "The Wild Frontier of Model Organism Research", by James Dinneen on *undark.org* (<https://undark.org/2021/07/19/wild-frontier-model-organism-research>) [article mentioning Kapun *et al.* 2021 DEST paper]
- "Leben heisst sterben", *Universitas - Das Magazin der Universität Freiburg, Schweiz*, 03/2020/2021, p. 50-53, article by R. Fischer [article about trade-offs, costs of reproduction and the evolution of aging]
- "Long Live the Queen", popular article by Yao-Hua Law, *Science*, 25 March, 2021; <https://doi.org/10.1126/science.371.6536.1302> (interview about 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 scientifique, organized by the University of 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?", 15 January 2020 [radio interview with T. Flatt and Judith Camenzind about human aging]

- "Das Alter ist kein Problem, sondern eine Tatsache", *Universitas - Das Magazin der Universität Freiburg, Schweiz*, 02/2019/20, p. 54-56, article by Astrid Tomczak-Plewka [interview with T. 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 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]
- "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), [coverage of Ramaekers *et al.* 2019 in *Dev. Cell*]; https://www.eurekalert.org/pub_releases/2019-08/cp-asg081519.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 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 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 and interview 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 T. 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) [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 [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]
- "In the fast lane" (In German, "Auf der Überholspur"). *Vetmed Magazin*, 04/2009 (December), p. 23, Vetmeduni Vienna [on funding and research in the Flatt group, FWF grant P 21498-B11, and Flatt et al. 2008 in *PNAS*]
- "Living longer childless" (In German, "Kinderlos lebt sichs länger"). *Horizonte (Horizons - Magazine of the Swiss National Science Foundation)*, Nr. 83, December 2009, p. 20 [on Flatt et al. 2008 in *PNAS*]
- "Evolution: Modernizing the Modern Synthesis". *Science* 11 July 2008 321:196-197 (in News Focus) [Commentary by T. Flatt on an evolutionary biology meeting held at Austria's Konrad Lorenz Institute for Evolution and Cognition Research]
- "Eliminating germline extends fly lifespan". *United Press International*, 28 April 2008 [on Flatt et al. 2008 in *PNAS*]
- "Reproduction – fewer offspring yield longer lifespan". *Boston Globe* (Health & Science – Discoveries), 28 April, 2008 [on Flatt et al. 2008 in *PNAS*.]

- "Eliminating Germline Lengthens Fly Lifespan, Brown Study Shows". *Brown University Press Release*, released 23 April, 2008 [on Flatt et al. 2008 in *PNAS*]
- "Bee social activity tied to gene - Finding helps explain how honeybees developed their distinctive social behavior." *The Scientist* (Published online 6 March 2007) [Commentary by T. Flatt on a paper published by Gro Amdam's group: Nelson et al., 2007, *PLoS Biology* 5(3):e62]
- "Why the good guys (occasionally) win". *Brown Alumni Magazine*, September/October 2006. [on Killingback et al. 2006 in *Proc. Roy. Soc. London B*]
- "Size, it turns out, does indeed matter in business." *Boca Raton News*, 3 July 2006. [on Killingback et al. 2006 in *Proc. Roy. Soc. London B*]
- "How cooperation can evolve in a cheater's world." *Brown University Press Release* #05-145, released 29 June, 2006. [on Killingback et al. 2006 in *Proc. Roy. Soc. London B*]
- "Cooperators can prosper: population model resolves the tragedy of the commons." *BioScience* 56(5), May 2006: p. 456. [on Killingback et al. 2006 in *Proc. Roy. Soc. London B*]