



Prof. Dr. Wolf Ulrich Blanckenhorn – Short Curriculum Vitae

PERSONALS, EDUCATION & POSITIONS

Born **13. November 1958** in Mannheim (D); married, 2 children; German & Swiss citizen

Languages: German, English, Spanish, French, (Italian)

Web site: <http://www.ieu.uzh.ch/en/staff/professors/blanckenhorn.htm#5> (with detailed CV & publication list)

Google scholar: <https://scholar.google.de/citations?user=05IG1SoAAAAJ&hl=de>

- since 2004** Titular Professor University of Zürich, Department of Evolutionary Biology & Environmental Studies (DEBES; formerly **Zoological Museum**), CH
- 1998-2003** Senior Research Associate (*Oberassistent*) / Lecturer University of Zürich, CH
- 1997** Habilitation in Zoology (Evolutionary Ecology) University of Zürich, CH
- 1993-1997** Research Associate (*Assistent*) / Lecturer University of Zürich, CH
- 1991-1993** Postdoctoral Fellow, Concordia University, Montréal, Québec, CAN
- 1986-1990** PhD in Evolutionary Ecology, State University of New York at Albany, USA
- 1982-1984** Exchange Graduate Student, Duke University, Durham, North Carolina, USA
- 1979-1986** Diploma Studies (MSc) in Biology, University of Tübingen, D
- 1977-1979** Civil Service, German Red Cross, Ludwigshafen, D
- 1977** Max-Planck-Gymnasium (High School) Diploma; Ludwigshafen, D

MAJOR GRANTS

- 2017-2022** SNF Grant 31003A-176055 *Comparative evolutionary genomic analysis of widespread dung flies (Sepsidae; Scathophaga stercoraria): phenological differentiation and speciation*
- 2013-2017** University Research Priority Group Grant (URPP) *Evolution in Action*
- 2012-2016** SNF Grant 31003A-143787 *Comparative evolutionary analysis of incipient speciation due to thermal adaptation and sexual selection in geographically isolated sepsid flies*
- 2006-2012** SNF Grant 3100A0-111775 *Latitudinal thermal adaptation in dung flies on 3 continents.*
- 2006-2010** VELUX-Foundation Research Grant *Biodiversity of the cow dung invertebrate community as an indicator of environmental pollution in agricultural landscapes.*
- 2006-2011** Chairman, European Science Foundation (ESF) Programme *Thermal adaptation in ectotherms* (<http://www.esf.org/thermadapt>)
- 1999-2005** SNF Grant 31.56819.99 *The evolution of body size in dung flies: What keeps them small?*
- 1994-1998** SNF Grant 31-40496.94 *The evolution of sexual size dimorphism in dung flies.*
Various additional minor grants.

PROFESSIONAL ACTIVITIES

- Since 1994** - Reviewing editor of *Journal of Evolutionary Biology*, *Functional Ecology*, *Evolution*;
- **Editor-in-Chief *Journal of Evolutionary Biology*, 2017-2021**
- Reviewing work for most top journals in the field of ecology, evolution & behavior
(e.g. *American Naturalist*, *Animal Behaviour*, *Behavioral Ecology*, *Behavioral Ecology & Sociobiology*, *Ethology*, *Evolution*, *Heredity*, *Oecologia*, *Oikos*, *PlosOne*, *Proceedings of the Royal Society B*, *Nature*, *Evolutionary Ecology*, *Ecology*, *Ecology Letters*, etc.)
- Grant reviews for *Swiss National Fund (SNF)*, *US National Science Foundation (NSF)*, *British Research Council (NERC)*, *Canadian Research Council (NSERC)*, *European Research Council (ERC)*, *Czech Academy of Sciences*, *Dutch Research Council (NOW; ALW)*, *Belgian Research Council (FWO)*, *German Research Council (DFG)*, *Finnish Academy of Sciences Evolution Grant Panel*

(CO-)ORGANISATION & OUTREACH

- 2019** Exhibit *Insekten – lebenswichtig*, Zoological Museum Zürich
- Since 2012** Member departmental (DEBES) & *Fachbereich Biology* teaching committees
- 2012-2016** Chief PD/TP representative Faculty of Sciences (MNF); member faculty board (*Fakultätsausschuss*)
- 2009-2010** Institute Restructuring at UZH (ZM & ZI & UWINST => DEBES)
- 2003-2010** *Collections Manager* Invertebrates, Zoological Museum Zürich
- 2003-2009** *President* Swiss Zoological Society (currently Vice-President)
- 2007** Exhibit on *Biodiversity*, Zoological Museum Zürich
- since 2000** Various scientific & political committees at UZH



CONFERENCE (CO-)ORGANISATION

- 2019** Annual Swiss Meeting *biology2019* in Zürich
2011 Annual Swiss Meeting *biology2011* in Zürich
2008 Paul Ward Symposium, University of Zurich
2005 Symposium on the *Evolution of Sexual Size Dimorphism* at Monte Verità, Locarno, Switzerland
2000 VIII. International Behavioral Ecology Conference in Zürich
1998-2001 Satellite Symposium on Evolution, Ecology & Behavior of the Annual Meeting of the Swiss Zoological & Botanical Societies *Zoologia & Botanica* in Geneva, Zürich, Lausanne, Neuchatel
1995 Annual Meeting of the Swiss Zoological Society *Zoologia* in Zürich

TEACHING

Since 1994 Various lower and higher level courses at UZH on Evolution (including Population & Quantitative Genetics: Bio113, Bio351, Bio352, Bio362, Bio364, Bio395, Bio781), Biodiversity (Bio114, Bio116, Bio121), Biology of Reproduction (Bio361), Behavior (Bio324), Ecology (Bio329), Statistics (Bio369), Invertebrate Taxonomy (Bio370)

STUDENTS & POST-DOCS trained

Since 1994 16 BSc students & 16 MSc (Diploma) students & 17 PhD students (2 current); member of 23 PhD committees at UZH (14 completed); evaluator of 21 PhD theses at other Swiss Universities and abroad (E; SF, LIT, S, DK, ISR, AUS, BRA, ALG, PAK) & of 2 Habilitations (CH); 11 post-docs (1 current); 9 Academic visitors from around the world (since 2008; USA, ISR, JAP, BRA, ALG, PAK, MEX, GR)

PRESENTATIONS

Since 1994 35+ talks at scientific conferences & 60+ invited talks at research institutions throughout the world.

Ca. 150 published SCIENTIFIC ARTICLES in international journals; 5 BOOK CHAPTERS; 5+ POPULAR SCIENCE ARTICLES; 4 BOOK REVIEWS; multiple mentions in NEWSPAPER ARTICLES

RESEARCH INTERESTS

I am an evolutionary ecologist. This biological discipline integrates research questions and methods of evolutionary biology, ecology, population biology, behavior, population & quantitative genetics/genomics, phylogenetics, taxonomy, functional morphology & physiology. With this approach my coworkers and I attempt to achieve a thorough understanding of the organismic evolution of particular suitable model organisms. Hypotheses are generally grounded in theory and tested experimentally in the field or the laboratory. This may include modeling to generate predictions. As I am concept oriented, I can work with a variety of methods and organisms, and I am generally interested in interdisciplinary exchange and collaboration. In the past I have worked with primates, birds and fish, but primarily insects. Currently, my research group mainly studies the most common and economically important yellow dung fly *Scathophaga stercoraria* and various black scavenger flies of the genus *Sepsis* and their close relatives, as well as the dung community as a whole. My main interests lie in the fields of body size and life history evolution, thermal adaptation, phenotypic plasticity, behavioral & community ecology. I generally attempt to integrate my research with my teaching by involving students at the PhD, MSc, BSc and course levels in these projects.



Wolf Ulrich Blanckenhorn – Research topics & landmarks: a brief history of successes and failures

Having been trained as an animal and plant physiologist at Tübingen University (D), as most every self-respecting German biologist at that time and before, the most pivotal event determining my future as a scientist was my move as an exchange student to Duke University (NC, USA) in 1982, which mainly happened out of interest to see something new but also boredom with the basic biology education I received in Tübingen (beyond my high school education).

(1) After prior projects with various vertebrates (MSc thesis: Social structure in lemurs; projects on fish and birds), my dissertation work at **SUNY Albany with Tom Caraco** was on **Foraging Theory** in semi-aquatic water striders (Heteroptera). My publications on the fitness consequences of foraging success, a rarely investigated assumption at that time, were well received by the community but had little long-lasting impact beyond being “ticked off” (Blanckenhorn 1991a,b,#6,7). However, what I consider my most original conceptual contribution to science, treating the effect of variance in resource rates on foraging and mating success, did not catch on at all. I published 4 papers on the topic, testing water striders and dung flies, but the work remained largely unnoticed. This occurred despite the fact that the principle could be generalized to the mating context (Blanckenhorn 1991c; Blanckenhorn & Caraco 1992; Blanckenhorn et al. 1998, 2003,#5,10,22,54). Obviously, foraging was a topic already on its way out in the 1990s. So it went.

(2) Already during my PhD I started to investigate **Life History Adaptations & Phenotypic Plasticity in response to Thermal Regimes** “at the side”, and I published 2 well-received water strider papers based on several years’ PhD data (Blanckenhorn 1991d,1994,#8,14). Two further papers researching the underlying behavioral traits (Blanckenhorn & Perner 1994,1996,#12,18) were early contributions to a now very popular field referred to as “animal personality”; judging from the poor citations, I was ahead of the time on this topic. My work on geographic life history differentiation (including diapause) and clines continued during my **post-doc with Daphne Fairbairn at Concordia University in Montréal** (with the well-cited Blanckenhorn & Fairbairn 1995,#16), and later on dung flies at **UZH in Zürich** (Blanckenhorn 1997a,b, 1998a,b,#20,21,23,26). And it continues to this day.

My main objective in Zurich was to study the **life history** of the yellow dung fly (*Sc. stercoraria*), about which hardly anything was known, in contrast to much **behavioral work** done by Parker, Ward; Simmons and colleagues. Having interacted with **Derek Roff in Montréal**, I now specifically approached much of this work from a **quantitative genetic perspective**, with much success I believe (Mühlhäuser et al. 1996; Blanckenhorn 1998a, 2002,#19,26,46). This included early such work on *Sepsis cynipsea* (Blanckenhorn et al. 1998; Reusch & Blanckenhorn 1998; Mühlhäuser & Blanckenhorn 2004, #24,25,57). I consider Blanckenhorn (1998a, 1999,#26,33) my seminal papers on **phenotypic plasticity**, the latter comparing 3 species with similar ecology but very different growth responses; again, this paper was not overly cited. A great majority of my papers on dung flies at UZH over the years falls under this header of life history adaptation, including much early eco-physiological work now starring under the popular “**climate change**” label (summarized in Blanckenhorn 2009; Blanckenhorn et al. 2014,#B3,119). Most recently all this accumulated work on the yellow dung fly has culminated in supreme data sets on replicated worldwide life history clines (Blanckenhorn et al. 2018; Bauerfeind et al. 2018; Schäfer et al. 2018#149,151,153), work of which I am particularly proud both in terms of quality and quantity. Clearly, such cumulative data, which are dearly necessary to fully understand any organism in biodiversity research, can only be produced if researchers have permanent jobs, which I was lucky to have obtained by then. I consider this cumulative life history work one of my major scientific contributions, whose impact should last beyond my life as a scientist (I hope).

(3) I am probably best known for my contributions to the study of **Body size and Sexual Size Dimorphism (SSD) Evolution**. Several survey papers are very well cited (Blanckenhorn 2000, 2005; Blanckenhorn & Demont 2004; Stillwell et al. 2010,#36,62,67,90), including our edited book on the topic (Fairbairn et al. 2007,#B1). This work additionally comprises well-cited macro-ecological comparative work with several other authors on various species (Blanckenhorn et al. 2006, 2007,#71,74). Our work has prompted and inspired many SSD studies of various organisms since. Further, my recent paper on long-term body size evolution in the field (Blanckenhorn 2015,#122) subsumes 20 years of phenotypic field and quantitative genetic lab work on one yellow dung fly population in a data set unique for invertebrates and akin to long-term animal-model studies of vertebrate populations; while Blanckenhorn et al. (2014,#119) summarizes an equally long data history of thermal response data for all instars of that fly. Work on SSD continues in our laboratory to this day, and includes clear documentations that sexual selection drives the evolution of dimorphism in two species pairs with qualitative reversals in SSD among continental populations (Dmitriew & Blanckenhorn 2012; Puniamoorthy et al. 2012a,b; Rohner et al. 2016, 2018; Rohner & Blanckenhorn 2018; Baur et al. 2020; #101,102,105,136,142,150,162), a situation unique in the literature.



(4) As the main collaborator and deputy of **Prof. Paul Ward at UZH** from 1993 to his premature death in 2008, we subdivided our work on dung flies effectively (Paul Ward: sperm competition & cryptic female choice; Wolf Blanckenhorn: life history and quantitative genetic work), while we overlapped synergistically on **Sexual Selection & Conflict**. My main approach was to study sexual selection in the wild using quantitative methods in both *Sc. stercoraria* and *Se. cynipsea* (Blanckenhorn et al. 1999, 2003, 2004; Jann et al. 2000; Kraushaar & Blanckenhorn 2002, #29,37,43,55,58). I think this body of field selection work on small insects was pioneering. In parallel, we met in studying reproductive behavior (Blanckenhorn et al. 2000, 2002; Ding & Blanckenhorn 2002, #34,42,45), again also from the quantitative genetic perspective (Blanckenhorn & Heyland 2004; Mühlhäuser & Blanckenhorn 2004, #57,64), including studies on condition-dependence and fluctuating asymmetry in the mate choice context in collaboration with **Dr. David Hosken** (Blanckenhorn et al. 1998; Blanckenhorn & Hosken 2003; Hosken et al. 2000,2003, #24,38,53,56). With colleagues I also studied other reproductive traits such as eggs and sperm, again in the thermal context (Blanckenhorn 2000b; Hellriegel & Blanckenhorn 2002, #39,50). I note here that my interest in sexual selection dates back to my earlier work on water striders (Blanckenhorn et al. 1995, #15), with one of the prime and early examples demonstrating a mating advantage of small males (and thus well-cited), and which has a connection to foraging (cf. Blanckenhorn & Viele 1999, #28).

(5) Having followed the traditional single “non-model” species path of behavioral ecology for the best part of my scientific career, I recently expanded to work on **Comparative Differentiation & Speciation in Widespread Black Scavenger Flies (Sepsidae)**. This approach links micro- and macro-evolution by studying a group of closely related species that are common and widespread to find initial signs of (ecological) differentiation and ultimately speciation. We are increasingly using population genetic and genomic methods in this work (Kraushaar et al. 2002; Greminger et al. 2009; Schäfer et al. 2018, #48,85,153), and have started to de-novo sequence reference genomes for 6 *Sepsis spp.*, as well as *Sc. stercoraria* together with our collaborators of the Museum König, Bonn (D). Again, this is a long-term project generating data on multiple temperate species (*S. cynipsea*, *S. neocynipsea* (Europe & North America), *S. fulgens*, *S. orthocnemis*, *S. thoracica*, *S. punctum* (EU & NA)) that feeds back into the realm of ecology and population biology in a comprehensive comparative context (e.g. Blanckenhorn et al. 2007; Berger et al. 2013, 2014; Esperk et al. 2016; Giesen et al. 2017; Rohner et al. 2015,2019; Busso & Blanckenhorn 2018; Roy et al. 2018; Zeender et al. 2019; Laux et al. 2019; Khelifa et al. 2019; Blanckenhorn et al. 2020; #74,111,117,124,134,140,143,152,156,158,159,160,166).

(6) From the turn of the millennium on I have been increasingly involved in applied work on the **Biodiversity of the Dung Invertebrate Community in the Agricultural Landscape**. The initial connection occurred because environmental consulting firms wanted yellow dung fly specimens from us for conducting mandated toxicological tests on newly developed environmental pollutants such as livestock medications. Vertebrate dung is largely broken down by insect (primarily dung beetles and fly) larvae and earthworms, so these organisms fulfill an important ecosystem service in agricultural landscapes dominated by dairy farming, as in Switzerland. Livestock drugs can harm these beneficial organisms, and I am part of an international research consortium that has set out to extend and possibly replace the usual single-species laboratory toxicity (LD₅₀) tests by more advanced field investigations assessing the entire dung insect community biodiversity. This work culminated in a series of 7 papers in a special issue of a prominent toxicological journal (*Environmental Toxicology & Chemistry* 35(8), pp. 1914-1977, #127-133), work that is meant to inform worldwide policy decisions at the highest level (e.g. the *European Medicines Agency*). We have undertaken various eco-toxicological investigations of effects of (primarily) the prominent livestock and human drug *Ivermectin* on our dung flies (Römbke et al. 2009; Blanckenhorn et al. 2013; Conforti et al. 2017; van Koppenhagen et al. 2020; #86,107,154,164) and the biodiversity of the entire dung community (Floate et al. 2016, #129). We have also incorporated *Ivermectin* as yet another stressor (in addition to food restriction and temperature stress) in our ecological, behavioral and evolutionary studies (Puniamoorthy et al. 2014; Jochmann & Blanckenhorn 2016, #116,135), thus integrating basic and applied biological research. This included use of DNA meta-barcoding in identifying dung insects (Blanckenhorn et al. 2016, #133). Lately we are expanding this line of work to other common human-introduced pollutants such as herbicides and insecticides (e.g. Mahdjoub et al. 2020, #165), and to include the now prominent Black Soldier Fly *Hermetia illucens* (2021, #171).

It is obvious that we require more long-term studies on more “non-model” species to obtain a full picture of the evolution of organismal biodiversity. The field of biodiversity research is clearly moving in that direction, and I believe my research over the years has contributed substantially to this aim within the fields of behavioral & evolutionary ecology.

One conclusion that I can draw already is that what I considered important and very original in my work does not necessarily correlate well with what other people cite and consider interesting: one more argument for keeping diversity in research high, as we can rarely predict or plan a priori the impact of any research (except when very applied). It is also clear that researching only a handful of “model species” is not sufficient to understand nature, and that research can and should not be overly “managed”. Technological advances often indeed advance any field of science, but mainly because new methods allow us to approach the same interesting questions in a different way.



PUBLICATIONS (* publications on sepsids; § publications on *Scathophaga*)

- ♣Rohner P.T. 2022. Secondary Sexual Trait Melanization in “Black” Scavenger Flies: Nutritional Plasticity and Its Evolution. *American Naturalist* //doi.org/10.1086/717051.
- ♣§177. Walters RJ., Berger D., **Blanckenhorn WU.**, Bussière LF., Rohner PT., Thüler K., Jochmann R., Schäfer MA. (2022). Growth rate mediates hidden developmental plasticity of female yellow dung fly reproductive morphology in response to environmental stressors. **Evolution & Development** 24:3-15. DOI: 10.1111/ede.12396
- ♣§176. **Blanckenhorn WU.**, Berger D., Rohner PT., Schäfer MA., Akashi H., Walters RJ. (2021). Comprehensive thermal performance curves for yellow dung fly life history traits and the temperature-size-rule. **Journal of Thermal Biology** 100:103069. DOI: 10.1016/j.jtherbio.2021.103069
- ♣§175. **Blanckenhorn** Thüler K., W.U. Blanckenhorn, P.I. Ward, S. Lüpold, L.F. Bussière. 2021. Female accessory gland fluid promotes sperm survival in yellow dung flies. **Alpine Entomology** 5, 95. DOI 10.3897/alpento.5.68501
- ♣§174. **Blanckenhorn, W.U.** 2021. Energetic underpinnings of yellow dung fly mating success in the field. **Alpine Entomology** 5, 61. DOI 10.3897/alpento.@.68153
- ♣§ 173. González-Tokman D., Bauerfeind SS., Schäfer MA., Walters RJ., Berger D., **Blanckenhorn WU.** (2022). Heritable responses to combined effects of heat stress and ivermectin in the yellow dung fly. **Chemosphere** 286(1):131030. DOI: 10.1016/j.chemosphere.2021.131030
- ♣§141. Blanckenhorn, W.U. 2021. A fungal parasite selects against body size but not fluctuating asymmetry in Swiss yellow dung flies. **Alpine Entomology** 5, 27. DOI 10.3897/alpento.5.65653
- ♣§*172. **Blanckenhorn, W.U.**, Cozzi, G., Jäggl, G., Busso, J.P. 2021. Experimental size- and sex-specific predation on dung flies by amphibian and arthropod predators. **Israel Journal of Ecology & Evolution**, in press. //dx.doi.org/10.1163/22244662-bja10026
171. Kaya, C.; Tomas N. Generalovic; Gunilla Ståhls; Martin Hauser; Ana C. Samayoa; Carlos G. Nunes-Silva; Heather Roxburgh; Jens Wohlfahrt; Ebenezer A. Ewusie; Marc Kenis; Yupa Hanboonsong; Jesus Orozco; Nancy Carrejo; Satoshi Nakamura; Laura Gasco; Santos Rojo; Chrysantus Tanga; Rudolf Meier; Clint Rhode; Christine J. Picard; Chris Jiggins; Florian Leiber; Jeffery K. Tomberlin; Martin Hasselmann; Wolf U. Blanckenhorn; Martin Kapun; Christoph Sandrock. 2021. Global population genetic structure and demographic trajectories of the black soldier fly, *Hermetia illucens*. **BMC Biol** 19, 1-22. <https://doi.org/10.1186/s12915-021-01029-w>
- ♣§170. Demont, M., P.I. Ward, W.U. Blanckenhorn, S. Lüpold, O.Y. Martin, L.F. Bussière. 2021. How biases in sperm storage relate to sperm use during oviposition in female yellow dung flies. **Behavioral Ecology**, 32, 756-768. doi:10.1093/beheco/arab026
- ♣*169. **Blanckenhorn WU.**, Baur J., Roy J., Puniamorthy N., Busso JP., Schäfer MA., Rohner PT. (2021). Comparative sexual selection in field and laboratory in a guild of sepsid dung flies. **Animal Behaviour** 175:219-230. DOI: 10.1016/j.anbehav.2021.03.001
168. Rouka, E; Gourgoulianni, N; Lüpold, S; Hatzoglou, C; Gourgouliannis, K; **Blanckenhorn WU.**; Zarogiannis, SG. 2021. The *Drosophila* septate junctions beyond barrier function: Review of the literature, prediction of human orthologs of the SJ-related proteins and identification of protein domain families. **Acta Physiologica** 231:1 e13527. DOI: 10.1111/apha.13527
167. Niels Verhulst, Alexandra Brendle, Wolf U. Blanckenhorn, Alexander Mathis. 2020. Thermal preferences of subtropical *Aedes aegypti* and temperate *Ae. japonicus* mosquitoes. **Journal of Thermal Biology** 91, 102637. //doi.org/10.1016/j.jtherbio.2020.102637



- ♦ *166. **Blanckenhorn WU.**, Baur J., Busso JP., Giesen A., Gourgoulianni N., van Koppenhagen N., Roy J., Schäfer MA., Wegmann A., Rohner PT. (2020). Sexual size dimorphism is associated with reproductive life history trait differentiation in coexisting sepsid flies. **Oikos** **129(8):1152-1162**. DOI: 10.1111/oik.07036
- ©§165. Hayat Mahdjoub, Wolf U. Blanckenhorn, Stefan Lüpold, Jeannine Roy, Natalia Gourgoulianni, Rassim Khelifa. 2020. Fitness consequences of the combined effects of veterinary and agricultural pesticides on a non-target insect. **Chemosphere** **250: 126271**. <https://doi.org/10.1016/j.chemosphere.2020.126271>.
- ©§164. Nicola van Koppenhagen, Natalia Gourgoulianni, Patrick T. Rohner, Jeannine Roy, Alexandra Wegmann, Wolf U. Blanckenhorn. 2020. Sublethal effects of the parasiticide ivermectin on male and female reproductive and behavioural traits in the yellow dung fly. **Chemosphere** **242: 125240**. <https://doi.org/10.1016/j.chemosphere.2019.125240>
- ♦ *163. Julian Baur, Jeannine Roy, Martin A. Schäfer, Nalini Puniamoorthy, Wolf U. Blanckenhorn, Patrick T. Rohner. 2020. Intraspecific mating system evolution and its effect on complex male secondary sexual traits: Does male-male competition increase selection on size or shape? **J. Evol Biology** **33: 297-308**. DOI: 10.1111/jeb.13565
- ♦ *162. Baur J., Giesen A., Rohner PT., **Blanckenhorn WU.**, Schäfer MA. (2020). Exaggerated male forelegs are not more differentiated than wing morphology in two widespread sister species of black scavenger flies. **Journal of Zoological Systematics & Evolutionary Research** **58(a):159-173**. DOI: 10.1111/jzs.12327
161. Muhammad Akmal, Shoab Freed, Martin A. Schäfer, Wolf U. Blanckenhorn, Muhammad Razaq & Ummad-Ud-din Umar 2020. Population genetic and phenotypic differentiation of cotton leafhoppers (Hemiptera: Cicadellidae) from Pakistan. **Écoscience** **27: 33-43**. <https://doi.org/10.1080/11956860.2019.1688915>
- ♦ *160 Khelifa R., **Blanckenhorn WU.**, Roy J., Rohner PT., Mahdjoub H. (2019). Usefulness and limitations of thermal performance curves in predicting ecotherm development under climatic variability. **Journal of Animal Ecology** **88(12):1901-1912**. DOI: 10.1111/1365-2656.13077
- © *159. Amelie Laux, Alexandra Wegmann, Jeannine Roy, Natalia Gourgoulianni, Wolf U. Blanckenhorn*, Patrick T. Rohner. 2019. The role of larval substrate specialization and female oviposition in mediating species diversity of closely-related sepsid flies (Diptera: Sepsidae). **European Journal of Entomology** **116: 75-84**. doi: 10.14411/eje.2019.008
- ♦ *158. Zeender, V., Roy, J., Wegmann, A., Schäfer, M.A., Gourgoulianni, N., Blanckenhorn, W.U., Rohner, P.T. 2019. Comparative reproductive dormancy differentiation in European black scavenger flies (Diptera: Sepsidae). **Oecologia** **189: 905-917**. <https://doi.org/10.1007/s00442-019-04378-0>
- © *157. Patrick T. Rohner, Jeannine Roy, Martin A. Schäfer, Wolf U. Blanckenhorn, David Berger. 2019. Does thermal plasticity align with local adaptation? An interspecific comparison of wing morphology in sepsid flies. **J. Evol Biology** **32: 463-475**. DOI: 10.1111/jeb.13429
- ♦ *156. Patrick T. Rohner, Jean-Paul Haenni, Athene Giesen, Juan Pablo Busso, Martin A. Schäfer, Frank Püchel-Wieling, Wolf U. Blanckenhorn. 2019. Temporal niche partitioning of Swiss black scavenger flies in relation to season and substrate age (Diptera: Sepsidae). **Alpine Entomology** **3: 1-10**. DOI 10.3897/alpento.3.28366
- ♦ *155. Giesen, A., Schäfer, M.A., Blanckenhorn, W.U. 2019. Geographic patterns of postzygotic isolation between two closely related sepsid fly species (*Sepsis cynipsea* and *Sepsis neocynipsea*; Diptera: Sepsidae). **Journal of Zoological Systematics & Evolutionary Research** **57: 80-90**. DOI: 10.1111/jzs.12239
- ♦ *154. Sheena Conforti, Jana Dietrich, Thierry Kuhn, Nicola van Koppenhagen, Julian Baur, Patrick T. Rohner, Wolf U. Blanckenhorn, Martin A. Schäfer. 2018. Comparative effects of the parasiticide ivermectin on survival and reproduction of adult sepsid flies. **Ecotoxicology and Environmental Safety** **163: 215-222**.



- §153. Schäfer MA., Berger D., Rohner PT., Kjærsgaard A., Bauerfeind SS., Guillaume F., Fox CW., **Blanckenhorn WU.** (2018). Geographic clines in wing morphology relate to colonization history in New World but not Old World populations of yellow dung flies. **Evolution** 72(8):1629-1644. DOI: 10.1111/evo.13517
- *152. Roy, J., **Blanckenhorn, W.U.**, Rohner, P.T. 2018. Largely flat latitudinal life history clines in the dung fly *Sepsis fulgens* from Europe (Diptera: Sepsidae). **Oecologia** 187: 851-862.
- §151. Bauerfeind, S.S., M.A. Schäfer, D. Berger, W.U. Blanckenhorn, C.W. Fox. 2018. Replicated latitudinal clines in reproductive traits of European and North American yellow dung flies. **Oikos** 127: 1619-1632. <https://doi.org/10.1111/oik.05421>
- *150. Rohner, Patrick T., Blanckenhorn, Wolf U. 2018. A comparative study of the role of sex-specific condition dependence in the evolution of sexually dimorphic traits. **The American Naturalist** 192: E202-215. <https://www.journals.uchicago.edu/doi/full/10.1086/700096>
- §149. Blanckenhorn, W.U., S.S. Bauerfeind, D. Berger, G. Davidowitz, C.W. Fox, F. Guillaume, S. Nakamura, K. Nishimura, H. Sasaki, C.R. Stillwell, T. Tachi, M.A. Schäfer. 2018. Life history traits, but not body size, vary systematically along latitudinal gradients on three continents in the widespread yellow dung fly. **Ecography** 41: 2080-2091. <https://doi.org/10.1111/ecog.03752>
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- D3. Meile, Patricia 1996. Die weiblichen und männlichen Einflüsse auf die Kopulationsdauer bei der gelben Mistfliege *Scathophaga stercoraria* (with P. I. Ward). **Diplomarbeit**, Universität Zürich. *EER* 2002; *Behav Ecol* 2007.
- D2. Mühlhäuser, Claudia 1994. Die genetische Komponente der Kopulationsdauer bei der gelben Mistfliege *Scathophaga stercoraria* (with P. I. Ward). **Diplomarbeit**, Universität Zürich. *Anim Behav* 1996.
- D1. Foglia, Max 1994. Eiablagepräferenz bei der gelben Mistfliege *Scathophaga stercoraria*. (with P. I. Ward). **Diplomarbeit**, Universität Zürich. *Ethology* 1999.



PhD committee membership UZH/ETHZ (other than my own students)

Viktor Kovalov (Hanna Kokko; start 2021)
Alessio DeNardo (Stefan Lüpold; start 2021)
Abhishek Meena (Stefan Lüpold; start 2021)
Aditi Rawal (Stefan Lüpold; start 2021)
Juan Traine (Florian Schiestl, start 2020.7)
David Hug (Niels Verhulst, VETSUISSE, start 2020.6)
Thomas Grubinger (Simon Aeschbacher & Lukas Keller, start 2019)
Thomas Dorey (Florian Schiestl, start 2019)
Runa Ekrem (Hanna Kokko; start 2017) – **PhD 2021**
Valerian Zeender (Stefan Lüpold; start 2017) - **PhD 2022**
Yagmur Erten (Hanna Kokko; start 2017) - **PhD 2021**
Jhoniel Perdigon (Stefan Lüpold; start 2016) - **PhD 2021**
Eva Koch (Fred Guillaume; start 2015) - **PhD 2019**
Max Schmid (Fred Guillaume; start 2015) - **PhD 2019**
Ashley Latimer (Marcelo Sanchez & Torsten Scheyer; start 2014) - **PhD 2018**
Julia Andrea Kunz (Carel van Schaik; start 2015) - **PhD 2020**
Alison Ashbury (Carel van Schaik; start 2014) - **PhD 2020**
Judith Bachmann (Josh van Buskirk; start 2014) - **PhD 2017**
Jacqueline Ebnetter (Adrian Hehl UZH VETSUISSE; - **PhD 2017**)
Rassim Khelifa (Josh van Buskirk; - **PhD 2017**)
Andreas Sutter (Anna Lindholm UZH; start 2012) - **PhD 2016**
Pengjuan Zu (Florian Schiestl UZH; start 2012) - **PhD 2016**
Mimi Sun (Florian Schiestl UZH; start 2009) - **PhD 2015**
Björn Zörner (Martin Schwab UZH) - **PhD 2014**
Sebastian König (Roland Sigel UZH) - **PhD 2014**
Bärbel Koch (Peter Edwards ETHZ; Gabriela Hofer FAL) - **PhD 2013**
Romain Rouchet (Christoph Vorburger ETHZ) - **PhD 2012**
Jasmin Winkler (Uli Reyer UZH; Josh van Buskirk UZH) - **PhD 2012**
Oscar Ramos (Uli Reyer UZH; Josh van Buskirk UZH) - **PhD 2011**
Laura Morf (Michael Hottiger UZH; Adrian Hehl UZH VETSUISSE) - **PhD 2010**

PhD committee membership / Dissertation evaluator elsewhere

Alice Monsutti, PhD 1998, Université Lausanne (CH)
Petri Alroth, PhD 1999, University of Jyväskylä (SF) (opponent)
Caroline Reuter-Boutellier, PhD 2003, Université Lausanne (CH)
Ane Timenes Laugen, PhD 2003, Uppsala University (S) (opponent)
Anna Budrienė, PhD 2004, Vilnius University (LIT)
David Berger, PhD 2008, Stockholm University (S) (opponent)
Sanna Bomann, PhD 2008, University of Jyväskylä (SF)
Inon Scharf, PhD 2009, Ben Gurion University (ISR)
Sami Kivelä, PhD 2011, University of Oulu (SF) (opponent)
Anders Kjaersgaard, PhD 2011, Aarhus University (DK) (opponent)
Venera Tyukmaeva, PhD 2012, University of Jyväskylä (SF)
Margo Adler, PhD 2012, University of New South Wales (AUS)
Maria Martinez Benito, PhD 2013, Universitat Barcelona (E)
Kristin Franke, PhD 2014, Universität Greifswald (D)
Camille Ann Louise Stephenson (nee Latimer), PhD 2014, University of Queensland (AUS)
Sandra Stålhandske, PhD 2016, Stockholm University (S) (opponent)
Guillaume Wos, PhD 2016, Université Neuchâtel (CH)
Esra Durmaz, PhD 2017, Université Lausanne (CH)



Hayat Mahdjoub, PhD 2017, Université Badji Mokhtar-Annaba (ALG)
Luiz Felipe Lima da Silveira, PhD 2018, University Rio de Janeiro (BRA)
Akmal Malik, PhD 2019, Bahauddin Zakariya University Multan (PAK)

Habilitation evaluator elsewhere

Barbara Taborsky, Universität Bern, Habilitation 2007
Mathias Kölliker, Universität Basel, Habilitation 2007

Post-doctoral fellows

Dr. Martin Kapun (Universität Wien, A) 2019-2021
Dr. Hayat Mahdjoub (Université Badji Mokhtar-Annaba, ALG) 2017-2018 (SNF)
Dr. Martin Schäfer (Universität Bonn, D) 2007-2018 (DFG Stipendium; SNF)
Dr. Toomas Esperk (Tartu University, Est) 2012-2013 (UZH funds; SNF)
Dr. Anders Kjaersgaard (Aarhus University, DK) 2011-2014 (Danish Research Council Grant & ThermAdapt funds)
Dr. Caitlin Dmitriew (University of Toronto, CAN) 2010-2011 (UZH funds; SNF)
Dr. Richard Walters (University of East Anglia, UK) 2009-2011 (UZH & ThermAdapt funds)
Dr. David Berger (Stockholm University, S) 2008-2011 (Swedish Research Council Grant)
Dr. Stephanie Bauerfeind (Universität Bayreuth, D) 2008-2010 (DFG Stipendium)
Dr. Luc Bussière (University of Stirling, UK) 2004-2008 (UZH funds)
Dr. Ane Laugen (Uppsala University, S) 2005 (UZH funds)

Forschungspraktika (BSc) students

Jasmina Hugi 2006
Manuel Rey, 2010
Manuela Ferrari 2010
Madeleine Geiger 2010
Marcel Nick 2012
Patrick Rohner 2012
Rea Müller 2013
Isabel Schumacher 2013
Natalie Wickli 2014
Michael Kümin 2014
Martina Ramel 2014
Julian Baur 2014
Sheena Conforti 2017
Jana Dietrich 2017
Nicola van Koppenhagen 2017
Thierry Kuhn 2017

Other Academic Visitors

Dr. Daniel Gonzalez-Tokman, INECOL, Xalapa (MEX); 4.2015 & 6.2019
Prof. Dr. Sotirios Zarogiannis, University of Thessaly (GR); 3.2018
Akmal Malik, Bahauddin Zakariya University in Multan (PAK); 9.2017-1.2019
Mariana Servín Pastor, Universidad Nacional Autónoma de México (MEX); 1.2017-5.2017
Hayat Mahdoub, Université Badji Mokhtar-Annaba (ALG); 10.2015-7.2017
Luiz Lima da Silveira, University of Rio de Janeiro (BRA); 3-10.2015
Hiroshi Akashi, Tohoku University, Sendai (JP); 10-12.2014
Prof. Charles Fox, University of Kentucky, Lexington (USA); 12.2010
Inon Scharf, Ben Gurion University of the Negev (ISR); 9-12.2008
Roger Craig Stillwell, University of Arizona, Tucson (USA); 10.2008



TALKS AT SCIENTIFIC CONFERENCES

Genetics & Genomics of Incipient Speciation due to Thermal Adaptation & Sexual Selection in widespread Sepsid Dung Flies (Diptera: Sepsidae); URPP Evolution Symposium, Sarnen (CH)	7/2013
Preliminary life history responses of thermal experimental evolution lines in <i>Sepsis punctum</i> Experimental Evolution Symposium ETHZ, Zürich (CH)	6/2013
Size-dependent insect flight energetics at different temperatures and sugar supplies Annual Conference of the Japanese Society of Applied Entomology & Zoology, Fujisawa (Jp)	3/2013
Higher tier structural and functional effects of Ivermectin on dung fauna biodiversity UBA Workshop on Effects of Livestock Medications on the Dung Fauna, Flörsheim (D)	10/2012
Diapause in latitudinal yellow dung fly and water strider populations – what lessons to be learned? Workshop on Insect Diapause, Konnevesi Research Station (SF)	2/2011
Intra-specific latitudinal clines = thermal adaptation in the yellow dung fly ? XI. Congress of the European Society for Evolutionary Biology, Uppsala (S)	8/2007
Latitudinal clines = Thermal adaptation ? Expert workshop on thermal adaptation in ectotherms, Barcelona (E)	3/2007
Bergmann and other rules: Thermal adaptation in insects DZG Studiengruppe Evolutionsbiologie Tagung, Bayreuth (D)	2/2007
Sexual selection in <i>Sepsis cynipsea</i> : What makes females willing to copulate? 6 th International Dipterology Congress, Fukuoka (JP)	9/2006
Does sexual size dimorphism in insects imply a similar development time difference of the sexes? Workshop on Sexual Size Dimorphism, Monte Verità, Ascona (CH)	8/2005
Bergmann's rule, the converse Bergmann rule and countergradients. Symposium on thermal adaptation; Society of Integrative & Comparative Biology, New Orleans, (USA)	1/2004
Selection, Rensch's rule and the evolution of sexual size dimorphism in dung flies IX. Congress of the European Society for Evolutionary Biology, Leeds (GB)	8/2003
Die Evolution des geschlechtlichen Körpergrössendimorphismus bei Insekten Tagung der Schweizerischen Entomologischen Gesellschaft, Zürich (CH)	3/2003
No intrinsic cost of large body size in the yellow dung fly VIII. International Behavioral Ecology Conference, Montréal (CAN)	7/2002
The evolutionary interplay of sexual selection and sexual size dimorphism in two dung fly species	2/2002



Symposium on Sexual Selection and Sperm Competition, Freiburg (D)	
Warum man die isolierte Vorlesung abschaffen sollte (und das Skript gleich mit) Universitäre Lehre im Wandel - Symposium beider Zürcher Hochschulen (CH)	3/2001
The trade-off between egg size and number in the yellow dung fly in good and bad environments VII. Congress of the European Society for Evolutionary Biology, Barcelona (E)	8/1999
Female choice of large males in the dung fly <i>Sepsis cynipsea</i> - Fisher's runaway or good genes? Association for the Study of Animal Behaviour Winter Meeting, London (GB)	12/1998
Adaptive phenotypic plasticity in growth rate in the yellow dung fly VI. Congress of the European Society for Evolutionary Biology, Arnhem (NL)	7/1997
Linking individual and population measures of sexual selection on body size in the dung fly <i>Sepsis cynipsea</i> VI. International Behavioral Ecology Conference, Canberra (AUS)	10/1996
Life history dependent behavioural variation in water striders XX. International Congress of Entomology, Florence (I)	8/1996
Räumliche und zeitliche Variation der sexuellen und natürlichen Selektion auf die Körpergrösse bei der Schwingfliege <i>Sepsis cynipsea</i> 88. Tagung der Deutschen Zoologischen Gesellschaft, Kaiserslautern (D)	6/1995
A quantitative test of generalized resource monopolization theory using water striders competing for food and mates V. International Behavioral Ecology Conference, Nottingham (GB)	8/1994
Life history adaptation along a latitudinal cline in water striders MPG-Tagung Populationsbiologie & Evolution, Tegernsee (D) 87. Tagung der Deutschen Zoologischen Gesellschaft, Jena (Poster) (D) IV. Congress of the European Society for Evolutionary Biology, Montpellier (F)	11/1994 5/1994 7/1993
Relating behavioral flexibility to life history flexibility: A field study of state-dependent behavior in water striders IV. International Behavioral Ecology Conference, Princeton (USA)	8/1992
Fitnesskonsequenzen alternativer Lebenslaufstrategien bei Wasserläufern 84. Tagung der Deutschen Zoologischen Gesellschaft, Tübingen (D)	5/1991
Fitnesskonsequenzen von Nahrungswahlstrategien bei Wasserläufern 12. Ethologentreffen, Wien (A)	9/1990
Voltinism differences in adjacent water strider populations: phenotypic plasticity or heritable responses to water temperature? IV. Conference of Evolutionary and Systematic Biology, College Park (Poster) (USA)	7/1990



Fitness consequences of foraging success in water striders III. International Behavioral Ecology Conference, Uppsala (S) Animal Behavior Society Meeting, Binghamton (USA)	8/1990 6/1990
Foraging groups of water striders: effects of variability in prey arrival and handling times Northeast Animal Behavior Society, Providence (USA)	9/1989

INVITED TALKS

Von der evolutionären Ökologie zur Ökotoxikologie und zurück -- Testverfahren für Antiparasitika von Zuchttieren im Grasland Veterinär-Umwelttagung Bern (CH)	11/2021
Thermal performance curves and life history responses of the dung fly <i>Sepsis punctum</i> to thermal experimental evolution BiologieInstitut, Universität Fribourg (CH) Zoology Department, Tel Aviv University (ISR) Zoologisches Institut, Universität Basel (CH) University of Stockholm (S)	3/2019 3/2017 5/2016 9/2016
A global ring study of higher-tier effects of Ivermectin on dung fauna biodiversity & dung degradation INECOL, Xalapa (Mexico)	4/2016
Ultimate and proximate causes of sexual size dimorphism in insects JIRCAS & University of Tsukuba (Jp)	4/2013
Sexual selection, sexual conflict and Rensch's Rule in insects Okayama University (Jp)	3/2013
Diapause, phenology & seasonality in latitudinal yellow dung fly and water strider populations – what lessons to be learned? Konnevesi Research Station, University of Jyväskylä (SF) INECOL, Xalapa (Mexico)	2/2011 4/2016
Bergmann's and other rules: Thermal adaptation and clinal variation in insects Kyoto University (Jp) Kyushu University (Jp) University of Konstanz (D) University of Arizona (USA) University of Kentucky (USA)	3/2013 3/2013 11/2008 3/2009 3/2009
Size-dependent insect flight energetics at different sugar supplies. Stockholm University (S) University of Arizona (USA) Aarhus University (DK)	5/2008 3/2009 5/2011



Does sexual size dimorphism in insects imply a similar development time difference of the sexes? Okayama University (Jp) Universität Fribourg (CH)	3/2013 1/2006
Ueber Bergmann's und andere Regeln: Klimatische Anpassung bei Insekten. NLU Universität Basel (CH)	1/2006
Evolutionäre Muster der Körpergrösse bei Insekten: Über Rensch's, Bergmann's und die inverse Bergmann-Regel? Universität Bielefeld (D)	12/2003
Erklärt die sexuelle Selektion Rensch's Regel? Dungfliegen als Beispiel Universität Bremen (D)	6/2003
Die Evolution des geschlechtlichen Körpergrössendimorphismus bei Insekten Universität Bielefeld (D) Universität Bonn (D) Universität Würzburg (D)	6/2002 7/2003 5/2004
Die Koevolution der Körpergrösse von Männchen und Weibchen Volkshochschule Zürich (CH)	5/2001
Factors affecting the evolution of body size and sexual size dimorphism University of Jyväskylä (SF) University of Manchester (GB) Universität Copenhagen (DK) Universität Basel (CH) Uppsala University (S) Universität Fribourg (CH) Universität Bern (CH)	5/1999 10/2000 8/2001 12/2001 3/2003 5/2003 6/2003
Die Ökologie und Evolution der Körpergrösse am Beispiel dreier Insektenarten Universität Erlangen (D) Universität Graz (A) Universität Fribourg (CH) Freie Universität Berlin (D) Konrad Lorenz Insitut für Vergleichende Verhaltensforschung (A)	7/1999 3/1999 2/2000 12/2000 10/2001
Einflüsse der natürlichen Selektion auf die Evolution des Körpergrössendimorphismus bei Dungfliegen Universität Bonn (D) Universität Leipzig (D) Österreichische Akademie der Wissenschaften, Wien (A) Universität Hamburg (D) Ludwig-Maximilians-Universität München (D)	10/1998 1/2001 9/2001 1/2002 4/2003
Die natürliche Selektion als zentrale Arbeitshypothese in der organismischen Biologie Senioren-Universät Zürich (CH) Universität Zürich (CH)	11/2002 6/1998



Adaptive phenotypic plasticity in growth rate in the yellow dung fly Universität Bern (CH) Université de Neuchâtel (CH)	5/1998 3/1998
Lebenszyklusanpassung und phänotypische Plastizität bei aquatischen und terrestrischen Insekten Universität Mainz (D) Universität Freiburg (D) Universität Bielefeld (D) Universität Zürich (CH) Technische Universität Darmstadt (D)	2/1997 1/1997 11/1996 10/1996 5/1996
A quantitative test of generalized resource monopolization theory using water striders competing for food and mates Universität Bern (CH)	4/1994
The evolution of sexual size dimorphism in dung flies and water striders ETH Zürich (CH)	2/1994
Geographische Lebenszyklusanpassung einer nordamerikanischen Wasserläuferart Universität Zürich (CH)	1/1994
Life history variation along a latitudinal cline in <i>Aquarius remigis</i> Concordia University, Montréal (CAN)	3/1993
Causes and fitness consequences of alternative life histories in water striders Universität Zürich (CH) Universität Bern (CH) Concordia University, Montréal (CAN)	11/1991 11/1991 10/1990
Fitness consequences of foraging success in water striders State University of New York at Binghamton (USA)	5/1990
Foraging groups of water striders: effects of variability in prey arrival and handling times Universität Tübingen (D) Universität Würzburg (D) Max-Planck-Institut für Verhaltensphysiologie, Seewiesen (D)	1/1990 1/1990 1/1990