LIST OF PUBLICATIONS

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as of October 10th, 2018, my articles have been cited 612 times with an h-index of 13 (Google Scholar)

PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

(1) Grubbs KJ, Surup F, **Biedermann PHW**, McDonald B, Klassen J, Clardy J & Currie CR (*in rev.*) Cycloheximide producing *Streptomyces* associated with *Xyleborinus saxesenii* and *Xyleborus affinis* Ambrosia beetles. ***mSphere**, in revision*

(2) Seibold S, Mueller J, Baldrian P, Cadotte MW, Stursova M, **Biedermann PHW**, Krah FS & Baessler C (in rev.) Fungi vectored by beetles dispersing from dead wood – Let´s take the beetle bus! ***Fungal Ecology***, *in revision*

(3) **Biedermann PHW** & Nuotcla JA (2018) Sociality in beetles. ***Encyclopedia of Social Insects***, *in press*

(4) Lehenberger M, **Biedermann PHW (shared last authorship)** & Benz JP (2018) Molecular identification and enzymatic profiling of *Trypodendron* ambrosia beetle-associated fungi of the genus *Phialophoropsis*. ***Fungal Ecology***, *in press*

(5) Lehenberger M, Benz PJ, Mueller J & **Biedermann PHW** (2018) Buchen- und Linierter Nutzholzborkenkäfer (*Trypodendron domesticum* und *T. lineatum)* als potentielle Vektoren von xylobionten Pilzen sowie Träger von Ambrosiapilzen. ***Mitteilungen der Deutschen Gesellschaft für allgemeine und angewandte Entomologie,** in press*

(6) Ranger CM, **Biedermann PHW (shared first authorship)**, Phuntumart V, Beligala GU, Ghosh S, Palmquist DE, Mueller R, Barnett J, Schultz PB, Reding ME and Benz JP (2018): Symbiont selection via alcohol benefits fungus farming by ambrosia beetles. ***Proceedings of the National Academy of Sciences*** 115(17), 4447-4452. Links to newspaper articles about this work: National Geographic, Science, science.orf.at, Die Zeit

(7) Van de Peppel LJJ, Aanen DK & **Biedermann PHW** (2018) Low intraspecific genetic diversity indicates asexuality and vertical transmission in the fungal cultivars of ambrosia beetles. ***Fungal Ecology*** 32: 57-64.

(8) Birkmoe T, Sverdrup-Thygeson A, Jacobsen RM, **Biedermann PHW** (2018) Insect-fungus interactions in dead wood. In M Ulyshen (Ed.), ***Saproxylic Insects.*** Heidelberg: Springer, pp. 377-427. (book chapter)

(9) **Biedermann PHW** & Rohlfs M (2017) Evolutionary feedbacks between insect sociality and microbial management. ***Current Opinion in Insect Science*** 22: 92-100.

(10) Vega FE, Simpkins A, Rodriguez-Soto MM, Infante F & **Biedermann PHW** (2016): Artificial diet sandwich reveals subsocial behaviour in the coffee berry borer *Hypothenemus hampei* (Coleoptera: Curculionidae: Scolytinae). ***Journal of Applied Entomology*** 141: 470-476.

(11) Dohet L, Gregoire JC, Kaltenpoth M, Berasategui A & **Biedermann PHW** (2016): Bacterial and fungal symbionts of parasitic *Dendroctonus* bark beetles. ***FEMS Microbiology Ecology*** 92 (9).

(12) Mayers CG, McNew DL, Harrington TC, Roeper RA, Fraedrich SW, **Biedermann PHW**, Castrillo LA, & Reed S (2015): Three lineages within the Ceratocystidaceae adapted to symbiosis with three ambrosia beetle tribes with large mycangia. ***Fungal Biology*** 119: 1075-92.

(13) Flórez L, **Biedermann PHW (shared first authorship)**, Engl T & Kaltenpoth M (2015): Defensive symbioses of animals with prokaryotic and eukaryotic microorganisms. ***Natural Product Reports*** 32(7):904-36.

(14) Kirkendall LR, **Biedermann PHW** & Jordal BH (2015): Evolution and Diversity of Bark and Ambrosia Beetles. In FE Vega, RW Hofstetter (Eds.), ***Bark Beetles: Biology and Ecology of Native and Invasive Species.*** San Diego: Academic Press, pp. 85-156. (book chapter)

(15) Nuotcla JA, Taborsky M & **Biedermann PHW** (2014): The importance of blocking behaviour in the ambrosia beetle *Xyleborinus saxesenii* Ratzeburg (Coleoptera; Scolytinae). ***Mitteilungen der Deutschen Gesellschaft für allgemeine und angewandte Entomologie*** 19: 203-210.

(16) **Biedermann PHW** (2014): Evolution of cooperation in ambrosia beetles. ***Mitteilungen der Deutschen Gesellschaft für allgemeine und angewandte Entomologie*** 19: 191-202.
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(17) **Biedermann PHW** & Kaltenpoth M (2014): New synthesis: The chemistry of partner choice in insect-microbe mutualisms. ***Journal of Chemical Ecology*** 40: 99.

(18) Aylward FO, Suen G, **Biedermann PHW**, Adams AS, Scott JJ, Malfatti SA, del Rio TG, Tringe SG, Poulsen M, Raffa KF, Klepzig KD & Currie CR (2014): Convergent bacterial Microbiotas in the fungal agricultural systems of insects. ***mBio*** 5(6): e02077-14.

(19) **Biedermann PHW**, Klepzig KD, Taborsky M & Six DL (2013): Abundance and dynamics of filamentous fungi in the complex ambrosia gardens of the primitively eusocial beetle *Xyleborinus saxesenii* Ratzeburg (Coleoptera: Curculionidae, Scolytinae). ***FEMS Microbiology Ecology*** 83(3): 711-723.

(20) **Biedermann PHW**, Peer K & Taborsky M (2012): Female dispersal and reproduction in the ambrosia beetle *Xyleborinus saxesenii* Ratzeburg (Coleoptera; Scolytinae). ***Mitteilungen der Deutschen Gesellschaft für allgemeine und angewandte Entomologie*** 18: 231-235.

(21) De Fine Licht HH & **Biedermann PHW** (2012): Patterns of functional enzyme activity in *Xyleborinus saxesenii* fungus-growing ambrosia beetles. ***Frontiers in Zoology*** 9:13.

(22) Grubbs K.J., **Biedermann PHW**, Suen G., Adams S.M., Moeller J.A., Klassen J.L., Goodwin L.A., Woyke T., Munk A.C., Bruce D., Detter C., Tapia R., Han C.S. & Currie C.R. (2011): Complete genome sequence of *Streptomyces* cf. *griseus* (XyelbKG-1 1), an ambrosia beetle-associated actinomycete. ***Journal of Bacteriology*** 193(11): 2890–2891.

(23) **Biedermann PHW** & Taborsky M (2011): Larval helpers and age polyethism in ambrosia beetles. ***Proceedings of the National Academy of Science USA*** 108(41): 17064-17069.
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(24) **Biedermann PHW**, Klepzig KD & Taborsky M (2011): Costs of delayed dispersal and alloparental care in the fungus-cultivating ambrosia beetle *Xyleborus affinis* Eichhoff (Scolytinae: Curculionidae). ***Behavioral Ecology & Sociobiology*** 65:1753–1761.

(25) **Biedermann PHW** (2010) Observations on sex ratio and behavior of males in *Xyleborinus saxesenii* Ratzeburg (Scolytinae, Coleoptera). In: Cognato AI, Knížek M (Eds) Sixty years of discovering scolytine and platypodine diversity: A tribute to Stephen L. Wood. ***Zookeys*** 56: 253-267.

(26) **Biedermann PHW**, Klepzig KR & Taborsky M (2009) Fungus cultivation by ambrosia beetles: Behavior and laboratory breeding success in three Xyleborine species. ***Environmental Entomology*** 38(4): 1096-1105.

(27) Delhey K, Peters A, **Biedermann PHW** & Kempenaers B (2008) Optical properties of the uropygial gland secretion: no evidence for UV cosmetics in birds. ***Naturwissenschaften*** 95(10): 939-946.

(28) Kärcher MH, **Biedermann PHW**, Hrassnigg N & Crailsheim K (2008) Predator-prey interaction between drones *A. m. carnica* and swallows *Hirundo rustica* or *Delichon urbica*. ***Apidology*** 39(3): 302-309.

(29) **Biedermann PHW** (2006) Hidden leks in the Yellow-browed Warbler (*Phylloscopus inornatus*)? - Investigations from the Khan Khentey Reserve (Mongolia). ***Acrocephalus*** 27: 233-247.

POPULAR SCIENCE ARTICLES

(1) **Biedermann PHW** (2018) Warum diese Käfer Alkohol lieben – und was wir von ihnen lernen können. ***Focus Online*** *Link* (11.4.2018)

(2) Van de Peppel L, Wisselink M, Aanen DK & **Biedermann PHW** (2017) Genetic diversity in fungal symbionts of ambrosia beetles in Europe. ***DGaaE Nachrichten***

(3) Uhe C & **Biedermann PHW** (2016) Heimische Ambrosiakäfer: Sozialverhalten und Funktion im Ökosystem Wald. ***Artenschutzreport*** 35: 67-68. Jena, Germany.

(4) **Biedermann PHW** (2016) Verborgen unter Blattwerk. Buchrezension zu „Bäume und ihre Bewohner“. ***Spektrum der Wissenschaften*** 9/2016, 86.

(5) **Biedermann PHW** (2014) Käfer als Pilzzüchter – Biologie und Beobachtungsanleitung von Ambrosiakäfern. ***Artenschutzreport*** 33: 43-45. Jena, Germany.

(6) **Biedermann PHW** (2013) Käfer als fleißige Gärtner. ***ÖAW Young Science*** 30/5/2013, ORF Vienna. science.orf.at

(7) **Biedermann PHW** (2013) Kinderarbeit bei Gottes Käfern. ***Bild der Wissenschaften***, Sonderbeilage.

(8) **Biedermann PHW** & Kärcher MH (2008) Weather-dependent activity and flying height of Barn Swallows (*Hirundo rustica*) and House Martins (*Delichon urbica*) in southwestern Styria. ***Egretta*** 50: 76-81. links to newspaper articles about this work: Neue Züricher Zeitung, Uniaktuell, derStandard

(9) **Biedermann PHW** (2003) Die Kraniche der Welt. ***Zool. Newsletter*** 2; Landesmuseum Joanneum Graz.

THESES

- **Biedermann PHW** (2012): Evolution of Cooperation in Ambrosia beetles. Ph.D. thesis, Univ. of Bern
- **Biedermann PHW** (2007): Evolution of Social Behaviour in Ambrosia beetles. MSc thesis, Univ. of Bern
- **Biedermann PHW** (2005): Breeding Ecology of the Yellow-browed Warbler. BSc thesis, Univ. of Graz