

Arbeiten mit Wildbienen von Stefan Dötterl

(Stand April 2023)

Sonnleitner, M.; Schoder, S.; Macek, O.; Leeb, Ch.; Bräuchler, Ch.; Haring, E.; Dötterl, S.; Eckelt, A.; Fauster, R.; Glatzhofer, E.; Graf, E.; Gros, P.; Heimburg, H.; Heiss, E.; Hinterstoisser, W.; Kirchweger, S.; Koblmüller, S.; Komposch, Ch.; Link, A.; Rabl, D.; Rupp, T.; Schlager, M.; Streinzer, M.; Strutzberg, H.; Timaeus, L.; Wagner, H. C.; Wiesmair, B.; Zimmermann D. & Szucsich N. U.: Beitrag der ABOL-BioBlitze zur österreichischen Biodiversitäts-Erfassung:DNA-Barcodes aus 2019 und 2020. Acta ZooBot Austria 158, 2022, 81-95. https://www.zobodat.at/pdf/VZBG_158_0081-0095.pdf

Tribsch, A.; Habel, J.C. & Dötterl, S.: Die Biodiversität im Salzburger Land nimmt ab. JBZ arbeitspapiere 59: Salzburg morgen – Die Szenariostudie. Welche Entwicklungen werden Salzburg im Jahr 2040 prägen? 2022, 144-161. <https://jungk-bibliothek.org/wp-content/uploads/2022/11/AP-59-Salzburg-Morgen-2022.pdf>

Wallner, W., Brandauer, S. S., Neumayer, J., Rupp, T., Schlager, M. & Dötterl, S.: Nachweise neuer und wenig bekannter Bienenarten aus Salzburg (Hymenoptera, Apoidea). 3. Beitrag. Mitteilungen aus dem Haus der Natur. 28, 2023, 50-55.

Brandt, K.; Dötterl, S.; Ramírez, R. R.; Etl, F.; Machado, I. C.; Navarro, D. M. D. A. F.; Dobler, D.; Reiser, O.; Ayasse, M.; Milet-Pinheiro, P.: Unraveling the Olfactory Biases of Male Euglossine Bees: Species-Specific Antennal Responses and Their Evolutionary Significance for Perfume Flowers. *Front. Ecol. Evol.* 9:727471. doi: 10.3389/fevo.2021.727471

Braunschmid, H; Guilhot, R; Dötterl, S: Floral scent and pollinators of *Cypripedium calceolus* L. at different latitudes. *Diversity*, 31, 5 (2021). <https://www.mdpi.com/1424-2818/13/1/5>

Burger, H.; Marquardt, M.; Babucke, K.; Heuel, K. C.; Ayasse, M.; Dötterl, S.; Galizia, C. G.: Neural and behavioural responses of the pollen-specialist bee *Andrena vaga* to *Salix odours*. *J Exp Biol* (2021) 224 (13): jeb242166.

Cordeiro, GD; Liporoni, R; Caetano, CA; Krug, C; Martínez-Martínez, CA; Martins, HOJ; Cardoso, RKO; Araujo, FF; Araújo, PCS; Oliveira, R; Schlindwein, C; Warrant, EJ; Dötterl, S; Alves-dos-Santos, I: Nocturnal bees as crop pollinators. *Agronomy* 2021, 11(5), 1014

Jiménez, P. D.; Henrich, H.; Dötterl, S.; Krömer, T.; MacSwiney G, M. Ch.; Aguilar-Rodríguez, A.: Reproductive biology of two *Spathiphyllum* (Araceae) species in Los Tuxtlas, Veracruz, Mexico. *Flora* 2021 (285).

Martínez-Martínez, C. A.; Cordeiro, G. D.; Martins, H. O. J.; Kobal, R. O. A. C.; Milet-Pinheiro, P.; Stanton, M. A.; Franco, E. L.; Krug, C.; Mateus, S.; Schllindwein, C.; Dötterl, S.; Alves-dos-Santos, I.: Floral Volatiles: A Promising Method to Access the Rare Nocturnal and Crepuscular Bees. *Frontiers in Ecology and Evolution*, 9, 676743 (2021)

Milet-Pinheiro, P; Domingos-Melo, A; de Oliveira Júnior, JD; de Albuquerque, NSL; da Costa, ACG; de Lima, SA; da Silva, MFR; Navarro, DMdAF; Maia, ACD; Gundersen, LL;

Schubert, M; Dötterl, S; Machado, IC: A semivolatile floral scent marks the shift to a novel pollination system in bromeliads. *Current Biology*, 31, 860-868 (2021)

Schoder, S; Dötterl, S; Papenberg E: Wild, parasitisch und königlich –Bienen (Apiformes). *Carinthia II*, 130, 34 (2020)

Brandt, K; Dötterl, S; Fuchs, R; Navarro, DMDF; Machado, ICS; Dobler, D; Reiser, O; Ayasse, M; Milet-Pinheiro, P: Subtle chemical variations with strong ecological significance: stereoselective response of male orchid bees to stereoisomers of carvone epoxide. *Journal of Chemical Ecology*, 45, 464-473 (2019)

Zito, P; Tavella, F; Pacifico, D; Campanella, V; Sajeva, M; Carimi, F; Ebmer, AW; Dötterl, S: Interspecific variation of inflorescence scents and insect visitors in *Allium* (Amaryllidaceae – Allioideae). *Plant Systematics and Evolution*, 305, 727-741 (2019)

Weber, A.; Gerlach, G.; Dötterl, S.: Die großen wissenschaftlichen Leistungen von Stefan Vogel (1925-2015) Teil 5b. Öl statt Nektar – die Ölblumen (dikotyle Vertreter). *Der Palmengarten* 82, 2 (Nov. 2019), 48-65

Weber, A.; Gerlach, G.; Dötterl, S.: Die großen wissenschaftlichen Leistungen von Stefan Vogel (1925-2015) Teil 5a. Öl statt Nektar – die Ölblumen (Allgemeine Aspekte). *Der Palmengarten* 82, 1 (Juli 2019), 49-61

Krug, C; Cordeiro, C; Schäffler, I; Inês Silva, C; Oliveira, R; Schlindwein, C; Dötterl, S; Alves-dos-Santos, I: Nocturnal bee pollinators are attracted to guarana flowers by their scents. *Frontiers in Plant Science*, 9:1072. doi: 10.3389/fpls.2018.01072 (2018)

Siqueira, E; Oliveira, R; Dötterl, S; Cordeiro, GD; Alves-dos-Santos, I; Mota, T; Schlindwein, C: Pollination of *Machaerium opacum* (Fabaceae) by nocturnal and diurnal bees. *Arthropod-Plant Interactions*, 12, 633–645 (2018)

Brandt, K; Dötterl, S; Francke, W; Ayasse, M; Milet-Pinheiro, P: Flower visitors of *Campanula*: are oligoleges more sensitive to host-specific floral scents than polylogues? *Journal of Chemical Ecology*, 43, 4-12 (2017)

Braunschmid, H; Mükisch, B; Rupp, T; Schäffler, I; Zito, P; Birtele, D; Dötterl, S: Interpopulation variation in pollinators and floral scent of the lady's-slipper orchid *Cypripedium calceolus* L. *Arthropod-Plant Interactions*, 11, 363–379 (2017). <https://link.springer.com/article/10.1007/s11829-017-9512-x>

Cordeiro, GD; Pinheiro, M; Dötterl, S; Alves-dos-Santos, I: Pollination of *Campomanesia phaea* (Myrtaceae) by night-active bees: a new nocturnal pollination system mediated by floral scent. *Plant Biology*, 19, 132-139 (2017)

Etl, F; Franschitz, A; Aguiar, AJC; Schönenberger, J; Dötterl, S: A perfume-collecting male oil bee? Evidences of a novel pollination system involving *Anthurium acutifolium* (Araceae) and *Paratetrapedia chocoensis* (Apidae, Tapinotaspidini). *Flora*, 232, 7-15 (2017)

Neumayer, J; Wallner, W; Dötterl, S: Nachweise neuer und wenig bekannter Bienenarten aus Salzburg. *Mitteilungen aus dem Haus der Natur*, 24, 5-11 (2017)

Milet-Pinheiro, P; Herz, K; Dötterl, S; Ayasse, M: Host choice in a bivoltine bee: how sensory constraints shape innate foraging behaviors. *BMC Ecology*, 16:20 (2016)

Milet-Pinheiro, P; Ayasse, M; Dötterl, S: Visual and olfactory floral cues of *Campanula* (Campanulaceae) and their significance for host recognition by an oligolectic bee pollinator. *PLOS ONE* 10(6): e0128577. doi:10.1371/journal.pone.0128577 (2015)

Milet-Pinheiro, P; Navarro, DMdAF; Dötterl, S; Carvalho, AT; Pinto, CE; Ayasse, M; Schlindwein, C: Pollination biology in the dioecious orchid *Catasetum uncatum*: how does floral scent influence the behavior of pollinators? *Phytochemistry* 116: 149-161 (2015)

Schäffler, I; Steiner, KE; Haid, M; van Berkel, SS; Gerlach, G; Johnson, SD; Wessjohann, L; Dötterl, S: Diacetin, a reliable cue and private communication channel in a specialized pollination system. *Scientific Reports* 5, 12779: doi:10.1038/srep12779 (2015)

Carvalho, AT; Dötterl, S; Schlindwein, C: An aromatic volatile attracts oligolectic bee pollinators in an interdependent bee-plant relationship. *Journal of Chemical Ecology*, 40, 1126-1134 (2014)

Jürgens, A; Glück, U; Aas, G; Dötterl, S: Diel fragrance pattern correlates with olfactory preferences of diurnal and nocturnal flower visitors in *Salix caprea* (Salicaceae). *Botanical Journal of the Linnean Society*, 175, 624-640 (2014)

Burger, H; Ayasse, M; Dötterl, S; Kreissl, S; Galizia, CG: Perception of floral volatiles involved in host-plant finding behaviour: comparison of a bee specialist and generalist, *Journal of Comparative Physiology A*, 199, 751-761 (2013)

Milet-Pinheiro, P; Ayasse, M; Dobson, HEM; Schlindwein, C; Francke, W; Dötterl, S: The chemical basis of host-plant recognition in a specialized pollinator, *Journal of Chemical Ecology*, 39, 1347-1360 (2013)

Dötterl, S: Wie Blumen sprechen: das Ölblume-Ölbiene-Bestäubungssystem, In: *Die Vielfalt des Lebens* edited by E. Beck. Wiley-VHC Verlag & Co. KGaA. (2013)

Burger, H; Dötterl, S; Häberlein, CM; Schulz, S; Ayasse, M: An arthropod deterrent attracts specialised bees to their host plants, *Oecologia*, 168, 727–736 (2012)

Lunau, K; Dötterl, S; Eltz, T: Attraction of *Euglossa igniventris* females to odorous substances, *Mitteilungen der Deutschen Gesellschaft für Allgemeine und Angewandte Entomologie*, 16, 305-308 (2012)

Milet-Pinheiro, P; Ayasse, M; Schlindwein, C; Dobson, HEM; Dötterl, S: Host location by visual and olfactory floral cues in an oligolectic bee: innate and learned behavior, *Behavioral Ecology*, 23, 531-538 (2012)

Dötterl, S; Milchreit, K; Schäffler, I: Behavioural plasticity and sex differences in host finding of a specialized bee species, *Journal of Comparative Physiology A*, 197, 1119-1126 (2011)

Schäffler, I; Dötterl, S: A day in the life of an oil bee: Phenology, nesting & foraging behavior, *Apidologie*, 42, 409-424 (2011)

Burger, H; Ayasse, M; Häberlein, CM; Schulz, S; Dötterl, S: *Echium* and *Pontechium* specific floral cues for host-plant recognition by the oligolectic bee *Hoplitis adunca*, South African Journal of Botany, 76, 788-795 (2010)

Burger, H; Dötterl, S; Ayasse, M: Host-plant finding and recognition by visual and olfactory floral cues in an oligolectic bee, Functional Ecology, 24, 1234-1240 (2010)

Dötterl, S; Vereecken, NJ: The chemical ecology and evolution of bee-flower interactions: a review and perspectives, Canadian Journal of Zoology, 88, 668-697 (2010)

Teichert, H; Dötterl, S; Zimma, B; Ayasse, M; Gottsberger, G: Perfume-collecting male euglossine bees as pollinators of a basal angiosperm: the case of *Unonopsis stipitata* (Annonaceae), Plant Biology, 11, 29-37 (2009)

Burger, H; Dötterl, S; Ayasse, M: Importance of olfactory and visual cues of Echium for host-plant finding of the oligolectic bee *Osmia adunca* (Megachilidae)., Mitteilungen der Deutschen Gesellschaft für Allgemeine und Angewandte Entomologie, 16, 163-166 (2008)

Dötterl, S: Antennal responses of an oligolectic bee and its cleptoparasite to plant volatiles, Plant Signaling & Behavior , 3(5), 296-297 (2008)

Dötterl, S; Schäffler, I: Flower scent of floral-oil producing *Lysimachia punctata* as cue for the oil-bee *Macropis fulvipes*, Journal of Chemical Ecology, 33, 441-445 (2007)

Dötterl, S; Füssel, Ulrike; Jürgens, A; Aas, G: 1,4-Dimethoxybenzene, a floral scent compound in willows that attracts an oligolectic bee, Journal of Chemical Ecology, 31(12), 2993-2998 (2005)

Dötterl, S; Hartmann, P: Die Bienenfauna des Ökologisch-Botanischen Gartens der Universität Bayreuth (Hymenoptera: Apidae) ., Nachrichtenblatt der Bayerischen Entomologen, 52(1-2), 2-20 (2003)