

Refereed scientific publications

- (44) Seehausen M.L., Valenti R., Fontes J., Meier M., Marazzi C., **Mazzi D.**, Kenis M. 2022. Large-arena field cage releases of a candidate classical biological control agent for spotted wing drosophila suggest low risk to non-target species. *Journal of Pest Science* 95, 1057-1065.
- (43) Grünig M., Razavi E., Calanca P., **Mazzi D.**, Wegner J. D., Pellissier L. 2021. Applying deep neural networks to predict incidence and phenology of plant pests and diseases. *Ecosphere* 12, e03791.
- (42) Siffert A., Cahenzli F., Kehrl P., Daniel C., Dekumbis V., Egger B., Furtwengler J., Minguely C., Stäheli N., Widmer F., **Mazzi D.**, Collatz J. 2021. Predation on *Drosophila suzukii* within hedges in the agricultural landscapes. *Insects* 12, 305.
- (41) Knapp L., **Mazzi D.**, Finger R. 2021. The economic impact of *Drosophila suzukii*: perceived costs and revenue losses of Swiss cherry, plum and grape growers. *Pest Management Science* 77, 978-1000.
- (40) Grünig M., Calanca P., **Mazzi D.**, Pellissier L. 2020. Inflection point in climatic suitability of insect pest species in Europe suggests non-linear responses to climate change. *Global Change Biology* 26, 6338-6349.
- (39) Collier R., **Mazzi D.**, Folkedal Schjøll A., Schorpp Q., Thöming G., Johansen T. J., Meadow R., Meyling N. V., Cortesero A.-M., Vogler U., Gaffney M. T., Hommes M. 2020. The potential for decision support tools to improve the management of root-feeding fly pests of vegetables in Western Europe. *Insects* 11, 369.
- (38) Grünig M., **Mazzi D.**, Calanca P., Karger D. N., Pellissier L. 2020. Crop and forest pest metawebs shift towards increased linkage and suitability overlap under climate change. *Communications Biology* 3, 233.
- (37) Knapp L., **Mazzi D.**, Finger R. 2019. Management strategies against *Drosophila suzukii*: insights into Swiss grape growers' choices. *Pest Management Science* 75, 2820-2829.
- (36) Hennig E. I., **Mazzi D.** 2018. Spotted wing drosophila in sweet cherry orchards in relation to forest characteristics, bycatch, and resource availability. *Insects* 9, 118.
- (35) **Mazzi D.**, Bravin E., Meraner M., Finger R., Kuske S. 2017. Economic impact of the introduction and establishment of *Drosophila suzukii* on sweet cherry production in Switzerland. *Insects* 8, 18.
- (34) Ferrer A., **Mazzi D.**, Dorn S. 2014. Stay cool, travel far: cold-acclimated oriental fruit moth females have enhanced flight performance but lay fewer eggs. *Entomologia Experimentalis et Applicata* 151, 11-18.
- (33) Ferrer A., Dorn S., **Mazzi D.** 2013. Cross-generational effects of temperature on flight performance, and associated life-history traits in an insect. *Journal of Evolutionary Biology* 26, 2321-2330.
- (32) Ketola T., Kotiaho J. S., **Mazzi D.**, Puurtinen M. 2013. Inbreeding depression in intraspecific metabolic scaling. *Animal Biology* 63, 357-367.
- (31) Kirk H., Dorn S., **Mazzi D.** 2013. Molecular genetics and genomics generate new insights into invertebrate pest invasions. *Evolutionary Applications* 6, 842-856.
- (30) Kirk H., Dorn S., **Mazzi D.** 2013. Worldwide population genetic structure of the oriental fruit moth (*Grapholita molesta*), a globally invasive pest. *BMC Ecology* 13, 12.
- (29) Ruf D., Dorn S., **Mazzi D.** 2013. Unexpectedly low frequencies of diploid males in an inbreeding parasitoid with complementary sex determination. *Biological Journal of the Linnean Society* 108, 79-86.

- (28) Lagisz M., Wen S.-Y., Routtu J., Klappert K., **Mazzi D.**, Morales-Hojas R., Schäfer M. A., Vieira J., Hoikkala A., Ritchie M. G., Butlin R. K. 2012. Two distinct genomic regions, harbouring the *period* and *fruitless* genes, affect male courtship song in *Drosophila montana*. *Heredity* 108, 602-608.
- (27) **Mazzi D.**, Dorn S. 2012. Movement of insect pests in agricultural landscapes. *Annals of Applied Biology* 160, 97-113.
- (26) Jennings J. H., **Mazzi D.**, Ritchie M. G., Hoikkala A. 2011. Sexual and postmating reproductive isolation between allopatric *Drosophila montana* populations suggest speciation potential. *BMC Evolutionary Biology* 11, 68.
- (25) **Mazzi D.**, Hatt F., Hein S., Dorn S. 2011. Ladies last: diel rhythmicity of adult emergence in a parasitoid with complementary sex determination. *Physiological Entomology* 36, 47-53.
- (24) Ruf D., Dorn S., **Mazzi D.** 2011. Females leave home for sex: natal dispersal in a parasitoid with complementary sex determination. *Animal Behaviour* 81, 1083-1089.
- (23) Elias J., Dorn S., **Mazzi D.** 2010. No evidence for increased extinction proneness with decreasing effective population size in a parasitoid with complementary sex determination and fertile diploid males. *BMC Evolutionary Biology* 10, 366.
- (22) Elias J., Dorn S., **Mazzi D.** 2010. Inbreeding in a natural population of the gregarious parasitoid wasp *Cotesia glomerata*. *Molecular Ecology* 19, 2336-2345.
- (21) Ruf D., **Mazzi D.**, Dorn S. 2010. No kin discrimination in female mate choice of a parasitoid with complementary sex determination. *Behavioral Ecology* 21, 1301-1307.
- (20) Schäfer M. A., **Mazzi D.**, Klappert K., Kauranen H., Vieira J., Hoikkala A., Ritchie M. G., Schlötterer C. 2010. A microsatellite linkage map for *Drosophila montana* shows large variation in recombination rates, and a courtship song trait maps to an area of low recombination. *Journal of Evolutionary Biology* 23, 518-527.
- (19) Torriani M. V. G., **Mazzi D.**, Hein S., Dorn S. 2010. Structured populations of the oriental fruit moth in an agricultural ecosystem. *Molecular Ecology* 19, 2651-2660.
- (18) Torriani M. V. G., **Mazzi D.**, Hein S., Dorn S. 2010. Direct and correlated responses to artificial selection on flight activity in the oriental fruit moth (Lepidoptera: Tortricidae). *Biological Journal of the Linnean Society* 100, 879-889.
- (17) Elias J., **Mazzi D.**, Dorn S. 2009. No need to discriminate? Reproductive diploid males in a parasitoid with complementary sex determination. *PLoS ONE* 4, e6024.
- (16) **Mazzi D.**, Kesäniemi J., Hoikkala A., Klappert K. 2009. Sexual conflict over the duration of copulation in *Drosophila montana*: why is longer better? *BMC Evolutionary Biology* 9, 132.
- (15) Frommen J. G., Luz C., **Mazzi D.**, Bakker T. C. M. 2008. Inbreeding depression affects fertilization success and survival but not breeding coloration in threespine sticklebacks. *Behaviour* 145, 425-441.
- (14) Klappert K., **Mazzi D.**, Hoikkala A., Ritchie M. G. 2007. Male courtship song and female preference variation between phylogeographically distinct populations of *Drosophila montana*. *Evolution* 61, 1481-1488.
- (13) Routtu J., **Mazzi D.**, van der Linde K., Mirol P., Butlin R. K., Hoikkala A. 2007. The extent of variation in male song, wing and genital characters among allopatric *Drosophila montana* populations. *Journal of Evolutionary Biology* 20, 1591-1601.
- (12) Bakker T. C. M., **Mazzi D.**, Kraak S. B. M. 2006. Broods of attractive three-spined stickleback males require greater paternal care. *Journal of Fish Biology* 69, 1164-1177.

- (11) Hoikkala A., Klappert K., **Mazzi D.** 2005. Factors affecting male song evolution in *Drosophila montana*. *Current Topics in Developmental Biology* 67, 225-250.
- (10) **Mazzi D.** 2004. Parasites make male pipefish careless. *Journal of Evolutionary Biology* 17, 519-527.
- (9) **Mazzi D.**, Künzler R., Largiadèr C. R., Bakker T. C. M. 2004. Inbreeding affects female preference for symmetry in computer-animated sticklebacks. *Behavior Genetics* 34, 417-424.
- (8) **Mazzi D.**, Künzler R., Bakker T. C. M. 2003. Female preference for symmetry in computer-animated sticklebacks, *Gasterosteus aculeatus*. *Behavioral Ecology and Sociobiology* 54, 156-161.
- (7) **Mazzi D.**, Bakker T. C. M. 2003. A Predator's Dilemma: prey choice and parasite susceptibility in three-spined sticklebacks. *Parasitology* 126, 339-347.
- (6) Zbinden M., **Mazzi D.**, Künzler R., Largiadèr C. R., Bakker T. C. M. 2003. Courting virtual rivals increase ejaculate size in sticklebacks (*Gasterosteus aculeatus*). *Behavioral Ecology and Sociobiology* 54, 205-209.
- (5) Heckel G., Zbinden M., **Mazzi D.**, Kohler A., Reckeweg G., Bakker T. C. M., Largiadèr C. R. 2002. Microsatellite markers for the three-spined stickleback (*Gasterosteus aculeatus* L.) and their applicability in a freshwater and an anadromous population. *Conservation Genetics* 3, 79-81.
- (4) **Mazzi D.**, Largiadèr C. R., Bakker T. C. M. 2002. Inbreeding and developmental stability in three-spined sticklebacks (*Gasterosteus aculeatus* L.). *Heredity* 89, 293-299.
- (3) **Mazzi D.**, Bakker T. C. M. 2001. Acid stress increases pelvic spine asymmetry in juvenile three-spined sticklebacks. *Journal of Fish Biology* 59, 582-592.
- (2) Bakker T. C. M., Künzler R., **Mazzi D.** 1999. Condition-related mate choice in sticklebacks. *Nature* 401, 234.
- (1) Bakker T. C. M., **Mazzi D.**, Zala S. 1997. Parasite-induced changes in behavior and color make *Gammarus pulex* more prone to fish predation. *Ecology* 78, 1098-1104.

Non-refereed scientific and technical publications

- ▶ Violante A., **Mazzi D.** 2026. La minatrice *Aspilanta oinophylla*: una nuova sfida per i vigneti del canton Ticino. *Agricoltore Ticinese* 158(4), 16-17.
- ▶ **Mazzi D.** 2025. Un nouveau ravageur exotique a pris ses quartiers dans le vignoble du Tessin. *Journal Agri*, 28.11.2025, 17.
- ▶ Kehrl P., Grabenweger G., Weibel J., Collatz J., Egger B., Guyer A., Sutter L., Hiltbold I., Boss M., Gaume A., Carlen C., **Mazzi D.** 2025. Schadpotenzial und Bekämpfung des Japankäfers in der Schweizer Landwirtschaft. *Agrarforschung Schweiz*, 16, 2025, 118-131.
- ▶ Kehrl P., Grabenweger G., Weibel J., Collatz J., Egger B., Guyer A., Sann C., Sutter L., Horrocks K., Hiltbold I., Boss M., Gaume A., Carlen C., **Mazzi D.** 2025. The Japanese beetle (*Popillia japonica*), an invasive quarantine pest: Biology, spread, potential impact as well as monitoring and control measures. *Agroscope Transfer*, 581, 2025, 1-63.
- ▶ Frei G., Ferrante A., Butera L., Poretti M., Bassi M., **Mazzi D.** 2025. SmartTrap: un progetto per un migliore monitoraggio degli insetti nocivi. *Agricoltore Ticinese* 157(4), 14-15.
- ▶ **Mazzi D.** 2023. Miniermotte: Neuer Schädling im Rebbau der Südschweiz. *Obst+Wein* 159(17), 24-25.

- ▶ **Mazzi D.**, Cara C., Torriani L., Pezzatti G.B. and Jermini M. 2023. Exploiting the potential of indigenous natural enemies to control alien insect pests: the case study of the American grape leafminer *Phyllocnistis vitegenella* in southern Switzerland. *Acta Horticulturae* 1378, 17-22.
- ▶ Cachat-Terrettaz M., Christen D., Sarrasin C., Gilli C., **Mazzi D.**, Humair L., Seehausen M.L. 2023. Point sur la lutte contre la cochenille de Comstock. *Vignes Vergers* 5, 14-15.
- ▶ Seehausen M.L., Valenti R., Fontes J., Meier M., Marazzi C., **Mazzi D.**, Kenis M. 2022. Exotischer Gegenspieler der Kirschessigfliege vielversprechend. *Agrarforschung Schweiz*.
- ▶ **Mazzi D.** 2020. La cimice marmorizzata *Halyomorpha halys*: un fastidio per la popolazione e un flagello per la produzione agricola. *TreTerre* 75, 49-51.
- ▶ Boeriis T., **Mazzi D.**, Vogler U. 2020. Push (-and-pull) strategy with sage extracts may reduce crop losses caused by the cabbage root fly, *Delia radicum*. IOBC/WPRS Working Group "Integrated Protection in Field Vegetables" – Proceedings of the Meeting at Stratford-upon-Avon (Great Britain) 13-16 October 2019, *IOBC/WPRS Bulletin* 153, 53-58.
- ▶ Grünig M., Calanca P., **Mazzi D.** 2020. Einfluss des Klimawandels auf die Verbreitung von Schadinsekten. *Schweizer Zeitschrift für Obst- und Weinbau* 156(16), 9-12.
- ▶ Terrettaz M., Sarrasin C., Genini M., Stoebener P., Egger B., Christen D., Fischer S., Kehrl P., **Mazzi D.**, Gilli C. 2020. La cochenille de Comstock, un nouveau ravageur des vergers valaisans. *Revue Suisse de Viticulture, Arboriculture, Horticulture* 52(1), 80-84.
- ▶ **Mazzi D.** 2019. La drosophila del ciliegio, *Drosophila suzukii*: un minuscolo moscerino minaccia la produzione frutticola. *TreTerre* 73, 39-41.
- ▶ Hennig E. I., Kuske S., **Mazzi D.** 2017. Bedeutung von Vegetationsstrukturen für die Ausbreitung der Kirschessigfliege. *Schweizer Zeitschrift für Obst- und Weinbau* 153(15), 10-13.
- ▶ Bravin E., Gremminger F., Eder R., **Mazzi D.**, Kuske S. 2016. Kirschessigfliege: Strategien, Befall und Schäden im Steinobst. *Schweizer Zeitschrift für Obst- und Weinbau* 152(14), 8-11.
- ▶ **Mazzi D.**, Fataar S., Kaiser L., Razavi E., Kuske S. 2016. Fighting the threat from spotted-wing drosophila in Swiss stone fruits: where from and where to from there. *IOBC/WPRS Bulletin* 112, 9-12.
- ▶ Vogler U., Messmer L., **Mazzi D.** 2016. Management of overwintering white flies (*Aleyrodes proletella*, Hemiptera: Aleyrodidae) in kale (*Brassica oleracea* convar. *acephala* var. *sabellica* L.). *IOBC/WPRS Bulletin* 118, 7-14.
- ▶ Baumann A.-M., Breuer M., Doye E., **Mazzi D.** 2015. Kirschessigfliegen-Forschung. *Schweizer Zeitschrift für Obst- und Weinbau* 151(9), 12-14.
- ▶ Kaiser L., Razavi E., **Mazzi D.**, Kuske S. 2015. Astproben 2014/15: Rekordzahlen bei der Blutlaus - zuverlässige Raubmilben. *Schweizer Zeitschrift für Obst- und Weinbau* 151(7), 14-17.
- ▶ Kuske S., Kaiser L., Razavi E., Fataar S., Schwizer T., Mühlentz I., **Mazzi D.** 2014. Netze gegen die Kirschessigfliege. *Schweizer Zeitschrift für Obst- und Weinbau* 150(22), 14-18.
- ▶ Kuske S., Kaiser L., Razavi E., **Mazzi D.** 2014. Astproben 2013/14: Leichter Rückgang bei der Roten Spinne - Stabilität bei den Raubmilben. *Schweizer Zeitschrift für Obst- und Weinbau* 150(6), 8-11.