

List of Publications

- Surname: Pinto Zevallos
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A Peer-reviewed scientific articles

Pinto-Zevallos DM, Sorrentino F, Blande JD, 2025. Two Seed Treatments with Methyl Jasmonate Differentially Alter the Emission of Volatile Organic Compounds in Broccoli Plants. *Journal of Chemical Ecology* 51, 118. <https://doi.org/10.1007/s10886-025-01673-4>

Pinto-Zevallos DM, Skaldina O, Blande JD, 2025. Effects of Atmospheric pollutants on volatile-mediated insect ecosystem services. *Global Change Biology* 31(1): e70034. <https://doi.org/10.1111/gcb.70034>

Pinto-Zevallos DM, Blande JD, 2024. Challenges of climate change and air pollution for volatile-mediated plant-parasitoid signalling. *Current Opinion in Insect Science* 66:101290 <https://doi.org/10.1016/j.cois.2024.101290>.

de Sena Filho JG, Soares de Almeida A, **Pinto-Zevallos DM**, Barreto IC, Cabral de Holanda Cavalcanti S; Nunes R, Teodoro AV, Xavier HS, Barbosa Filho JM, Guan L, Neves ALA, Durringer JM. 2023. From plant scent defense to biopesticide discovery: evaluation of toxicity and acetylcholinesterase docking properties for Lamiaceae monoterpenes. *Crop Protection* 164: 106126. <https://doi.org/10.1016/j.cropro.2022.106126>

Teodoro AV, **Pinto-Zevallos DM**, Menezes MS, Arrigoni-Blank, MF, Oliveira EMC, Sampaio TS, Vasconcelos JF, Blank AF. 2021. Toxicity and repellency of the essential oil from *Lippia gracilis* to the coconut mite *Aceria guerreronis* (Acari: Eriophyidae). *International Journal of Acarology* 47: 414-417 <https://doi.org/10.1080/01647954.2021.1922497>

Brito DRB, **Pinto-Zevallos DM**, de Sena Filho JG, Coelho CR, Nogueira PCL, de Carvalho HWL, Teodoro AV. 2021. Bioactivity of the essential oil from sweet orange leaves against the coconut mite *Aceria guerreronis* (Acari: Eriophyidae) and selectivity to a generalist predator. *Crop Protection* 148: 105737. <https://doi.org/10.1016/j.cropro.2021.105737>

Pinto-Zevallos DM, Martins CB, Andrade SM, Zawadneak MA, Zarbin PHG. 2020. Plant volatiles induced by *Duponchelia fovealis* (Lepidoptera: Crambidae) in two cultivars of strawberry and its attraction to the predator *Podisus nigrispinus* (Hemiptera: Pentatomidae). *Arthropod-Plant Interactions* 14: 685-693. <https://doi.org/10.1007/s11829-020-09790-5>

de Carvalho HWL, Teodoro AV, de Barros, I, de Carvalho, LM, dos Santos Soares Filho W, Girardi, EA, Passos OS, **Pinto-Zevallos DM**. 2020. Rootstock-related improved performance of 'Pera' sweet orange under rainfed conditions of Northeast Brazil. *Scientia Horticulturae*, 263: 109148

Teodoro AV, Costa de Oliveira NNF, Galvão AS, Sena Filho JG, **Pinto-Zevallos DM**, 2020. Interference of plant oils on predation and reproduction of *Neoseiulus baraki* (Acari: Phytoseiidae)

feeding on *Aceria guerreronis* (Acari: Eriophyidae). *Biological Control* 143: 104204
<https://doi.org/10.1016/j.biocontrol.2020.104204>

Santos MC, Teodoro AV, Menezes MS, **Pinto-Zevallos DM**, Arrigoni-Blank MF, Oliveira EMC, Sampaio TS, Farias AP, Coelho CR, Blank AF. 2019. Bioactivity of essential oil from *Lippia gracilis* Schauer against two major coconut pest mites and toxicity to a non-target predator. *Crop Protection* 125:104913 <https://doi.org/10.1016/j.cropro.2019.104913>

Pinto-Zevallos DM, Bezerra RHS, Souza SR, Ambrogi BG. 2018. Species- and density-dependent induction of volatile organic compounds by three mite species in cassava and their role in the attraction of a natural enemy. *Experimental and Applied Acarology* 74:261-274.
<https://doi.org/10.1007/s10493-018-0231-5>

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Nissinen A, **Pinto-Zevallos DM**, Jahiainen L, Vänninen I. 2017. The effect of photoperiod and light quality on *Macrolophus pygmaeus* Rambur (Hemiptera: Miridae) nymphal development, fecundity and longevity. *Biological Control* 108: 30-39. <https://doi.org/10.1016/j.biocontrol.2017.02.001>

Pinto-Zevallos DM, Pareja M, Ambrogi B. 2016. Current knowledge and future research perspectives on cassava (*Manihot esculenta* Crantz) chemical defenses: An agroecological view. *Phytochemistry* 130:10-21. <https://doi.org/10.1016/j.phytochem.2016.05.013>

Pareja M, **Pinto-Zevallos DM**. 2016. Impacts of induction of plant volatiles by individual and multiple stresses across trophic levels. In: Blande JD, Glinwood R (eds.), *Deciphering Chemical Language of Plant Communication*, pp 61-93. ISBN 3319334964

Strapasson P, **Pinto-Zevallos DM**, Zarbin PHG. 2016. Volatile organic compounds induced by herbivory of the soybean looper *Chrysodeixis includens* in transgenic glyphosate-resistant soybean and the behavioral effect on the parasitoid, *Meteorus rubens*. *Journal of Chemical Ecology* 42: 806 - 813. <https://doi.org/10.1007/s10886-016-0740-9>

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Nascimento ES, Ambrogi BG, **Pinto-Zevallos DM**, Souto LS. 2016. Age-dependent pattern of calling behavior in *Atheloca subrufella* (Hulst) (Lepidoptera: Phycitidae). *Journal of Insect Behavior* 29:190-198. <https://doi.org/10.1007/s10905-016-9552-6>

Ambrogi BG, **Pinto-Zevallos DM**, Leite JC, Souto LS, Queiroz AFO, Moreira SM. 2016. Trail-following behaviour and biological aspects of the gregarious caterpillar *Brassolis sophorae* (Linnaeus) (Lepidoptera: Nymphalidae). *Austral Entomology* 55:366-370
<https://doi.org/10.1111/aen.12197>

Strapasson P, **Pinto-Zevallos DM**, Zarbin PHG. 2016. Soybean (*Glycine max*) plants genetically modified to express resistance to glyphosate: can they modify airborne signals in tritrophic interactions? Chemoecology 26: 7-14. <https://doi.org/10.1007/s00049-015-0202-9>

Strapasson P, **Pinto-Zevallos DM**, Paudel S, Rajotte EG, Felton GW, Zarbin PHG. 2014. Enhancing plant resistance at the seed stage: low concentrations of methyl jasmonate reduce the performance of the leaf miner *Tuta absoluta* but do not alter the behavior of its predator *Chrysoperla externa*. Journal of Chemical Ecology 40: 1090-1098. <https://doi.org/10.1007/s10886-014-0503-4>

Pinto-Zevallos DM, Hellen H, Hakola H, van Nouhuys S, Holopainen JK. 2013. Induced defenses of *Veronica spicata*: Variability in herbivore-induced volatile organic compounds. Phytochemistry Letters 6: 653-656. <https://doi.org/10.1016/j.phytol.2013.08.015>

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Vänninen I, **Pinto DM**, Nissinen AI, Johansen NS, Shipp L. 2012. Prospecting the use of artificial lighting for integrated pest management. Acta Horticulturae, 956: 593-608. 10.17660/ActaHortic.2012.956.71

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Vänninen I, **Pinto DM**, Nissinen A, Johansen NS, Shipp L. 2010. In the light of new greenhouse technologies: 1. Plant mediated effects of artificial lighting on arthropods and tritrophic interactions. Annals of Applied Biology 157: 393–414. <https://doi.org/10.1111/j.1744-7348.2010.00438.x> (Review article)

Pinto DM, Blande JD, Souza SR, Nerg A-M, Holopainen JK. 2010. Plant volatile organic compounds (VOCS) in ozone (O₃) polluted atmospheres: the ecological effects. Journal of Chemical Ecology 36: 22-34. <https://doi.org/10.1007/s10886-009-9732-3>

Winkler K, Wäckers F, **Pinto DM**. 2009. Nectar-proving plants enhance the energetic state of herbivores as well as their parasitoids under field conditions. Ecological Entomology 34: 221-227. <https://doi.org/10.1111/j.1365-2311.2008.01059.x>

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Pinto DM, Himanen S, Nissinen A, Nerg A-M, Holopainen JK. 2008. Host location behavior of *Cotesia plutellae* Kurdjumov (Hymenoptera: Braconidae) in ambient and moderately elevated ozone in field conditions. Environmental Pollution 156:227-231. <https://doi.org/10.1016/j.envpol.2007.12.009>

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Pinto DM, Blande J, Nykänen R, Dong, WX, Nerg A-M, Holopainen JK. 2007. Ozone degrades common herbivore-induced plant volatiles: does this affect herbivore prey location by predators and parasitoids? *Journal of Chemical Ecology* 33: 683-694. <https://doi.org/10.1007/s10886-007-9255-8>

Pinto DM, Tiivä P, Miettinen P, Joutsensaari J, Kokkola H, Nerg A-M, Laaksonen A, Holopainen JK. 2007. The effects of increasing atmospheric ozone on biogenic monoterpene profiles and the formation of secondary aerosols. *Atmospheric Environment* 41: 4877-4887. <https://doi.org/10.1016/j.atmosenv.2007.02.006>

B Non-refereed scientific articles

Nissinen A, **Pinto D**, Vänninen I. 2012. Biology of *Macrolophus pygmaeus* in different light conditions. e-Proceedings of the XXIV International Congress of Entomology, Daegu, South-Korea, August 19-24, 2012.

Nissinen A, **Pinto D**, Vänninen I. 2012. Päivän pituuden ja valon laadun vaikutus *Macrolophus*-peitoluteen kehitysnopeuteen ja lisääntymiseen. Maataloustieteen päivät 2012, Viikki-Helsinki. Suomen Maataloustieteellisen Seuran Tiedote 29.

Vänninen I, **Pinto DM**, Nissinen A. 2010. Hyönteisten valobiologian ja visuaalisen ekologian kasvinsuojelulliset sovellukset. In: Hopponen A, ed. Maataloustieteen Päivät 2010, Viikki-Helsinki. Suomen Maataloustieteellisen Seuran Tiedote 26.

Pinto DM, Joutsensaari J, Tiiva P, Miettinen P, Blande J, Dong W-X, Nerg AM, Laaksonen A, Holopainen JK. 2007. Effects of atmospheric ozone on biogenic volatile organic compounds: an atmospheric and ecological perspective. In: Xiang H, Akie MN, Vuorio A-M, Jokinen T, Sillanpää M, eds. Eighth Finnish Conference of Environmental Sciences, Mikkeli, Finland, May 10-11, 2007, p. 131-134. Finnish Society for Environmental Sciences

Joutsensaari J, Loivamäki M, Vuorinen T, Miettinen P, **Pinto DM**, Tiiva P, Nerg A-M, Holopainen JK, Laaksonen A. 2006. Formation of secondary organic aerosols by ozonolysis of plant-released volatiles. In: Vehkamäki H, Bergman T, Julin J, Salonen M, Kulmala M, eds. NOSA 2006 Aerosol symposium, combined with the X Finnish National Aerosol Symposium, Helsinki, 8.-10.11.2006, p. 118-121. Report Series in Aerosol Science 83

Luna J, Cabrera-La Rosa JC, Pinedo E, **Pinto D**, Zeddám JL. 2002. Characterization and utilization of a Nucleopolyhedrovirus pathogenic to *Spodoptera eridania* and *S. ochrea*. *Revista Manejo Integrado de Plagas (CATIE)* 63:39-45 (In Spanish)

D Publications intended for professional communities

Teodoro AV, de Carvalho HWL, de Barros, I, de Carvalho, LM, dos Santos Soares Filho W, Girardi, EA, Passos, OS **Pinto-Zevallos DM**. 2020. Porta-enxertos para diversificação de pomares de laranjeira 'Pera' [*Citrus sinensis* (L.) Osbeck] do polo citrícola dos Tabuleiros Costeiros da Bahia e de Sergipe. Technical Communication 232, Embrapa, Aracaju, Sergipe, Brazil.

<https://www.embrapa.br/busca-de-publicacoes/-/publicacao/1127524/porta-enxertos-para-diversificacao-de-pomares-de-laranjeira-pera-citrus-sinensis-l-osbeck-do-polo-citricola-dos-tabuleiros-costeiros-da-bahia-e-de-sergipe>

E Publications intended for the general public, linked to the applicant's research

Vänninen I, Nissinen A, **Pinto D**. 2014. *Macrolophus*-mysteeriä selvittämässä. Julkaisusarja Puutarha&kauppa 18, 3/2014, pp. 22-23

Vänninen I, Nissinen A, **Pinto D**. 2010. Ansarijauhiaisten hallintaa tutkitaan ympärivuotisessa tuotannossa. Puutarha&kauppa 14 Numero 3/2010, pp. 24-25

G Theses

Pinto DM. 2008. Ozonolysis of Constitutively-emitted and Herbivory-induced Volatile Organic Compounds (VOCs) from Plants: Consequences in Multitrophic Interactions. Kuopio University Publications C. Natural and Environmental Sciences 238. 110 p. ISBN 978-951-27-0976-2 (Doctoral Dissertation)

Pinto DM. 2003. Use of nectar sources by the herbivore *Plutella xylostella* in diversified agroecosystems: attractivity and nutritional benefits. Laboratory of Entomology, Wageningen University (03-21). 36 p. (MSc. Thesis)

Pinto DM. 1999. Effect of the NPK fertilizers and foliar supplementary fertilization in lemon grass (*Cymbopogon citratus* Stapf) culture yield under low flow irrigation systems: exudation tapes. Faculty of Agronomy, UNALM. (In Spanish). 84 p. (BSc. Thesis).