

ANTONINO MALACRINÒ

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EDUCATION

2017. PhD in Agriculture, Forestry and Environmental Sciences. *University of Palermo (Palermo, Italy)*

2013. MSc in Agricultural and Food Sciences and Technologies. *University of Reggio Calabria (Reggio Calabria, Italy)*

2011. BSc in Agricultural Sciences and Technologies. *University of Reggio Calabria (Reggio Calabria, Italy)*

WORK EXPERIENCE

Jan 2019 – now. **Postdoctoral Researcher.** Dept. EEOB, The Ohio State University (Columbus, OH, USA)

Jan 2017 – Dec 2018 (2 years). **Postdoctoral Research Fellow.** IFM Biology, Linköping University (Linköping, Sweden)

Dec 2015 – Aug 2016 (9 months). **Visiting Scientist.** The James Hutton Institute (Dundee, UK)

Apr 2014 – Dec 2016 (2 years 9 months). **Research Fellow.** University of Reggio Calabria (Reggio Calabria, Italy)

Jan 2014 – Mar 2014 (3 months). **Research Assistant.** University of Reggio Calabria (Reggio Calabria, Italy)

COMPETITIVE RESEARCH GRANTS

(≈USD 420,000)

2019. Travel Grant. Ohio State Postdoctoral Association. 750 USD

2018. Centre for Applied Plant Sciences, The Ohio State University. 62,584 USD. *Team member*

2018. Helge Ax:son Johnsons stiftelse. 60,000 SEK. *PI*

2018. Stiftelsen Längmanska kulturfonden. 30,000 SEK. *PI*

2018. Postdoctoral stipend. Sven och Lilly Lawskis fond för naturvetenskaplig forskning. 270,000 SEK. *PI*

2017. Lars Hiertas Minne Stiftelsen. 20,000 SEK. *PI*

2017. The Royal Swedish Academy of Sciences (Kungl. Vetenskapsakademien). 65,000 SEK. *PI*

2017. Knut och Alice Wallenbergs Stiftelse Grant. 15,000 SEK. *PI*

2017. The Nilsson-Ehle Endowments. Royal Physiographic Society of Lund. 18,000 SEK. *PI*

2017. Strategic Research Area Grant. Centre for Systems Neurobiology, Linköping University. 50,000 SEK. *PI*

2017. Postdoctoral stipend. Sven och Lilly Lawskis fond för naturvetenskaplig forskning. 252,000 SEK. *PI*

2016. Postdoctoral stipend. Centre for Systems Neurobiology, Linköping University. 300,000 SEK. *PI*

2016. COST Action FA1405 Short Term Scientific Mission STSM. 2,500 EUR. *PI*

2016. Travel grant as invited speaker at COST Action FA1405 Workshop. 800 EUR

2016. Travel grant to COST FA1405 Training School “Meta-analysis of plant biotic interactions”. 530 EUR

2014. Research grant from Calabria Regional Department of Agriculture (Italy). 250,000 EUR. *Co-PI*

AWARDS

2018. Italian National Scientific Qualification as Associate Professor in Plant Pathology and Entomology.

2015. CFS Travel Award for 10th International Symposium on Phyllosphere Microbiology.

MEMBER OF THE EDITORIAL BOARD

2019. Annals of Applied Biology. *Senior Editor.* <https://onlinelibrary.wiley.com/journal/17447348>

2018. Agronomy. *Editor.* <https://www.mdpi.com/journal/agronomy>

2016. Plant Protection Science. *Editor* <https://www.agriculturejournals.cz/web/pps/editorial-board/>

2016-2019. Open Life Sciences. *Associate Editor.* <https://www.degruyter.com/view/j/biol>

2017-2018. *Special Issue.* Natural Strategies to Improve Quality in Food Protection (Journal of Food Quality, Hindawi)

2017-2019. Meta Gene. *Associate Editor.* <https://www.journals.elsevier.com/meta-gene/>

REVIEWER ACTIVITY

Journal reviewer: Ecology Letters, Microbial Ecology, mSystems, FEMS Microbiology Ecology, Scientific Reports, PeerJ, Frontiers in Physiology, Journal of Pest Science, Molecular Biology Reports, and others. Look here for the full list bit.ly/2FiRGoW.

Grant reviewer: British Ecological Society (Ecologists in Africa, Small Research Grants), European Union H2020 grants

TEACHING

2020. EEOB 8896.12. Microbiome meta-analysis. Lecturer. *The Ohio State University*

2020. Taxonomic and functional diversity of the microbiome. Guest Lecture. *The Ohio State University*

2019. Mycorrhizal associations. Guest Lecture. *The Ohio State University*

2018. Introduction to High Throughput Sequencing technologies. Lecturer. *Linköping University*.

2014-2016. Member of the BSc and MSc teaching and examination committee of: Plant parasitology; Stored product protection; Integrated pest management in forest systems. *University of Reggio Calabria*.

MENTORING

2020. Co-advisor of 1 PhD student and 3 undergraduate students. *The Ohio State University*

2019. Co-advisor of 1 PhD student. *The Ohio State University*

2014-2016. Supervision of 11 undergraduate and 2 graduate students. *University of Reggio Calabria*.

PUBLICATIONS

1. Holt J, Styer A, White J, Armstrong JS, Nibouche S, Costet L, **Malacrino A et al.** (2020) Differences in Microbiota between Two Multilocus Lineages of the Sugarcane Aphid (*Melanaphis sacchari*) in the Continental US. *Annals of the Entomological Society of America*. DOI: 10.1093/aesa/saaa003
2. Rassati D, Marini L, **Malacrino A** (2019) Acquisition of fungi from the environment modifies ambrosia beetle mycobiome during invasion. *PeerJ*. DOI: 10.7717/peerj.8103
3. **Malacrino A**, Kimber C, Brengdahl M, Friberg U (2019). Heightened condition dependence of the sexual transcriptome as a function of genetic quality in *Drosophila melanogaster* head tissue. *Proceedings of the Royal Society B*. DOI: 10.1098/rspb.2019.0819
4. **Malacrino A**, Seng KH, An C, Ong S, O'Rourke ME (2019). Integrated pest management for yard-long bean (*Vigna unguiculata* subsp. *sesquipedalis*) in Cambodia. *Crop Protection*. DOI: 10.1016/j.cropro.2019.05.005
5. **Malacrino A** (2018). Meta-omics tools in the world of insect-microorganism interactions. *Biology*. DOI: 10.3390/biology7040050
6. Brengdahl M, Kimber C, Maguire-Baxter J, **Malacrino A**, Friberg U (2018). Genetic quality affects the rate of male and female reproductive ageing differently in *Drosophila melanogaster*. *The American Naturalist*. DOI: 10.1086/700117
7. **Malacrino A**, Campolo O, Medina RF, Palmeri V (2018). Instar- and host-associated differentiation of bacterial communities in the mediterranean fruit fly *Ceratitis capitata*. *PLoS ONE*. DOI: 10.1371/journal.pone.0194131
8. Strano CP, **Malacrino A***, Campolo O, Palmeri V (2018). Influence of host plant on *Thaumatococcus pinnatifidus* gut bacterial community. *Microbial Ecology*. DOI: 10.1007/s00248-017-1019-6. *co-first author.
9. Abdelfattah A, **Malacrino A**, Wisniewski M, Cacciola SO, Schena L (2018). Metabarcoding: a powerful tool to investigate microbial communities and shape future plant protection strategies. *Biological Control*. DOI: 10.1016/j.biocontrol.2017.07.009
10. **Malacrino A**, Rassati D, Schena L, Rupa M, Battisti A, Palmeri V (2017). Fungal communities associated to bark and ambrosia beetles trapped at international harbours. *Fungal Ecology*. DOI: 10.1016/j.funeco.2017.04.007
11. Laudani F, Gatehouse AMR, Strano CP, Edwards M, Campolo O, **Malacrino A**, Abd El Halim H, Palmeri V (2017). RNAi-mediated gene silencing in the red palm weevil *Rhynchophorus ferrugineus*. *Open Life Sciences*. DOI: 10.1515/biol-2017-0025
12. Campolo O, **Malacrino A**, Laudani F, Algeri GM, Giunti G, Strano GM, Zoccali P, Palmeri V (2017). Field efficacy of two organic acids against *Varroa destructor*. *Entomologia Generalis*. DOI: 10.1127/entomologia/2017/0430
13. Zoccali P, **Malacrino A**, Campolo O, Laudani F, Algeri GM, Giunti G, Strano CP, Benelli G, Palmeri V (2017). A novel

GIS-based approach to assess beekeeping suitability of Mediterranean lands. Saudi Journal of Biological Sciences. DOI: 10.1016/j.sjbs.2017.01.062

14. **Malacrino A**, Schena L, Campolo O, Laudani F, Mosca S, Giunti G, Strano CP, Palmeri V (2017). A metabarcoding survey on the fungal microbiome associated to the olive fruit fly. Microbial Ecology. DOI: 10.1007/s00248-016-0864-z
15. **Malacrino A**, Campolo O, Laudani F, Palmeri V (2016) Fumigant and repellent activity of limonene enantiomers against *Tribolium confusum* du Val. Neotropical Entomology. DOI:10.1007/s13744-016-0402-1
16. Campolo O, Romeo FV, Algeri GM, Laudani F, **Malacrino A**, Timpanaro N, Palmeri V (2016). Larvicidal Effects of Four Citrus Peel Essential Oils Against the Arbovirus Vector *Aedes albopictus* (Diptera: Culicidae). Journal of Economic Entomology. DOI:10.1093/jee/tov270
17. Campolo O, Zappalà L, **Malacrino A**, Laudani F, Palmeri V (2016). Bees visiting flowers of *Thymus longicaulis* (Lamiaceae). Plant biosystems. DOI:10.1080/11263504.2015.1009190
18. **Malacrino A**, Schena L, Campolo O, Laudani F, Palmeri V (2015). Molecular analysis of the fungal microbiome associated with the olive fruit fly *Bactrocera oleae*. Fungal Ecology. DOI:10.1016/j.funeco.2015.08.006
19. Campolo O, Palmeri V, **Malacrino A**, Laudani F, Castracani C, Mori A, Grasso DA (2015). Interaction between ants and the Mediterranean fruit fly: new insights for biological control. Biological Control. DOI:10.1016/j.biocontrol.2015.06.004
20. Campolo O, **Malacrino A**, Grande SB, Chiera E, Palmeri V (2015). Efficacy of Selected Insecticides for the Control of the California Red Scale in Southern Italy. Acta Horticulture. DOI:10.17660/ActaHortic.2015.1065.146
21. Palmeri V, Scirtò G, **Malacrino A**, Laudani F, Campolo O (2015). A scientific note on a new pest for European honeybees: first report of small hive beetle *Aethina tumida* (Coleoptera: Nitidulidae) in Italy. Apidologie. DOI:10.1007/s13592-014-0343-9
22. Campolo O, Romeo FV, **Malacrino A**, Laudani F, Carpinteri G, Fabroni S, Rapisarda P, Palmeri V (2014). Effects of inert dusts applied alone and in combination with sweet orange essential oil against *Rhyzopertha dominica* (Coleoptera: Bostrichidae) and wheat microbial population. Industrial Crops and Products. DOI: 10.1016/j.indcrop.2014.07.028
23. Campolo O, **Malacrino A**, Laudani F, Maione V, Zappalà L, Palmeri V (2014). Population Dynamics and Temperature-Dependent Development of *Chrysomphalus aonidum* (L.) to Aid Sustainable Pest Management Decisions. Neotropical Entomology. DOI:10.1007/s13744-014-0226-9
24. Campolo O, Chiera E, **Malacrino A**, Laudani F, Fontana A, Albanese GR, Palmeri V (2014). Acquisition and transmission of selected CTV isolates by *Aphis gossypii*. Journal of Asia Pacific Entomology. DOI:10.1016/j.aspen.2014.04.008
25. Palmeri V, Cascone P, Campolo O, Grande SB, Laudani F, **Malacrino A**, Guerrieri E (2014). Hymenoptera wasps associated with the Asian gall wasp of chestnut (*Dryocosmus kuriphilus*) in Calabria, Italy. Phytoparasitica. DOI:10.1007/s12600-014-0411-8
26. Campolo O, **Malacrino A**, Laudani F, Chiera E, Serra D, Russo MT, Palmeri V (2014). Fumigant bioactivity of five *Citrus* essential oils against *Tribolium confusum*. Phytoparasitica. DOI:10.1007/s12600-013-0355-4
27. Campolo O, Verdone M, Laudani F, **Malacrino A**, Chiera E, Palmeri V (2013). Response of four stored products insects to a structural heat treatment in a flour mill. Journal of Stored Products Research. DOI: 10.1016/j.jspr.2013.05.001
28. Campolo O, **Malacrino A**, Maione V, Laudani F, Chiera E, Palmeri V (2013). Population dynamics and spread of *Unaspis yanonensis* in Calabria. Phytoparasitica. DOI: 10.1007/s12600-012-0274-9

Book chapters

29. **Malacrino A** (2020). Transcriptomics in Pest Management Research. In: *Transcriptomics in Entomological Research* (Shelomi M, Ed.). CAB International. ISBN 9781789243147. DOI: 10.1079/9781789243130.0045
30. Bennett AE, Orrell P, **Malacrino A**, Pozo MJ (2018). Fungal mediated above-belowground interactions: The community approach, stability, evolution, mechanisms, and applications. In: *Aboveground-Belowground Community Ecology* (Ohgushi T, Wurst S and Johnson SN Eds.). Ecological Studies series (Springer International Publishing). DOI:10.1007/978-3-319-91614-9_5

Editorial

31. Romeo FV, Alves Macedo J, **Malacrino A** (2018) Editorial: Natural Strategies to Improve Quality in Food Protection.

SEMINARS AND CONFERENCES

Invited seminars

- **Malacrino A.** The Ohio State University, Columbus (OH, USA), July 26th 2019
- **Malacrino A.** The Ohio State University, Columbus (OH, USA), April 4th 2019
- **Malacrino A.** University of Padova (Italy), November 29th 2018
- **Malacrino A.** The Ohio State University, Columbus (OH, USA), November 9th 2018
- **Malacrino A.** USDA ARS, Fort Collins (CO, USA), November 9th 2017
- **Malacrino A.** Linköping University (Sweden), October 11th 2017
- **Malacrino A.** Linköping University (Sweden), March 22th 2017
- **Malacrino A.** Linköping University (Sweden), March 9th 2017

Invited talks at conferences

- **2019.** ESA North Central Branch Annual Meeting. 17-20 Mar 2019, Cincinnati (OH), USA
- **2016.** Workshop COST Action FA1405, 14-16 Sep 2016, Leipzig (Germany)

Talks at conferences

- **2019.** Entomology 2019, 17-20 Nov 2019, St. Louis (MO), USA
- **2018.** Entomology 2018, 11-14 Nov 2018, Vancouver (Canada)
- **2017.** Entomology 2017, 5-8 Nov 2017, Denver (CO), USA
- **2016.** BES Annual Meeting, 11-14 Dec 2016, Liverpool (UK)
- **2016.** XXV CNIE, 20-24 Jun 2016, Padova (Italy)
- **2016.** The James Hutton Institute Annual Postgraduate Student Event, 17-18 Mar 2016, Birnam (UK)
- **2015.** 10th Intl. Symp. on Phyllosphere Microbiology, 19-23 Jul 2015, Ascona (Switzerland)
- **2014.** ANIE Meeting, 13-14 Nov 2014, Firenze (Italy)
- **2014.** National Chestnut Conference, 22-25 September 2014, Viterbo (Italy)
- **2014.** 5th Annual Meeting of European PhD Network in Insect Science, 7-8 June 2014, Orosei (Italy)

Organized events

- **2020.** Co-organizer of the Member Symposium “Microbial Interactions and Their Influence on Organisms and Ecosystems” for Entomology 2020 (November 15-18, 2020 - Orlando, Florida)