



# ANTONINO MALACRINÒ

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**Sex** Male | **Date of birth** 13 December 1989 | **Nationality** Italian



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[researchgate.net/profile/Antonino\\_Malacrino](https://researchgate.net/profile/Antonino_Malacrino)



[publons.com/author/1283862/antonino-malacrino](https://publons.com/author/1283862/antonino-malacrino)



[@antonino\\_mal](https://twitter.com/antonino_mal)

## EDUCATION

**2017.** PhD (Doctor Europaeus) 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.** Dept. AGRARIA, University of Reggio Calabria (Reggio Calabria, Italy)

*Jan 2014 – Mar 2014 (3 months).* **Research Assistant.** Dept. AGRARIA, 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. *Team member.* 62,584 USD.

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

**2018.** Stiftelsen Längmanska kulturfonden. *Principal Investigator.* 30,000 SEK

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

**2017.** Lars Hiertas Minne Stiftelsen. *Principal Investigator.* 20,000 SEK

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

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

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

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

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

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

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

**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). *Co-Principal Investigator.* 250,000 EUR

## AWARDS

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

**2015.** CFS Travel Award for 10<sup>th</sup> International Symposium on Phyllosphere Microbiology.

## MEMBER OF THE EDITORIAL BOARD

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

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

**2016.** 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 – Publons: [bit.ly/2FiRGoW](https://bit.ly/2FiRGoW)

**Journal:** Ecology Letters, Microbial Ecology, mSystems, FEMS Microbiology Ecology, Scientific Reports, PeerJ, Frontiers in Physiology, Journal of Pest Science, Pest Management Science, Journal of Stored Products Research, Phytoparasitica, Plant Protection Science, Industrial Crops and Products, Agronomy (MDPI), Materials (MDPI), Insects (MDPI), International Journal of Molecular Sciences (MDPI), Genes (MDPI), Journal of Fungi (MDPI), Horticulturae (MDPI), Sustainability (MDPI), Water (MDPI),

## TEACHING AND MENTORING

**2018.** *Linköping University*. “Introduction to High Throughput Sequencing technologies”. Course for PhD students (6 ECTS).

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

**2014-2016.** Supervision of B.Sc. (11), M.Sc. (2) and Ph.D. (1) students during laboratory activities and thesis preparation.

## INVITED SEMINARS

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

## PUBLICATIONS

### Peer-Reviewed

1. **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
2. **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
3. **Malacrino A** (2018). Meta-omics tools in the world of insect-microorganism interactions. *Biology*. DOI: 10.3390/biology7040050
4. 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
5. **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
6. Strano CP, **Malacrino A\***, Campolo O, Palmeri V (2018). Influence of host plant on *Thaumetopoea pityocampa* gut bacterial community. *Microbial Ecology* DOI: 10.1007/s00248-017-1019-6. \*co-first author.
7. 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*, 10.1016/j.biocontrol.2017.07.009
8. **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
9. 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
10. 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
11. 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
12. **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
13. **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
14. 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
15. 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
16. **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

17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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
24. 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
25. 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
26. 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**

27. **Malacrino A** (in press). Transcriptomics in Pest Management Research. In: *Transcriptomics in Entomological Research* (Shelomi M, Ed.). CAB International. ISBN 9781789243147.
28. 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**

29. Romeo FV, Alves Macedo J, **Malacrino A** (2018) Editorial: Natural Strategies to Improve Quality in Food Protection. Journal of Food Quality DOI: 10.1155/2018/7480910

#### **Invited speaker**

- **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**

- **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**. 10<sup>th</sup> Intl. Symp. on Phyllosphere Microbiology, 19-23 Jul 2015, Ascona (Switzerland)
- **2014**. 2014 ANIE Meeting, 13-14 Nov 2014, Firenze (Italy)
- **2014**. National Chestnut Conference, 22-25 September 2014, Viterbo (Italy)
- **2014**. 5<sup>th</sup> Annual Meeting of European PhD Network in Insect Science, 7-8 June 2014, Orosei (Italy)

#### **LANGUAGE SKILLS**

**Italian** (native speaker)

**English** (level C1 CEFR – Cambridge ESOL Certificate in Advanced English, 2014)