Marco Gebiola

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Educazione

- **Dottorato in Agrobiologia e Agrochimica**, Università degli Studi di Napoli Federico II, 1 novembre 2005 – 5 febbraio 2009.
- **Laurea in Scienze e Tecnologie Agrarie.** Università degli Studi di Napoli Federico II, settembre 1999 – 22 febbraio 2005.

Posizioni lavorative

- **Professore associato**, Dipartimento di Agraria, Università degli Studi di Napoli Federico II, Portici (NA), 11 dicembre 2023 – presente.
- **Assistant Project Scientist with PI status**: Department of Entomology, University of California, Riverside, 1 maggio 2019 – 30 novembre 2023.
- **Assistant Project Scientist**: Department of Entomology, University of California, Riverside, 1 maggio 2019 – 30 novembre 2023.
- **Assistant Specialist:** Department of Entomology, University of California, Riverside, 12 febbraio 2017 – 30 aprile 2019.
- **Marie Curie International Outgoing Postdoctoral Fellow:**
  CNR – Istituto per la Protezione Sostenibile delle Piante (IPSP), Settembre 2015 – 2016.
  Department of Entomology, University of Arizona, Tucson, AZ, USA, Settembre 2013 – 2015.
- **Postdoc:** CNR – IPSP, aprile 2011 – 2013.
- **Assegnista di ricerca:** Dipartimento di Entomologia e Zoologia Agraria, Università degli Studi di Napoli Federico II, 1 aprile 2009 – 31 marzo 2011.

Pubblicazioni

- **Gebiola M**, Mauck KE, Hunter MS. 2024. Chapter 63. The smallest in the small: Symbionts in Chalcidoidea. In: *Chalcidoidea of the World* (Eds. Heraty, JM, Woolley JB). CABI, Boston, USA, *in stampa*.
- Tran M, Kenney JR, Di Costanzo L, **Gebiola M**, Mauck KE. 2024. Unbinding the bindweed psyllid (*Bactericera maculipennis* [Hemiptera: Triozidae]) from its *Convolvulus* host exposes it to a novel bacterial symbiont. *Environmental Entomology*, *in stampa*.
- **Gebiola M**, Mauck KE. 2024. Symbiont infection and psyllid haplotype influence phenotypic plasticity during host switching events. *Ecological Entomology*, 49, 719–733.
- Kenney JR, Shates T, **Gebiola M**, Mauck KE. 2024. Hiding in plain sight: a widespread native perennial harbors diverse haplotypes of "Candidatus Liberibacter solanacearum" and its potato psyllid vector. *Phytopathology*, 114, 1554–1565.
- Shates TM, **Gebiola M**, Sun P, Aung O, Helo A, Kenney JR, Malmstrom CM, Mauck KE. 2024. Introduced, crop-associated viruses negatively affect native perennial hosts and are prevalent in preserved plant communities. *Phytobiomes*, 8, 201–215.
- Mauck KE, **Gebiola M**, Percy D. 2024. The hidden secrets of Psylloidea: biology, behavior, symbionts, and ecology. *Annual Review of Entomology,* 69, 277–302.
- Cruaud A, Rasplus JY, Zhang J, Burks R, Delvare G, Fusu L, Gumovsky A, Huber JT, Janšta P, Mitroiu MD, Noyes JS, van Noort S, Baker A, Böhmová J, Baur H, Blaimer BB, Brady SG, Bubeníková K, Chartois M, Copeland RS, Dale-Skey Papilloud N, Dal Molin A, Dominguez C, **Gebiola M,** Guerrieri E, Kresslein RL, Krogmann L, Moriarty Lemmon E, Murray EA, Nidelet S, Nieves-Aldrey JL, Perry RK, Peters RS, Polaszek A, Sauné A, Torréns J, Triapitsyn S, Tselikh EV, Yoder M, Lemmon AR, Woolley JB, Heraty JM. 2024.

The Chalcidoidea bush of life: evolutionary history of a massive radiation of minute wasps. *Cladistics*, 40, 34–63.

- **Gebiola M**, Rodriguez MV, Garcia A, Garnica A, Tomberlin JK, Hopkins FM, Mauck KE. 2023. Bokashi fermentation of brewery's spent grains positively affects larval performance of the black soldier fly *Hermetia illucens* while reducing gaseous nitrogen losses. *Waste Management*, 171, 411-420.
- **Gebiola M**, Garnica A, Pagliaccia D, Tomberlin JK, Mauck KE. 2023. Impact of bokashi fermentation on life-history traits of black soldier fly *Hermetia illucens* (Diptera: Stratiomyidae) larvae at an industrial scale. *Journal of Insects as Food and Feed*, 9, 1159-1164.
- Antolínez CA, Youngblood R, Kenney J, **Gebiola M**, Mauck KE, Rivera M. 2023. Flight performance of the potato psyllid (*Bactericera cockerelli*) is negatively affected by "*Candidatus* Liberibacter solanacearum" infection. *Journal of Insect Behavior*, 36, 59-67.
- Urrutia Avila, KU, Campbell M, Mauck KE, **Gebiola M**, Karydis K. 2022. Development and testing of a smart bin toward automated rearing of black soldier fly larvae. *IEEE 18th International Conference on Automation Science and Engineering (CASE),* 1238-1243, doi:10.1109/CASE49997.2022.9926430.
- **Gebiola M**, Le B, Mauck KE. 2022. A reproducible and sensitive method for generating high-quality transcriptomes from single whitefly salivary glands and other low-input tissues. *Insect Science*, 29, 1318-1328.
- Gomez-Marco F, **Gebiola M**, Simmons G, Stouthamer R. 2022. Native, naturalized and commercial predators evaluated for use against *Diaphorina citri* (Hemiptera: Liviidae). *Crop Protection*, 155, 105907.
- Wacławik B, Nugnes F, Bernardo U, **Gebiola M**, Przybycień M, Lachowska-Cierlik D. 2021. An integrative revision of the subgenus *Liophloeodes* (Coleoptera: Curculionidae: Entiminae: Polydrusini): taxonomic, systematic, biogeographic and evolutionary insights. *Arthropod Systematics & Phylogeny*, 79, 419-441.
- Scarparo G, Rugman-Jones P, **Gebiola M**, Giulio AD, McFrederick QS. 2021. First screening of bacterial communities of *Microdon myrmicae* and its ant host: do microbes facilitate the invasion of ant colonies by social parasites? *Basic and applied ecology*, 50, 43–56.
- Scarparo G, Rugman-Jones P, **Gebiola M**, Di Giulio A, Purcell J. 2021. Social parasite distancing: RADseq reveals high inbreeding in the social parasite *Microdon myrmicae* but low philopatry for host ant nest. *Ecological entomology*, 46, 89-99.
- Sasso R, Gualtieri L, Russo E, Nugnes F, **Gebiola M**, Bernardo U. 2020. The establishment of a rearing technique for the fruit fly parasitoid *Baryscapus silvestrii* increases knowledge of biological, ecological and behavioural traits. *Biocontrol* 65, 47–57.
- **Gebiola M**, Streicher JW, Rugman-Jones PF, Morse J, Stouthamer R. 2019. Genome-wide analyses of single nucleotide polymorphisms reveal the consequences of traditional mass-rearing on genetic variation in *Aphytis melinus* (Hymenoptera: Aphelinidae): The danger of putting all eggs in one basket. *Pest Management Science*, 75: 3102–3112.
- **Gebiola M**, Stouthamer R. 2019. Laboratory hybridization between the green lacewings *Chrysoperla comanche* and *C. rufilabris* (Neuroptera: Chrysopidae), predators of the Asian citrus psyllid, *Diaphorina citri* (Hemiptera: Liviidae). *Journal of Economic Entomology*, 112, 1575–1580.
- Gomez-Marco F, **Gebiola M**, Baker B, Stouthamer R, Simmons GS. 2019. Impact of the temperature on the phenology of the Asian citrus psyllid, *Diaphorina citri* (Hemiptera: Liviidae) and on the establishment of *Tamarixia radiata* (Hymenoptera: Eulophidae) in urban areas in the lower Colorado desert of Arizona. *Environmental Entomology*, 48, 514–523.
- **Gebiola M**, Gomez-Marco F, Simmons GS, Stouthamer R. 2018. Effect of host feeding on life history traits of *Tamarixia radiata*, parasitoid of the Asian citrus psyllid, *Diaphorina citri*. *BioControl*, 63: 763–771.

- **Gebiola M**, Kelly SE, Velten L, Zug R, Hammerstein P, Giorgini M, Hunter MS. 2017. Reproductive interference and fecundity affect competitive interactions of sibling species with low mating barriers: Experimental and theoretical evidence. *Heredity*, 119: 438-446.
- **Gebiola M**, Giorgini M, Kelly SE, Doremus MR, Ferree PM, Hunter MS. 2017. Cytological analysis of cytoplasmic incompatibility induced by *Cardinium* suggests convergent evolution with its distant cousin *Wolbachia*. *Proceedings of the Royal Society of London B: Biological Sciences*, 284: 20171433.
- Gualtieri L, Nugnes F, Nappo AG, **Gebiola M**, Bernardo U. 2017. Life inside a gall: closeness does not favour horizontal transmission of *Rickettsia* between a gall wasp and its parasitoid. *FEMS Microbial Ecology*, 93: 1-11.
- **Gebiola M**, Monti MM, Johnson RC, Woolley JB, Hunter MS, Giorgini M, Pedata PA. 2017. A revision of the *Encarsia pergandiella* species complex (Hymenoptera: Aphelinidae) shows cryptic diversity in parasitoids of whitefly pests. *Systematic Entomology*, 42: 31-59.
- **Gebiola M**, Kelly SE, Hammerstein P, Giorgini M, Hunter MS. 2016. "Darwin's corollary" and cytoplasmic incompatibility induced by *Cardinium* may contribute to speciation in *Encarsia* wasps (Hymenoptera: Aphelinidae). *Evolution*, 70: 2447–2458.
- Monti MM, Nugnes F, Gualtieri L, **Gebiola M**, Bernardo U. 2016. No evidence of parthenogenesis-inducing bacteria involved in *Thripoctenus javae* thelytoky: an unusual finding in Chalcidoidea. *Entomologia Experimentalis Et Applicata*, 160: 292–301.
- Nugnes, F, **Gebiola M**, Gualtieri L, Russo E, Sasso R, Bernardo U. 2016. When exotic biocontrol agents travel without passport: first record of *Quadrastichus mendeli*, parasitoid of the blue-gum chalcid *Leptocybe invasa* in Italy. *Bulletin of Insectology*, 69: 85–91.
- **Gebiola M**, White, JA, Cass, BN, Kozuch A, Harris LR, Kelly SE, Karimi J, Giorgini M, Perlman S, Hunter MS. 2016. Cryptic diversity, reproductive isolation and cytoplasmic incompatibility in a classic biological control success story. *Biological Journal of the Linnean Society,* 117: 217–230.
- **Gebiola M**, Bernardo U, Garonna AP, Belokobylskij SA. 2015. Molecular phylogenetic analyses and morphological variation point to taxonomic problems among four genera of parasitoid doryctine wasps (Hymenoptera: Braconidae). *Invertebrate Systematics*, 29: 591–609.
- Nugnes F, **Gebiola M**, Monti MM, Gualtieri L, Giorgini M, Wang J, Bernardo U. 2015. Genetic diversity of the invasive gall wasp *Leptocybe invasa* (Hymenoptera: Eulophidae) and of its *Rickettsia* Endosymbiont, and associated sex-ratio differences. PLoS ONE, 10(5), e0124660.
- **Gebiola M,** Bernardo U, Ribes A, Gibson GAP. 2015. An integrative study of *Necremnus* Thomson (Hymenoptera: Eulophidae) associated with invasive pests in Europe and North America: Taxonomic and ecological implications. *Zoological Journal of the Linnean Society*, 173: 352–423.
- Bernardo U, van Nieukerken EJ, Sasso R, **Gebiola M,** Gualtieri L, Viggiani G. 2015. Characterization, distribution, biology and impact on Italian walnut orchards of the invasive North-American leafminer *Coptodisca lucifluella* (Lepidoptera: Heliozelidae). *Bulletin of Entomological Research*, 105(2): 210–224.
- Delvare G, **Gebiola M,** Zeiri A, Garonna AP. 2014. Phylogeny and revision of the European species of the *Eurytoma morio* species group (Hymenoptera: Eurytomidae), parasitoids of bark and wood boring beetles. *Zoological Journal of the Linnean Society*, 171(2): 370–421.
- Chiel E, Kelly SE, Harris AM, **Gebiola M,** Li X, Zchori Fein E, Hunter MS. 2014. Characteristics, phenotype, and transmission of *Wolbachia* in the sweet potato whitefly, *Bemisia tabaci* (Hemiptera: Aleyrodidae), and its parasitoid *Eretmocerus* sp. nr. *emiratus* (Hymenoptera: Aphelinidae). *Environmental Entomology*, 43(2): 353–362.
- **Gebiola M**, Lopez-Vaamonde C, Nappo AG, Bernardo U. 2014. Did the parasitoid *Pnigalio mediterraneus* (Hymenoptera: Eulophidae) track the invasion of the horse chestnut leafminer? *Biological Invasions,* 16(4): 843–857.

- Deng J, Yu F, Li H-B, **Gebiola M**, Desdevises Y, Wu S-A, Zhang Y-Z. 2013. Cophylogenetic relationships between *Anicetus* parasitoids (Hymenoptera: Encyrtidae) and their scale insect hosts (Hemiptera: Coccoide). *BMC Evolutionary Biology*, 13:275.
- Bernardo U, **Gebiola M**, Xiao Z, Zhu CD, Pujade-Villar J, Viggiani G. 2013. Description of *Synergus castaneus* n. sp. (Hymenoptera: Cynipidae: Synergini) associated with an unknown gall on *Castanea* spp. (Fagaceae) in China. *Annals of the Entomological Society of America*, 106(4), 437–446.
- Panzavolta T, Bernardo U, Bracalini U, Cascone P, Croci F, **Gebiola M**, Iodice L, Tiberi R, Guerrieri E. 2013. Native parasitoids associated with *Dryocosmus kuriphilus* in Tuscany, Italy. *Bulletin of Insectology*, 66(2): 195–201.
- Bernardo U, Sasso R, **Gebiola M**, Viggiani G. 2012. First record of a walnut shield bearer *Coptodisca* (Lepidoptera: Heliozelidae) in Europe. *Journal of Applied Entomology*, 136: 638–640.
- **Gebiola M**, Gómez-Zurita J, Monti MM, Navone P, Bernardo U. 2012. Integration of molecular, ecological, morphological, and endosymbiont data for species delimitation in the *Pnigalio soemius* complex (Hymenoptera: Eulophidae). *Molecular Ecology*, 21: 1190–1208.
- **Gebiola M,** Giorgini G, Navone P, Bernardo U. 2012. A karyological study of the genus *Pnigalio* (Hymenoptera: Eulophidae): Assessing the taxonomic utility of chromosomes at the species level. *Bulletin of Entomological Research*, 102: 43–50.
- Burks RA, Heraty JM, **Gebiola M**, Hansson C. 2011. Combined molecular and morphological phylogeny of Eulophidae (Hymenoptera: Chalcidoidea), with focus on the subfamily Entedoninae. *Cladistics*, 27: 581–605.
- **Gebiola M**, Bernardo U, Burks RA. 2010. A reevaluation of the generic limits of *Pnigalio* Schrank (Hymenoptera: Eulophidae) based on molecular and morphological evidence. *Zootaxa*, 2484: 35–44.
- Giorgini M, Bernardo U, Monti MM, Nappo AG, **Gebiola M.** 2010. *Rickettsia* symbionts cause parthenogenetic reproduction in the parasitoid wasp *Pnigalio soemius* (Hymenoptera: Eulophidae). *Applied and Environmental Microbiology*, 76: 2589-2599.
- **Gebiola M**, Bernardo U, Monti MM, Navone P, Viggiani G. 2009. *Pnigalio agraules* (Walker) and *Pnigalio mediterraneus* Ferrière & Delucchi (Hymenoptera: Eulophidae): two closely related valid species. *Journal of Natural History*, 43: 2465–2480.
- Bernardo U, Monti MM, Nappo AG, **Gebiola M,** Russo A, Pedata PA, Viggiani G. 2008. Species status of two populations of *Pnigalio soemius* (Hymenoptera: Eulophidae) reared from two different hosts: An integrative approach. *Biological Control*, 46: 293–303.

Altre pubblicazioni

- Guerrieri E, Bernardo U, Cascone P, Iodice L, **Gebiola M**, Griffo R, Pesapane G. 2012. Gestire il cinipide del castagno mediante i nemici naturali. L'Informatore Agrario, 6, 75–77.
- Bernardo U, Sasso R, Gebiola M, Viggiani, G. 2011. Minatrice fogliare segnalata in Italia su noce. L'Informatore Agrario, 64–66.
- Guerrieri E, Bernardo U, Iodice L, **Gebiola M**. 2010. Identificazione morfo-bio-molecolare ed interazioni trofiche degli antagonisti autoctoni di *Dryocosmus kuriphilus* Yasumatsu in Campania: metodologia e risultati preliminari. Atti Accademia Nazionale Italiana Di Entomologia, Anno LVIII, 115–120.
- **Gebiola M**, Bernardo U. 2008. Karyotype of *Baryscapus silvestrii* Viggiani et Bernardo (Hymenoptera: Eulophidae). Bollettino Del Laboratorio Di Entomologia Agraria Filippo Silvestri, Portici, 62, 39–43.

Progetti di ricerca finanziati

- **2023 United States Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA) Agricultural Food and Research Initiative (AFRI) Foundational and Applied Research Program USDA-NIFA-AFRI-009003**. Contratto n: 2023-67022-39645. Finanziamento: $ 299,343.00. Progetto di ricerca: "Automating black soldier fly rearing for on-farm waste recycling and income generation". Ruolo: Responsabile di Progetto. Maggio 2023 – aprile 2025.
- **2023 California Leafy Greens Research Program**. Finanziamento: $ 34,606. Progetto di ricerca: "Tackling the triple threat of thrips, pythium, and impatiens necrotic spot virus using plant elicitors and soil amendments with biological control activity". Ruolo: Co-Responsabile di progetto. Aprile 2023 – marzo 2024.
- **2023 University of California Riverside (UCR) Research and Economic Development (RED) Opportunity to Advance Sustainability Innovation and Social Inclusion - Internal Funding Awards (OASIS-IFA)**. Finanziamento: $ 25,000. Progetto di ricerca: "Quantifying the impacts of feedstock fermentation on black soldier fly frass fertilizer qualities and greenhouse gas emissions". Ruolo: Co-Responsabile di progetto. Gennaio – dicembre 2023.
- **2023 California Melon Research Board**. Finanziamento: $ 13,566. Progetto di ricerca: "Reducing virus impacts on melons by combining vector behavior disruption with plant immunity manipulation". Ruolo: Co-Responsabile di progetto. Marzo – dicembre 2023.
- **2023 University of California Western Region IR-4 Program, subaward from California Department of Food and Agriculture (CDFA) grant**. Contratto n: 21-0663-000-SA- IS00432. Finanziamento: $13,000. Progetto di ricerca: "Control of viral diseases vectored by whiteflies and aphids to muskmelon". Ruolo: Responsabile di Progetto. Marzo – agosto 2023.
- **2022 UCR RED Extramural Funding Opportunity Preparation Award (EFOPA)**. Finanziamento: $ 24,905. Progetto di ricerca: "Creating a circular economy: Turning Ag and food waste into tools for sustainable crop production". Ruolo: Responsabile di Progetto. Gennaio - dicembre 2022
- **Delfino Agricultural Technology Research Initiative**. **CNAS Agriculture Innovation Seed Funding.** Finanziamento: $ 24,000. Progetto di ricerca: "BSFROBOREAR: Autonomous Rearing of Black Soldier Fly." Ruolo: Responsabile di progetto. 1 luglio 2021 - 30 giugno 2022.
- **University of California, Office of the President, Global Food Initiative**. Finanziamento: $20,000. Progetto di ricerca: "Toward a circular economy: From Ag and food waste to sustainable food production". Ruolo: Responsabile di Progetto.
- **Marie Curie International Outgoing Fellowship**: Contratto n. PIOF-GA-2012-327425. Finanziamento: € 261,627.60. Acronimo del progetto: SYMBIOCONTROL. Progetto di ricerca: The role of the bacterial symbiont *Cardinium* in shaping the ecology and evolution of an insect parasitoid wasp: fundamental studies and implications for biological control of plant pests. Settembre 2013 –2016.
- **SYNTHESYS grant**: Hungarian Natural History Museum, Budapest, Ungheria. Ospite: Dr. Sándor Csõsz. Contratto n. HU-TAF-409.
- **Individual Research Exchange Grant**: CNR – Chinese Academy of Sciences Bilateral Agreement. Ospite: Dr. Chao-Dong Zhu, Institute of Zoology, CAS, Pechino, Cina.

Attività editoriale

- Editorial Board Member per la rivista BMC Ecology & Evolution – Febbraio 2022 - presente.
- Editorial Board Member per la rivista Insects – Ottobre 2021 - Agosto 2023.
- Subject Editor per la rivista Comparative Cytogenetics – Gennaio 2020 - presente.
- Guest Editor per un numero speciale sulla rivista Insects intitolato "The Borderless "Bug" Characterization of Invasive Insect Species: The First Step for Their Control" – Settembre 2019 - Marzo 2021.

Attività didattica

- Guest lecturer: **ENTM 127 – Insect Ecology** (Winter 2023), "Decomposition ecology" module. UC Riverside, CA, USA.
- Lecturer: **ENTM129L Laboratory of Biological Control** (Fall 2018). UC Riverside, CA, USA.

Attività di revisore scientifico

Revisore per le seguenti riviste:
Biocontrol (10), Bulletin of Entomological Research (9), Insects (7), Journal of Pest Science (4), Comparative Cytogenetics (4), Microbial Ecology (4), Zoological Journal of the Linnean Society (4), Molecular Ecology (3), Insect Science (3), Pest Management Science (2), PLOS One (3), Evolution (2), BMC Genomics (2), Bulletin of Insectology (2), Agricultural and Forest Entomology (1), Agriculture (1), Annals of the Entomological Society of America (1), Biological Control (1), Biological Journal of the Linnean Society (1), Biology Letters (1), Entomologia Generalis (1), Environmental Entomology (1), European Journal of Entomology (1), European Journal of Zoology (1), Forests (1), Frontiers in Microbiology (1), Frontiers in Physiology (1), Frontiers in Plant Science (1), Genes (1), International Journal of Molecular Science (1), Journal of Asian Pacific Entomology (1), Journal of Economic Entomology (1), Journal of Insect Science (1), Journal of Natural History (1), Microorganisms (1), Molecular Ecology Resources (1), Phytoparasitica (1), Scientific Reports (1), Symbiosis (1), Systematic Entomology (1), The Canadian Entomologist (1), Zookeys (1).

Presentazioni orali e seminari su invito

- Chitin and poop: the role of black soldier fly frass in regenerative agriculture.
  Universidade Federal Rural de Pernambuco, Brazil, 5 May 2023.
- A transcriptomic look at the multifaceted interface between MEAM1 whiteflies, cucurbit yellow stunting disorder virus and melon plants.
  Simposio: Friends and foes: New advances on plant-insect-microbe interactions, Joint Entomological Society of America (ESA), Entomological Society of Canada (ESC), Entomological Society of British Columbia (ESBC) meeting, Vancouver, Canada, 13-16 novembre 2022.
- Biowaste and the Black Soldier Fly: A circular economy journey.
  Entomology seminar series, Department of Entomology, UC Riverside, CA, USA, 7 marzo 2022.
- Of *Encarsia* and *Cardinium*: Tales from the SYMBIOCONTROL project.
  UCR Entomology seminar series, Riverside, CA, USA, 2 ottobre 2017.
- From embryos to hybrids: How the symbiont *Cardinium* shapes the ecology and evolution of *Encarsia* parasitoids.
  UC Davis Entomology seminar series, Davis, CA, USA, 11 gennaio 2017.
- The role of the symbiont *Cardinium* in shaping the ecology and evolution of *Encarsia*.
  Symposium: Evolution and biology of Chalcidoidea, XXV International Congress of Entomology, Orlando, FL, USA, 26 settembre 2016.
- From embryos to hybrids: The role of the symbiont *Cardinium* in shaping the ecology and evolution of *Encarsia* wasps, parasitoids of whiteflies.
  PhD program's seminar series, Department of Zoology, Università di Roma Tre, 16 Giugno 2016.
- From embryos to hybrids: The role of the symbiont *Cardinium* in shaping the ecology and evolution of *Encarsia* parasitoid wasps.
  Entomology seminar series, Department of Entomology, University of Arizona, Tucson, AZ, USA, 28 agosto 2015.

- The genus *Pnigalio* Schrank (Hymenoptera: Eulophidae): a case study to test the power of Integrative Taxonomy.
  Central South University of Forestry and Technology, Changsha, Hunan, China, 23 marzo 2012.
- The importance of an integrative approach to the systematics of chalcidoid wasps: A case study, the genus *Pnigalio* Schrank (Hymenoptera: Eulophidae).
  Institute of Zoology, Chinese Academy of Sciences, Pechino, Cina, 24 aprile 2010.
- The importance of an integrative approach to the systematics of chalcidoid wasps: A case study, the genus *Pnigalio* Schrank (Hymenoptera: Eulophidae).
  Department of Zoology, Hungarian Natural History Museum, Budapest, Ungheria, 9 marzo 2010.

Presentazioni orali

- Effect of Bokashi fermentation on *Hermetia illucens* (Diptera: Stratiomyidae) development and microbiome.
  4th International Conference Insects to Feed the World, Quebec City, Canada, 12-16 giugno 2022.
- A reproducible and sensitive method for generating high-quality transcriptomes from single salivary glands of whiteflies and psyllids.
  Entomological Society of America Pacific Branch 106th annual meeting, Santa Rosa, CA, 10-13 aprile 2022.
- Laboratory hybridization between the green lacewings *Chrysoperla comanche* and *C. rufilabris*, predators of the Asian citrus psyllid: Implications of biological control.
  Entomological Society of America 66st Annual Meeting, Vancouver, Canada, 11 novembre 2018.
- Biological control of the Asian citrus psyllid, *Diaphorina citri* (Hemiptera: Liviidae) in California.
  European Congress of Entomology, Napoli, 2 luglio 2018.
- RADseq reveals low genetic variation among commercially reared *Aphytis melinus*: A cautionary tale for insectaries.
  W4185 Meeting, Anza Borrego, 4 ottobre 2017.
- *Cardinium* contribute to speciation in *Encarsia* wasps: a novel mechanism based on cytoplasmic incompatibility and Darwin's corollary
  9th International *Wolbachia* meeting, Lamington National Park, Australia, 29 giugno 2016.
- Effetto dell'incompatibilità citoplasmatica indotta da *Cardinium* nell'isolamento riproduttivo tra specie del complesso *Encarsia pergandiella* (Hymenoptera: Aphelinidae).
  XXV Italian Congress of Entomology, Padova, 21-24 giugno 2016.
- Speciation in the *Encarsia pergandiella* complex (Hymenoptera: Aphelinidae): effect of *Cardinium*-induced cytoplasmic incompatibility and nuclear incompatibilities.
  4th International Entomophagous Insects Conference, Torre del Mar, Spagna, 7 ottobre 2015.
- Speciation in the *Encarsia pergandiella* complex (Hymenoptera: Aphelinidae): modelling the effect of *Cardinium*-induced cytoplasmic incompatibility and nuclear incompatibilities.
  Entomological Society of America Pacific Branch 99th annual meeting, 7 aprile 2015.
- The role of *Cardinium*-induced cytoplasmic incompatibility and hybrid incompatibilities in the reproductive isolation between two closely related *Encarsia* (Hymenoptera: Aphelinidae) species.
  Entomological Society of America 62nd Annual Meeting, Portland, OR, 18 novembre 2014.
- *Pnigalio soemius* complex: Linking biosystematics and infection by endosymbiotic bacteria.
  I Annual Meeting of the PhD network "Insect Science". Firenze, Italy, 16 novembre 2010.
- Development of an interactive integrative key for the integrative taxonomy of the genus *Pnigalio*.

Entomology seminars, Department of Entomology, Università degli Studi di Naples Federico II, 21 maggio 2010.

- Integrative taxonomy: the importance of a multifaceted approach in the biosystematics of Hymenopteran parasitoids. A case study: *Pnigalio soemius* (Hymenoptera: Eulophidae). 1st Botanic and Zoological joined meeting. Biosystematics tools: from morphology to genomics. Università di Milano Bicocca, 5 giugno 2008.
- Morpho-bio-molecular characterization of the Italian species of the genus Pnigalio (Hymenoptera, Eulophidae), parasitoids of leafminers.
  Department of Entomology, University of California, Riverside, CA, USA, 31 gennaio 2007.

Partecipazione a convegni

- SoCal Microbiome Symposium, UCR, Riverside, CA, USA, 22 settembre 2023.
- Precision Agriculture Workshop, UCR, Riverside, CA, USA, 22 maggio 2023
- Joint Entomological Society of America (ESA), Entomological Society of Canada (ESC), Entomological Society of British Columbia (ESBC) meeting, Vancouver, Canada, 13-16 November 2022.
- SoCal Microbiome Symposium, UC Irvine, Irvine CA, 19 settembre 2022.
- 4th International Conference Insects to Feed the World, Quebec City, Canada, 12-16 giugno 2022.
- Entomological Society of America Pacific Branch 106th annual meeting, Santa Rosa, CA, 10-13 aprile 2022.
- 4th International Conference Insects to Feed the World, Quebec City, Quebec, Canada, 12-16 giugno 2022.
- Entomological Society of America 66st Annual Meeting, Vancouver, Canada, 10-14 novembre 2018.
- European Congress of Entomology, Napoli, 2-6 luglio 2018.
- W4185 Meeting, Anza Borrego, 4-5 ottobre 2017.
- XXV International Congress of Entomology, Orlando, FL, USA, 25-30 settembre 2016.
- 9th International *Wolbachia* conference, Lamington National Park, Australia, 28 giugno -3 luglio 2016.
- XXV Congresso Italiano di Entomologia, Padova, 21-24 giugno 2016.
- 4th International Entomophagous Insects Conference, Torre del Mar, Spagna, 4-9 ottobre 2015.
- Entomological Society of America Pacific Branch 99th annual meeting, Coeur d'Alene, ID, USA, 6-9 aprile 2015.
- Gordon Research Conference on Speciation, Ventura, CA, USA, 15-20 marzo 2015.
- Entomological Society of America 62nd Annual Meeting, Portland, OR, USA, 16-19 novembre 2014.
- 8th International Congress of Hymenopterists, Cusco, Peru, 20-25 luglio 2014.
- 8th International *Wolbachia* conference, Innsbruck, Austria, 6-11 giugno 2014.
- Entomological Society of America Pacific Branch 98th Annual Meeting, Tucson, AZ, USA, 6-9 aprile 2014.
- Entomological Society of America 61st Annual Meeting, Austin, TX, USA, 10-13 novembre 2013.
- Entomological Society of America 59th Annual Meeting, Reno, NV, USA, 13-16 novembre 2011.
- XXIII Congresso Italiano di Entomologia, Genova, 13-16 giugno 2011.
- 1st Annual Meeting of the PhD network "Insect Science". Firenze, 15-18 novembre 2010.
- XXII Italian Congress of Entomology, Ancona, 15-18 giugno 2009.
- 1st Botanic and Zoological joined meeting. Biosystematics tools: from morphology to genomics. Università di Milano Bicocca, Italy, 4-5 giugno 2008.

- X European Workshop on Insect parasitoids, Erice, 17-21 settembre 2007.

Atti di convegni

- Samson W, **Gebiola M**, Mauck KE. Evaluating byproducts of industrial black soldier fly rearing for plant priming and plant growth promotion activity
  California Plant and Soil Conference, Fresno, CA, USA, 6-7 febbraio 2024
- Samson W, **Gebiola M**, Mauck KE. Evaluating byproducts of industrial black soldier fly rearing for plant priming and plant growth promotion activity. American Phytopathological Society Plant Health 2023; Denver, CO, USA, 12-16 agosto 2023.
- Samson W, **Gebiola M**, Mauck KE. Fine tuning nitrogen and pesticide input by using black soldier fly byproducts as biofertilizers and soil amendments. Precision Agriculture Workshop, Riverside, CA, USA, 22 maggio 2023.
- Samson W, **Gebiola M**, Mauck KE. Applications of black soldier fly byproducts in agriculture. California Plant and Soil Conference, Fresno, CA, USA, 7-8 febbraio 2023
- **Gebiola M**, Garnica A, Pagliaccia D, Tomberlin J, McFrederick Q, Mauck K. Effect of Bokashi fermentation on the microbiome of larvae and frass of the black soldier fly *Hermetia illucens*. SoCal Microbiome Symposium, UC Irvine, Irvine CA, 19 settembre 2022.
- **Gebiola M**, Nugnes F, Navone P, Viggiani G, Heraty J, Bernardo U. First molecular phylogeny of the genus *Pnigalio* (Hymenoptera: Eulophidae) based on mitochondrial and ribosomal genes. XI European Congress of Entomology, Naples, Italy, 2-6 luglio 2018.
- Waclawik B, Nugnes F, Bernardo U, Lachowska-Cierlik D, **Gebiola M**. An integrative approach to assess the taxonomy and phylogeography of the genus *Leophloeodes* Weise 1894 (Coleoptera: Curculionidae).
  XI European Congress of Entomology, Naples, Italy, 2-6 luglio 2018.
- Sasso R, Gualtieri L, Russo E, Nugnes F, **Gebiola M**, Bernardo U. Biology, ecology and behaviour of *Baryscapus silvestrii* (Hymenoptera: Eulophidae), a gregarious pupal parasitoid of fruit-infesting flies.
  XI European Congress of Entomology, Naples, Italy, 2-6 luglio 2018.
- **Gebiola M**, Gomez-Marco F, Stouthamer R. Effects of host feeding on life traits of *Tamarixia radiata* (Hymenoptera: Eulophidae): Implications for biological control of the Asian Citrus Psyllid.
  Entomological Society of America 65th Annual Meeting, Denver, CO, USA, 5-8 novembre 2017.
- Nugnes F, Gualtieri L, **Gebiola M**, Sasso R, Nappo, AG, Russo E, Bernardo U. Evidence that *Rickettsia* manipulate the reproduction of *Quadrastichus mendeli*, a parasitoid of the *Eucalyptus* invasive pest *Leptocybe invasa* recently recorded in Italy.
  4th International Entomophagous Insects Conference, Torre del Mar, Spagna, 4-9 ottobre 2015.
- Gualtieri L, Sasso R, Russo E, Nugnes F, **Gebiola M**, Bernardo U. The complex of parasitoids associated with the invasive leafminer *Coptodisca lucifluella*: indigenous species and a case of host-tracking.
  4th International Entomophagous Insects Conference, Torre del Mar, Spagna, 4-9 ottobre 2015.
- Sasso R, Russo E, Nugnes F, Gualtieri L, **Gebiola M**, Borrelli MR, De Stefano P, Tiseo MS, Troiano E, Bernardo U. Peculiar behavioural and biological traits of *Baryscapus silvestrii* (Hymenoptera: Eulophidae), parasitoid of *Bactrocera oleae* and *Ceratitis capitata.*
  4th International Entomophagous Insects Conference, Torre del Mar, Spagna, 4-9 ottobre 2015.
- Monti MM, Nugnes F, Gualtieri L, Nappo AG, **Gebiola M**, Bernardo U. Thelytoky in the chalcidoid wasp *Thripoctenus javae* (Hymenoptera: Eulophidae) is not caused by bacterial endosymbionts.
  4th International Entomophagous Insects Conference, Torre del Mar, Spagna, 4-9 ottobre 2015.

- **Gebiola M**, Hammerstein P, Kelly SE, Giorgini M, Hunter MS. Speciation in the *Encarsia pergandiella* complex (Hymenoptera: Aphelinidae): modeling the effect of *Cardinium*-induced cytoplasmic incompatibility and hybrid incompatibilities.
  Gordon Research Conference on Speciation, Ventura, CA, USA, 15-20 marzo 2015
- **Gebiola M,** Kelly SE, Giorgini M, Hunter MS. Cytological mechanisms of *Cardinium*-induced cytoplasmic incompatibility in *Encarsia pergandiella* (Hymenoptera: Aphelynidae): Preliminary results.
  8th International *Wolbachia* meeting, Innsbruck, Austria, 6–11 giugno 2014.
- **Gebiola M,** Kelly SE, Giorgini M, Hunter MS. Cytological mechanisms of *Cardinium*-induced cytoplasmic incompatibility in *Encarsia pergandiella* (Hymenoptera: Aphelynidae): Preliminary results.
  8th International Congress of Hymenopterists, Cusco, Peru, 20–25 luglio 2014.
- Stouthamer C, **Gebiola M**, Kelly SE, Hunter MS. Insights into the evolution of *Cardinium*: the development of a Multi Locus Sequence Typing system.
  8th International *Wolbachia* meeting, Innsbruck, Austria, 6–11 giugno 2014.
- **Gebiola M**, Garonna AP. Indagine preliminare sulla presenza di coleotteri corticicoli e xilofagi in pinete della Campania.
  XXIII Congresso Italiano di Entomologia, Genova, 13-16 giugno 2011.
- **Gebiola M**, Garonna AP. Osservazioni sulla fenologia di *Tomicus destruens* (Wallaston) (Curculionidae: Scolytinae) in pinete della Campania.
  XXIII Congresso Italiano di Entomologia, Genova, 13-16 giugno 2011.
- **Gebiola M**, Garonna AP. Biodiversità e incidenza di antagonisti naturali in rapporto agli scolitidi *Tomicus destruens* e *Orthotomicus erosus* in Campania.
  XXIII Congresso Italiano di Entomologia, Genova, 13-16 giugno 2011.
- Giorgini M, Monti MM, Nugnes F, **Gebiola M**, Bernardo U. Ruolo di batteri simbionti nella riproduzione partenogenetica telitoca di *Leptocybe invasa* (Hymenoptera: Eulophidae).
  XXIII Congresso Italiano di Entomologia, Genova, 13-16 giugno 2011.
- Bernardo U, Iodice L, Sasso R, **Gebiola M**, Cascone P, Guerrieri E. Biologia, monitoraggio e controllo di *Dryocosmus kuriphilus* in Campania.
  XXIII Congresso Italiano di Entomologia, Genova, 13-16 giugno 2011.
- **Gebiola M**, Nugnes F, Navone P, Giorgini M, Bernardo U. Karyology and cytotaxonomy of the genus *Pnigalio* Schrank (Hymenoptera: Eulophidae).
  I Annual Meeting of the PhD network "Insect Science". Firenze, 16 novembre 2010.
- **Gebiola M,** Bernardo U, Navone P, Viggiani G. Contributo alla caratterizzazione di *Pnigalio pectinicornis* L. (Hymenoptera: Eulophidae) e specie affini.
  XXII Congresso Italiano di Entomologia, Ancona, 15-18 giugno 2009.
- **Gebiola M,** Bernardo U, Monti MM, Navone P, Viggiani G. *Pnigalio agraules – P. mediterraneus* (Hymenoptera: Eulophidae): A true synonymy?
  XXIII International Congress of Entomology, Durban, South Africa, 6-12 luglio 2008.
- Giorgini M, Bernardo U, Monti MM, Nappo AG, **Gebiola M.** Microbe-induced parthenogenesis in a *Pnigalio* parasitic wasp.
  5th International Wolbachia Conferente, Kolymbari, Creta, Grecia, 9-14 giugno 2008.
- **Gebiola M**, Bernardo U, Monti MM, Nappo AG, Navone P, Heraty JM. Polyphagous species or cryptic species complexes of host-specific and oligophagous populations? A case study: *Pnigalio soemius*.
  X European Workshop on Insect parasitoids, 17-21 settembre 2007, Erice.
- Giorgini M, Bernardo U, Monti MM, Nappo AG, **Gebiola M.** Microbe-induced parthenogenesis in a parasitic wasp of the *Pnigalio soemius* species complex.
  X European Workshop on Insect parasitoids, Erice, 17-21 settembre 2007.

- **Gebiola M**, Bernardo U, Monti MM, Nappo AG, Munro J, Navone, P. Specie polifaghe: complessi di specie o popolazioni ospite-specifiche? Un caso studio: *Pnigalio soemius*. XXI Congresso Italiano di Entomologia, Campobasso, 1-16 giugno 2007.
- Bernardo U, Monti MM, Nappo AG, **Gebiola M**, Russo A, Pedata PA, Viggiani G. Species status of populations of *Pnigalio soemius* (Walker) (Hymenoptera: Eulophidae) reared from two different hosts: a complementary approach.
  VIII European Congress of Entomology, Izmir, Turchia, 17-22 settembre 2006.