

## PERSONAL INFORMATION



## Iliaria Negri, PhD, Entomologist

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Sex Female | Date of birth 23/11/1973 | Nationality Italian

## WORK EXPERIENCE

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- 01/06/2017–Present **Researcher in Entomology, Department of Sustainable Crop Production**  
Catholic University of Piacenza (Italy)
- 07/02/2002–31/01/2003 **Research fellow**  
Institute of Entomology, Catholic University of Piacenza (Italy)  
*Ooparasitoids for the biological control of insect pests*
- 05/02/2003–31/12/2003 **Research Fellow - Romeo ed Enrica Invernizzi Foundation**  
Institute of Entomology, Catholic University of Piacenza (Italy)  
*Modified atmospheres for insect pests of stored products*
- 01/04/2004–31/08/2008 **Post-doctoral fellow**  
Di.Va.P.R.A., University of Turin (Italy)  
*Microbial manipulators of insect reproduction*
- 01/02/2008–30/04/2008 **Visiting Scholar**  
Department of Biological Sciences, University of Southern California, Los Angeles (United States)  
*Subtractive hybridization techniques for the study of the transcriptome in non-model insects*
- 15/12/2008–21/12/2008 **Grant**  
Grant COST (European Cooperation in Science and Technology) STSM FA0701-04267  
"Arthropod Symbiosis: From Fundamental Studies to Pest and Disease Management" -  
Laboratory of Ecology, Evolution, Symbiosis, University of Poitiers, Poitiers (France)  
*Microinoculation of endosymbionts in phylogenetically distant hosts*
- 02/12/2008–27/01/2010 **Research fellow**  
Di.Va.P.R.A., University of Turin (Italy), Torino (Italy)  
*Microbial manipulators of insect reproduction*
- 01/01/2011–24/01/2014 **PhD student in Agricultural, Forest and Food Sciences**  
University of Turin (Italy)
- 01/09/2016–31/05/2017 **High school teacher**

Scientific Lycaeum, Parma (Italy)

EDUCATION AND TRAINING

30/03/1999 **PhD in Animal Biology**  
University of Bologna, Bologna (Italy)  
*Trophic interactions of Collembola*

12/09/2001–13/09/2002 **MASTER degree in Food Safety and Environmental Health**  
Catholic University of Piacenza (Italy)

13/01/2014–Present **National Scientific Qualification - Associate Professor in Zoology**

05/03/2014–Present **National Scientific Qualification - Associate Professor in Entomology**

30/07/2018–Present **National Scientific Qualification - Full Professor in Entomology**

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Independent user

Digital skills - Self-assessment grid

Driving licence B

ADDITIONAL INFORMATION

Patent ■ Italian Patent (N. MI2004A001386): *Honey bees and bee wax as a monitoring instrument of Volatile Organic Compounds*

Editorial activity ■ Topic Editor - Frontiers in Genetics  
■ Academic Editor - PeerJ

Peer-reviewed publications ■ Pellecchia M. & **Negri I.** (2018) - Particulate Matter collection by honey bees (*Apis mellifera*, L.) near to a cement factory in Italy. PeerJ Jul 24;6: e5322.  
■ **Negri I.** & Jablonka E. (2016) - Host-symbiont epigenetic crosstalk: a "koiné language" that enables communication between different species. Frontiers in Genetics, Epigenomics and Epigenetics, Feb 9; 7:7.

- Gonella E., Pajoro M., Marzorati M., Crotti E., Mandrioli M., Pontini M., Bulgari D., **Negri I.**, Sacchi L., Chouaia B., Daffonchio D., Alma A. (2015) - Plant-mediated interspecific horizontal transmission of an intracellular symbiont in insects. *Scientific Reports*, 13;5: 15811.
- **Negri I.**, Mavris C., Di Prisco G., Caprio E., Pellecchia M. (2015) - Honey Bees (*Apis mellifera*, L.) as active samplers of airborne Particulate Matter. *PLoS One*. Jul 6;10(7), e0132491.
- Asgharian H., Chang P.L., Mazzoglio P.J., **Negri I.** (2014) - *Wolbachia* is not all about sex: male-feminizing *Wolbachia* alters the leafhopper *Zyginidia pullula* transcriptome in a mainly sex-independent manner. *Frontiers in Microbiology*, 5, 430.
- **Negri I.** (2012) - *Wolbachia* as an "infectious" extrinsic factor manipulating host signaling pathways. *Frontiers in Endocrinology*, 2, 115.
- Gonella E., **Negri I.**, Marzorati M., Mandrioli M., Sacchi L., Pajoro M., Crotti E., Rizzi A., Clementi E., Tedeschi R., Bandi C., Alma A., Daffonchio D. (2011) - Bacterial endosymbiont localization in *Hyalesthes obsoletus*, the insect vector of Bois Noir in *Vitis vinifera*. *Applied and Environmental Microbiology*, 77 (4), 1423–1435.
- Sacchi L., Genchi M., Clementi E., **Negri I.**, Alma A., Ohler S., Sassera D., Bourtzis K., Bandi C. (2010) - Bacteriocyte-like cells harbour *Wolbachia* in the ovary of *Drosophila melanogaster* (Insecta, Diptera) and *Zyginidia pullula* (Insecta, Hemiptera). *Tissue & Cell*, 42(5):328-33.
- **Negri I.**, Pellecchia M., Grève P., Daffonchio D., Bandi C., Alma A. (2010) - Sex and stripping: the key to the intimate relationship between *Wolbachia* and host? *Communicative & Integrative Biology*, 3 (2), 21-26.
- Merli A., Reeves G., Meregalli G., Piccinini A., **Negri I.**, Carmignano P., Balderacchi M., Capri E. (2010) – Surface-water exposure to quinoxifen: assessment in landscape vineyards. *Journal of Hydrology*, 383, 62–72.
- **Negri I.**, Mazzoglio P.J., Franchini A., Mandrioli M., Alma A. (2009) - Male or female? The epigenetic conflict between a feminizing bacterium and its insect host. *Communicative & Integrative Biology*, 2, 1-2.
- Crotti E., Damiani C., Pajoro M., Gonella E., Rizzi A., Ricci I., **Negri I.**, Scuppa P., Rossi P., Ballarini P., Raddadi N., Marzorati M., Sacchi L., Clementi E., Genchi M., Mandrioli M., Bandi C., Favia F., Alma A., Daffonchio D. (2009) - *Asaia*, a versatile acetic acid bacterial symbiont, capable of cross-colonizing insects of phylogenetically-distant genera and orders. *Environmental Microbiology*, 11(12), 3252-6.
- **Negri I.**, Franchini A., Gonella E., Daffonchio D., Mazzoglio P.J., Mandrioli M., Alma A. (2009) - Unravelling the *Wolbachia* evolutionary role: the reprogramming of the host genomic imprinting. *Proceedings of the Royal Society of London B - Biological Sciences*, 276, 2485-91.
- Sacchi L., Genchi M., Clementi E., Bigliardi E., Avanzati A.M., Pajoro M., **Negri I.**, Marzorati M., Gonella E., Alma A., Daffonchio D., Bandi C. (2008) - Multiple symbiosis in the leafhopper *Scaphoideus titanus* (Hemiptera: Cicadellidae): details of transovarial transmission of *Cardinium* sp. and yeast-like endosymbionts. *Tissue & Cell*, 40 (4), 231-42.
- Crotti E., Pajoro M., Damiani C., Ricci I., **Negri I.**, Rizzi A., Clementi E., Raddadi N., Scuppa P., Marzorati M., Pasqualini L., Bandi C., Favia F., Alma A., Daffonchio D. (2008) - *Asaia*, a transformable bacterium, associated with *Scaphoideus titanus*, the vector of "flavescence dorée". *Bulletin of Insectology*, 61, 219-220.
- **Negri I.**, Franchini A., Mandrioli M., Mazzoglio P.J., Alma A. (2008) - The gonads of *Zyginidia pullula* males feminized by *Wolbachia pipientis*. *Bull. Insectol.*, 61, 213-214.
- Pajoro M., Marzorati M. **Negri I.**, Sacchi L., Daffonchio D., Alma A (2008) - Investigation over the life cycle of ST1-C the endosymbiont of *Scaphoideus titanus*. *Bulletin of Insectology*, 61, 217-218.
- Gonella E., **Negri I.**, Marzorati M., Brusetti L., Pajoro M., Mandrioli M., Tedeschi R., Daffonchio D., Alma A. (2008) - Study of the bacterial community affiliated to *Hyalesthes obsoletus*, the insect vector of "bois noir" phytoplasma of grape. *Bulletin of Insectology*, 61, 221-222.
- Favia G., Ricci I., Marzorati M., **Negri I.**, Alma A., Sacchi L., Bandi C., Daffonchio D. (2007) Bacteria of the genus *Asaia*: a potential paratransgenic weapon against malaria. *Advances in Experimental Medicine and Biology*, 627, 49-59.
- Favia G., Ricci I., Damiani C., Raddadi N., Crotti E., Marzorati M., Rizzi A., Urso R., Brusetti L., Borin S., Mora D., Scuppa P., Pasqualini L., Clementi E., Genchi M., Corona S., **Negri I.**, Grandi G., Alma A., Kramer L., Esposito F., Bandi C., Sacchi L., Daffonchio D. (2007) - Bacteria of the genus *Asaia* stably associate with *Anopheles stephensi*, an Asian malarial mosquito vector. *Proceedings of the National Academy of Science USA*, 104 (21), 9047-9051.
- **Negri I.**, Pellecchia M., Mazzoglio P.J., Patetta A., Alma A. (2006) – Feminizing *Wolbachia* in

*Zyginidia pullula* (Insecta, Hemiptera), a leafhopper with a XX/X0 sex determination system. Proceedings of the Royal Society of London B - Biological Sciences, 273, 2409–2416.

- Frati F., **Negri I.**, Fanciulli P.P., Pellecchia M., Dallai R. (2006) - Ultrastructural and molecular identification of a new *Rickettsia* endosymbiont in the springtail *Onychiurus sinensis* (Hexapoda, Collembola). Journal of Invertebrate Pathology, 93, 150–156.
- **Negri I.**, Pellecchia M., Fanciulli P.P. (2005) – Two new species within the genus *Seira* Lubbock from Morocco (Collembola, Entomobryidae). Zootaxa, 840, 1–12.
- **Negri I.** (2004) – Spatial distribution of Collembola in presence and absence of a predator. Pedobiologia, 48, 585–588.
- Chiappini E. & **Negri I.** (2004) – Flagellar sensilla of *Quadraspidiotus perniciosus* Comstock (Rhynchota: Diaspididae) male. Micron, 35/7, 597–605.
- Frati F., **Negri I.**, Fanciulli P.P., Pellecchia M., De Paola V., Scali V., Dallai R. (2004) - High levels of genetic differentiation between *Wolbachia*-infected and non-infected populations of *Folsomia candida* (Collembola, Isotomidae). Pedobiologia, 48, 461–468.
- **Negri I.** (2004) - Study of the possible roles of Collembola in the soil trophic web. Acta Naturalia de l'Ateneo Parmense. 38 (1), 53–56.
- Chiappini E., Dindo M.L., **Negri I.**, Sighinolfi L. (2004) – In vitro rearing of *Anagrus breviphragma* (Hymenoptera: Mymaridae), an egg parasitoid of *Cicadella viridis* (Rhynchota: Cicadellidae), from second instar larva to adult on diets without insect components. European Journal of Entomology, 101 (3), 419–422.