

GIGLIO ANITA

Date and place of birth: 25th March, 1970; Cosenza (Italy)

Education and academic qualifications

1989: Secondary School Diploma, scientific studies - Liceo Scientifico "F. Balsano" Roggiano Gravina (Italy)

1989-1995: Diploma in Biology, University of Calabria; diploma thesis entitled: Adattamenti morfologici e comportamentali di un Coleottero Carabide mirmecofago, *Siagona europaea* Dejean, Principal investigator: prof Tullia Zetto; grade: 107/110

1996: Qualified as a Professional Biologist

1998-2000: PhD in Animal Biology, University of Calabria; PhD thesis entitled "Indagine morfologica e morfofunzionale dei sensilli di appendici boccali in larve di Coleotteri Carabidi".
tutor: prof Tullia Zetto

Professional career

2001-2003: Postdoctoral research fellow, Department of Ecology, University of Calabria. title: Biologia dei Coleotteri Carabidi con particolare riguardo all'evoluzione dei sistemi sensoriali ed immunitari" Principal collaborators: prof Tullia Zetto, Prof Enrico Ferrero (University of Trieste, Italy), profs Thomas Bauer and Oliver Betz (University of Kiel, Germany), prof Roberto Cnrjar and dr Paolo Solari (University of Cagliari, Italy); topics: Physiology and ultrastructure of sense organs in carabid beetles referred to prey-predator relationship.

since 2004: assistant professor, Department of Biology, Ecology and Earth Sciences, University of Calabria.

since 2004: head of the Laboratory of Morpho-functional Entomology, Department of Biology, Ecology and Earth Sciences, University of Calabria.

since 2005: board member of Life Science PhD course, University of Calabria.

since 2008: board member of the Biology course, Department of Biology, Ecology and Earth Sciences, University of Calabria.

2007-2011: delegate by the Head of Department of Ecology, University of Calabria to the Prevention and Safety, Laboratory of Zoology and Zoocoenosis

2014-2016: delegate by the Head of Department to the Prevention and Safety of Department of Biology, Ecology and Earth Sciences, University of Calabria.

Teaching activities

Practical course of Life Sciences (academic year 1998-1999) and Zoology (academic year 2000-2001), Department of Ecology, University of Calabria.

Practical course of General and applied Entomology, Department of Ecology, Faculty of Sciences, University of Calabria (Academic year 2002-2003; 2003-2004)

School in Natural Science for teacher of secondary school, University of Calabria:

- lecture and practical course: 1) General biology and genetic (academic year 2003/2004, 2004/2005, 2005/2006). Zoology (academic year 2004/2005, 2005/2006, 2006/2007, 2007/2008). 2)

Laboratory teaching method in Animal biology (academic year 2008/2009)

- tutorial activities: teaching method in Ecology and Environment course (academic year 2004/2005, 2005/2006, 2006/2007, 2007/2008, 2008/2009)

Trimestral course of Ecology (academic year 2004/2005, 2005/2006, 2006/2007, 2007/2008), Animal biodiversity (academic year 2004/2005) and Zoology, Department of Ecology, Faculty of Sciences, University of Calabria

Supervisor of diploma thesis (since 1996)

Lectures for Ph.D course on Animal Biology (2006-2011)

Lecture for master in Applied microscopy (academic year 2004/2005)

Semestral course of Zoology, Biology diploma, Department of Biology, Ecology and Earth Sciences, University of Calabria (2009-present)

Science awards and recognitions

1996-1997 Regione Calabria, Dipartimento Cultura, Istruzione, Università e Ricerca. Programme supporting young researchers.

1999 - visiting PhD student "ERASMUS project" University of Kiel (Germany), tutor: prof Thomas Bauer.

2007 Progetto PRIN - MIUR, University of Calabria awards for young researchers, Principal investigator: dr Anita Giglio.

2007-2013 BioDiNet - Rete per la conservazione della biodiversità e del paesaggio culturale.

Principal investigators prof. A. Pallavicini, University of Trieste

2011-2013 Progetto PRIN - MIUR project, title: Geni e molecole dell'immunità degli invertebrati. Struttura, funzioni, precursori evolutivi e trasferibilità nella ricerca applicata. Principal investigator: prof. Lorian Ballarin

Research fields

Research interests are focused on:

- i) physiology and ultrastructure of insect sense organs and gland secretions referred to prey-predator relationship;
- ii) individual variation of immune defences to study how insects defend themselves against infection and how immunity is intertwined with other components of host physiology (reproduction);
- iii) effect of environmental pollutants such as heavy metals and pesticides on immune response variations of beneficial insects living in agroecosystems.

A great variety of methods was employed including light and electron microscopy (TEM and SEM), electrophysiology, chemical and biochemical analyses and behavioural observation.

ERC fields: LS1_1 Molecular biology and interactions, LS6_1 Innate immunity, LS6_3 Phagocytosis and cellular immunity, LS8_9 Environmental toxicology

Publication metrics

Researcher ID: A-1382-2016

Scopus Author ID: 15055548400

Scholar: <https://scholar.google.it/citations?hl=it&user=C4Jj1DwAAAAJ>

Non-university activities

Unione Zoologica Italiana (2003-present)

Italian Association of Developmental and Comparative Immunobiology (2011-present)

Società Entomologica Italiana (2012-present)

Reviewer activity for Zootaxa, Micron, Neotropical Entomology, Journal of Insect Science, Journal of the Kansas Entomological Society, Arthropod Structure & Development, Insect Science, Acta Zoologica, Journal of Morphology, Ecological Indicators, Physiological Entomology, Zoology, Ecotoxicology and Environmental Safety.