CURRICULUM VITAE PROF DAVIDE MALAGOLI

Department of Life Sciences
University of Modena and Reggio Emilia, Modena, Italy

EDUCATION

Jul 1999: Degree: B.Sc. in Biological Sciences, at the University of Modena and Reggio Emilia (Italy) (110/110 *cum laude*).
Feb 2004: PhD in “Evolutionary Biology” at the University of Modena and Reggio Emilia (Italy).

EXPERIENCE

May - July 2003: Visiting scientist at the Animal Health & Biomedical Sciences (University of Wisconsin-Madison,WI, USA)
Jan - Dec 2004: Postdoc fellowship at the Dept. of Animal Biology (University of Modena and Reggio Emilia, Italy) in “Effects of extremely-low frequency magnetic fields on the Heat Shock Proteins”.
Jan 2005: Postdoc fellowship at the Dept. of Animal Biology (University of Modena and Reggio Emilia, Italy) in “Alimentary toxicity of the algal toxin yessotoxin”.
Jan 2005 - Oct 2014: Assistant Professor of Cytology and Comparative anatomy at the Dept. of Animal Biology, at the University of Modena and Reggio Emilia (Italy).
Nov 2014 - Today: Associate Professor of Cytology and Comparative anatomy at the Dept. of Life Sciences), at the University of Modena and Reggio Emilia (Italy).
Aug 2016, Feb 2017, Aug 2017, Feb 2018: Visiting scientist at the Stowers Institute for Medical Research (Kansas City, USA).

TEACHINGS

Undergraduate courses

Jan 2005 - Today: “Comparative Anatomy” for Bachelor Students in Biological Sciences at the University of Modena and Reggio Emilia (Italy).
2007 - 2010: “Human Anatomy” for Bachelor Students in Biological Sciences at the University of Modena and Reggio Emilia (Italy).
2015 - Today: “Immunobiology” for Master Students in Biological Sciences at the University of Modena and Reggio Emilia (Italy).
2016 - Today: “Cytology” for Bachelor Students in Biological Sciences at the University of Modena and Reggio Emilia (Italy).

PhD courses

2006 - 2010: Member of the Faculty of the PhD course in Evolutionary Biology
2013 - 2016: Member of the Faculty of the PhD course in Earth System Sciences (Topic: Evolutionary and Environmental Biology)
2016 - 2020: Member of the Faculty of the PhD course in "Models and Methods for Material and Environmental Sciences"

OTHER SCIENTIFIC ACTIVITIES

2007 - 2017: Executive Editor of the peer reviewed journal ISJ-Invertebrate Survival Journal, indexed by “InCites Journal Citation Report” (Impact Factor: 0.806 5-Year Impact Factor: 1.151)

2018-Today: Editor-in-chief of ISJ-Invertebrate Survival Journal

Beside this editorial role, DM is actively reviewer for several international journals.

DM is member of the following scientific societies:

- International Society of Developmental and Comparative Immunology (ISDCI);
- International Society of Fish and Shellfish Immunology (ISFSI)
- Italian Association of Developmental and Comparative Immunobiology (IADCI) -Board Member-
- Italian Society of Developmental and Cellular Biology (GEI-SIBSC) –Board Member-

RESEARCH ACTIVITIES

Dr Malagoli main research interests include:

- signals and mechanisms of cell differentiation and programmed cell death in invertebrates
- immune-neuroendocrine interactions in invertebrate models

In these fields DM has published 62 research articles and 20 reviews in peer reviewed and indexed journals.
He also edited the edition of 3 international books, and authored 9 international book chapters.
DM presented or has been co-author of 51 congress proceedings, many of them published in peer reviewed journals.

On January 18th 2019, Scopus reported the following metrics: 100 cited documents, 3614 citations and *h* index= 22.

On March 31st 2017 DM’s scientific level has been considered proper for an upgrade to a Full Professorship in Comparative Anatomy and Cytology. This evaluation will be valid until March 31st 2023.

Evaluation of research quality (VQR) 2011-14: Excellent

PUBLICATIONS 2014-2020

RESEARCH ARTICLES

1. Zibaee, A., **Malagoli, D**. Immune response of *Chilo suppressalis* Walker (Lepidoptera: Crambidae) larvae to 3 different entomopathogenic fungi. *Bull. Entomol. Res.* **104**: 155-163, 2014.
2. Accorsi, A., Ottaviani, E., **Malagoli, D.** Effects of repeated hemolymph withdrawals on the hemocyte populations and hematopoiesis in *Pomacea canaliculata*. *Fish Shellfish Immunol.* **38**: 56-64, 2014.

3. Carra, S., **Malagoli, D.,** Ney, P. A., Steffan, J. S. Autophagy Researchers. *Autophagy* **10**: 188-191, 2014.
4. Grimaldi, A., Tettamanti, G., Girardello, R., Pulze, L., Valvassori, R., **Malagoli, D**., Ottaviani, E., de Eguileor, M. Functional amyloid formation in LPS activated cells from invertebrates to vertebrates. *Inv. Surv, J.* **11**: 286-297, 2014.
5. Tascedda, F., **Malagoli, D.,** Accorsi, A., Rigillo, G., Blom, J. M. C., Ottaviani, E. Molluscs as models for translational medicine. *Med. Sci. Monit. Basic Res.* **21**: 96-99, 2015.
6. Accorsi, A., Benatti, S., Ross, E., Nasi, M., **Malagoli, D**. A prokineticin-like protein responds to immune challenges in the gastropod pest *Pomacea canaliculata*. *Dev. Comp. Immunol.* **72**: 37-43, 2017.
7. Boraldi, F., Lofaro, F. D., Accorsi, A., Ross E., **Malagoli, D**. Towards the molecular deciphering of Pomacea canaliculata immunity: first proteomic analysis of circulating hemocytes. *Proteomics* **19**: e1800314, 2019.
8. Montanari, A., Bergamini, G., Ferrari, A., Ferri, A., Nasi, M., Simonini, R., **Malagoli, D**. The Immune Response of the Invasive Golden Apple Snail to a Nematode-Based Molluscicide Involves Different Organs. *Biology*. **9**: 371, 2020.

REVIEWS

1R.- Accorsi, A., Zibaee, A., **Malagoli, D**. The multifaceted activity of insect caspases. *J. Insect Physiol.* **76**: 17-23, 2015.

2R.- **Malagoli, D.,** Ottaviani, E. ACTH in invertebrates: a molecule for all seasons*. Inv. Surv. J.,* **13**: 28-33, 2016

3R.- **Malagoli, D.,** Mandrioli, M., Tascedda, F., Ottaviani, E. Circulating phagocytes: the ancient and conserved interface between immune and neuroendocrine function. *Biol Rev Camb Philos Soc*. **92**: 369-377, 2017.

4R.- **Malagoli, D.**, Ottaviani, E. Cross-talk among immune and neuroendocrine systems in molluscs and other invertebrate models. *Horm. Behav*. **88**: 41-44, 2017.

5R.- **Malagoli, D.** Going beyond a static picture: the apple snail Pomacea canaliculata can tell us the life history of molluscan hemocytes. *Invertebr. Surv. J.* **15**: 61-65, 2018.

6R.- Zibaee, A., Malagoli, D. The potential immune alterations in insect pests and pollinators after insecticide exposure in agroecosystem. *Invertebr. Surv. J.* **17**: 99-107, 2020

BOOK CHAPTER

1Ch. **Malagoli D,** Ottaviani, E. Immune-neuroendocrine integration and its evolution. *In:* Eco-immunology: Evolutive aspects and future perspectives, pp 93-104 (D. Malagoli, E. Ottaviani eds), Springer Science+Business Media, Dodrecht, the Netherlands, 2014.

2Ch. Demetrius, L.A., **Malagoli D.** Mouse models as paradigms of human diseases. *In:* Eco-immunology: Evolutive aspects and future perspectives, pp 163-177 (D. Malagoli, E. Ottaviani eds). Springer Science+Business Media, Dodrecht, the Netherlands, 2014.

3Ch. Smith, V., Accorsi, A., Malagoli, D., 2016. Hematopoiesis and hemocytes in pancrustacean and molluscan models. *In*: The evolution of the immune system, pp 1-28 (D. Malagoli, ed). Academic Press, 2016.

4Ch. Malagoli, D., Ottaviani, E. Cell death pathways in an unconventional invertebrate model. In: Lessons in immunity: from single-cell organisms to mammals, pp 17-27 (L. Ballarin, M. Cammarata, eds). Academic Press, 2016

BOOKS

1V. Ottaviani, E., **Malagoli, D.** Eco-immunology: Evolutive aspects and future perspectives. Springer Science+Business Media, Dodrecht, the Netherlands, ISBN: 978-94-017-8711-6, 2014.

2V. **Malagoli, D.** The Evolution of the Immune System: a balance between conservation and diversity. Academic Press, ISBN: 978-0-12-801975-7, 2016

CHAPTERS IN ITALIAN BOOKS FOR UNIVERSITY

1Ca. **Malagoli, D.,** Lectine, citochine e molecole altamente variabili nei non-Vertebrati in “Compendio di Immunologia Comparata”, Piccin Nuova Editore, Padova, 2014.

Modena, January 5th 2021

Faithfully Davide Malagoli, PhD