

## Elenco delle pubblicazioni presentate

(\*: equal contributions)

- 1) **Balzani, P.**, Vizzini, S., Santini, G., Masoni, A., Ciofi, C., Ricevuto, E., Chelazzi, G., 2016. Stable isotope analysis of trophic niche in two co-occurring native and invasive terrapins, *Emys orbicularis* and *Trachemys scripta elegans*. *Biological invasions* 18: 3611-3621.
- 2) Haubrock, P.J.\*, **Balzani, P.\***, Azzini, M.\*, Inghilesi, A.F., Veselý, L., Guo, W., Tricarico, E., 2019. Shared histories of co-evolution may affect trophic interactions in a freshwater community dominated by alien species. *Frontiers in Ecology and Evolution* 7: 355.
- 3) Haubrock, P.J.\*, **Balzani, P.\***, Britton, J.R., Haase, P., 2020. Using stable isotopes to analyse extinction risks and reintroduction opportunities of native species in invaded ecosystems. *Scientific reports* 10: 1-11.
- 4) **Balzani, P.**, Gozlan, R.E., Haubrock, P.J., 2020. Overlapping niches between two co-occurring invasive fish: the topmouth gudgeon *Pseudorasbora parva* and the common bleak *Alburnus alburnus*. *Journal of Fish Biology* 97: 1385-1392.
- 5) Haubrock, P.J.\*, **Balzani, P.\***, Matsuzaki, S.I.S., Tarkan, A.S., Kourantidou, M., Haase, P., 2021. Spatio-temporal niche plasticity of a freshwater invader as a harbinger of impact variability. *Science of The Total Environment* 777: 145947.
- 6) **Balzani, P.**, Vizzini, S., Frizzi, F., Masoni, A., Lessard, J.P., Bernasconi, C., Francoeur, A., Ibarra-Isassi, J., Brassard, F., Cherix, D., Santini, G., 2021. Plasticity in the trophic niche of an invasive ant explains establishment success and long-term coexistence. *Oikos* 130: 691-696.
- 7) **Balzani, P.\***, Haubrock, P.J.\*, Russo, F., Kouba, A., Haase, P., Veselý, L., Masoni, A., Tricarico, E., 2021. Combining metal and stable isotope analyses to disentangle contaminant transfer in a freshwater community dominated by alien species. *Environmental Pollution* 268B: 115781.
- 8) **Balzani, P.\***, Masoni, A.\*, Venturi, S., Frizzi, F., Bambi, M., Fani, R., Nisi, B., Tassi, F., Vaselli, O., Zaccaroni, M., Santini, G., 2022. CO<sub>2</sub> biogeochemical investigation and microbial characterization of red wood ant mounds in a Southern Europe montane forest. *Soil Biology and Biochemistry* 166: 108536
- 9) **Balzani, P.**, Kourantidou, M., Kouba, A., Tricarico, E., Haubrock, P.J., 2022. Metal accumulation in relation to size and body condition in an all-alien species community *Environmental Science and Pollution Research* 29: 25848-25857
- 10) **Balzani, P.**, Galeotti, G., Scheggi, S., Masoni, A., Santini, G., Baracchi, D., 2022. Acute and chronic ingestion of polyethylene (PE) microplastics has mild effects on honey bee health and cognition. *Environmental Pollution* 305: 119318.
- 11) **Balzani, P.**, Dekoninck, W., Feldhaar, H., Freitag, A., Frizzi, F., Frouz, J., Masoni, A., Robinson, E., Sorvari, J., Santini, G., 2022. Challenges and a call to action for protecting European red wood ants. *Conservation Biology*: e13959.
- 12) **Balzani, P.**, Haubrock, P.J., 2022. Expanding the invasion toolbox: including stable isotope analysis in risk assessment. *NeoBiota* 76: 191-210.

## Tesi di dottorato

Balzani, P. (2022). Analysis of introduced and autochthonous populations of the red wood ant *Formica paralugubris*: ecological interactions and conservation issues.

List of selected publications:

**AC= author of correspondence.**

**Parenthesis indicate my position / number of authors for each article.**

1. Gutiérrez-Pesquera, L. M., Tejedo, M., Camacho, A., Enriquez-Urzelai, U., Katzenberger, M., Choda, M., ... & Nicieza, A. G. (2022). **Phenology and plasticity can prevent adaptive clines in thermal tolerance across temperate mountains: The importance of the elevation-time axis.** *Ecology and Evolution*, 12(10), e9349. (3/8). Citations: 0. DOI: 10.1002/ece3.9349.
2. Lima, C., Helene, A. F., & Camacho, A. 2021. **Leaf-cutting ants' critical and voluntary thermal limits show complex responses to size, heating rates, hydration level, and humidity.** *Journal of Comparative Physiology B*, 1-11. AC: Camacho, A. (3/3). Citations:4. DOI: 10.1007/s00360-021-01413-6
3. Guevara-Molina, E. C., Gomes, F. R., & Camacho, A. 2020. **Effects of dehydration on thermoregulatory behavior and thermal tolerance limits of *Rana catesbeiana*.** *Journal of Thermal Biology*, 93, 102721. (3/3). Citations: 13. DOI: 10.1016/j.jtherbio.2020.102721
4. Wiens, J. J., Camacho, A., Goldberg, A., Jezkova, T., Kaplan, M. E., Lambert, S. M., ... & Walls, R. L. 2019. **Climate change, extinction, and Sky Island biogeography in a montane lizard.** *Molecular ecology*, 28(10), 2610-2624. (2/8). Citations:18. DOI: 10.5061/dryad.dp13668).
5. Recoder, R., Prates, I., Marques-Souza, S., Camacho, A., Nunes, P. M. S., Dal Vechio, F., ... & Rodrigues, M. T. (2020). Lizards from the Lost World: two new species and evolutionary relationships of the Pantepui highland *Riolama* (Gymnophthalmidae). *Zoological Journal of the Linnean Society*, 190(1), 271-297. (4/9). Citations:9. DOI: 10.1093/zoolinnean/zlzl68.
6. Camacho, A., Rusch, T., Ray, G., Telemeco, R. S., Rodrigues, M. T., & Angilletta, M. J. 2018. **Measuring behavioral thermal tolerance to address hot topics in ecology, evolution, and conservation.** *Journal of Thermal Biology*, 73, 71-79. AC: Camacho, A. (1/5). Citations: 40. DOI: 10.1016/j.jtherbio.2018.01.009
7. Camacho, A., & Rusch, T. W. 2017. **Methods and pitfalls of measuring thermal preference and tolerance in lizards.** *Journal of Thermal Biology*, 68, 63-72. AC: Camacho, A. (1/2). Citations: 55. DOI: 10.1007/s00360-021-01413-6.
8. Camacho, A., Recoder, R., Teixeira Jr, M., Kohlsdorf, T., Rodrigues, M. T., & Lee, M. S. 2017. **Overcoming phylogenetic and geographic uncertainties to test for correlates of range size evolution in gymnophthalmid lizards.** *Ecography*, 40(6), 764-773.1. AC: Camacho, A. (1/6). Citations: 48. DOI: 10.1111/ecog.02282
9. Camacho, A., Rodrigues, M. T., & Navas, C. 2015. **Extreme operative temperatures are better descriptors of the thermal environment than mean temperatures.** *Journal of thermal biology*, 49,106-111. AC: Camacho, A. (1/3). Citations: 40. DOI: 10.1016/j.jtherbio.2015.02.007.
10. Camacho, A., Pavao, R., Moreira, C. N., Pinto, A. C. B. F., Navas, C. A., & Rodrigues, M. T. 2015. **Interaction of morphology, thermal physiology and burrowing performance during the evolution of fossoriality in Gymnophthalmini lizards.** *Functional Ecology*, 29(4), 515-52 AC: Camacho, A. (1/6). Citations: 22. DOI: 10.1111/1365-2435.12355
11. Lee, M. S., Skinner, A., & Camacho, A. 2013. **The relationship between limb reduction, body elongation and geographical range in lizards (Lerista, Scincidae).** *Journal of Biogeography*, 40(7),1290-1297. (3/3). Citations: 33. DOI: 10.1111/jbi.12094
12. Camacho, A. (2012). Responses of terrestrial ectothermic animals to microclimatic variation. *Revista da Biologia*, 8(1), 5-14. AC: Camacho, A. (1/1). Citations: 10. DOI: doi.org/10.7594/revbio.08.02

Date: 2/05/2023

Lista pubblicazioni scientifiche:

- 13) Tesi dottorale: Cifoni M, 2014. Sensitivity of freshwater hypogean and epigean copepod species to anthropogenic pollutants and their use in the environmental risk assessment. Tutor: Prof.ssa Diana Maria Paola Galassi, Cotutor: Ricercatrice Tiziana di Lorenzo
- 12) **Cifoni M**, Boggero A, Rogora M, Ciampittiello M, Martínez A, Galassi DMP, Fiasca B, Di Lorenzo T (2022). Effects of human-induced water level fluctuations on copepod assemblages of the littoral zone of Lake Maggiore. *HYDROBIOLOGIA*, vol. 849, p. 3545-3564, ISSN: 0018-8158, doi: <https://doi.org/10.1007/s10750-022-04960-3>
- 11) Di Lorenzo T, Fiasca B, Di Cicco M, **Cifoni M**, Galassi DMP (2021). Taxonomic and functional trait variation along a gradient of ammonium contamination in the hyporheic zone of a Mediterranean stream. *ECOLOGICAL INDICATORS*, vol. 132, p. 108268, doi: <https://doi.org/10.1016/j.ecolind.2021.108268>
- 10) **Cifoni M**, Boggero A., Galassi DMP, Di Lorenzo T (2021). An overview of studies on meiofaunal traits of the littoral zone of lakes. *WATER*, vol. 13, ISSN: 2073-4441, doi: 10.3390/w13040473. IF 3.103- Rank Q2
- 9) Di Lorenzo T, **Cifoni M**, Baratti M, Pieraccini G, Di Marzio WD, Galassi DMP (2021). Four scenarios of environmental risk of diclofenac in European groundwater ecosystems. *ENVIRONMENTAL POLLUTION*, vol. 287, ISSN: 0269-7491, doi: 10.1016/j.envpol.2021.117315, IF 8.071- Rank Q1
- 8) Di Lorenzo T, **Cifoni M**, Fiasca B, Di Cioccio A., Galassi DMP (2018). Ecological risk assessment of pesticide mixtures in the alluvial aquifers of central Italy: Toward more realistic scenarios for risk mitigation. *SCIENCE OF THE TOTAL ENVIRONMENT*, vol. 644, p. 161-172, ISSN: 0048-9697, doi: <https://doi.org/10.1016/j.scitotenv.2018.06.345>, IF 7.963- Rank Q1
- 7) Di Marzio WD, **Cifoni M**, Saenz ME, Galassi DMP, Di Lorenzo T (2018). The ecotoxicity of binary mixtures of Imazamox and ionized ammonia on freshwater copepods: Implications for environmental risk assessment in groundwater bodies. *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*, vol. 149, p. 72-79, ISSN: 0147-6513, doi: <https://doi.org/10.1016/j.ecoenv.2017.11.031>, IF 6.291- Rank Q1
- 6) **Cifoni M**, Galassi DMP, Faraloni C, Di Lorenzo T (2017). Test procedures for measuring the (sub)chronic effects of chemicals on the freshwater cyclopoid *Eucyclops serrulatus*. *CHEMOSPHERE*, vol. 173, p. 89-98, ISSN: 0045-6535, doi: 10.1016/j.chemosphere.2016.12.151, IF 7.086- Rank Q1
- 5) Di Lorenzo T, Melita M, **Cifoni M**, Galassi DMP, Iannucci A, Biricolti S, Gori M, Baratti M (2017). Effect of ammonia on the gene expression levels of the freshwater cyclopoid *Eucyclops serrulatus*. *ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY*, vol. 51, p. 138-141, ISSN: 1382-6689, doi: 10.1016/j.etap.2017.02.017, IF 4.860- Rank Q1
- 4) Di Lorenzo T, Cannicci S, Spigoli D, **Cifoni M**, Baratti M, Galassi DMP (2016). Bioenergetic cost of living in polluted freshwater bodies: respiration rates of the cyclopoid -4 -*Eucyclops serrulatus* under ammonia-N exposures. *FUNDAMENTAL AND APPLIED LIMNOLOGY*, vol. 188, p. 147-156, ISSN: 1863-9135, doi: 10.1127/fal/2016/0864, IF 1.148- Rank Q3
- 3) Di Lorenzo T, Di Marzio WD, **Cifoni M**, Fiasca B, Baratti M, Saenz WE, Galassi DMP (2015). Temperature effect on the sensitivity of the copepod *Eucyclops serrulatus* (Crustacea, Copepoda, Cyclopoida) to agricultural pollutants in the hyporheic zone. *CURRENT ZOOLOGY*, vol. 61, p. 629-640, ISSN: 1674-5507, IF 2.624- Rank Q1
- 2) Di Lorenzo T, Borgoni R, Ambrosini R, **Cifoni M**, Galassi DMP, Petitta M. (2015). Occurrence of volatile organic compounds in shallow alluvial aquifers of a Mediterranean region: baseline scenario and ecological implications. *SCIENCE OF THE TOTAL ENVIRONMENT*, vol. 538, p. 712-723, ISSN: 0048-9697, doi: 10.1016/j.scitotenv.2015.08.077, IF 7.963- Rank Q1
- 1) Di Lorenzo T, **Cifoni M**, Lombardo P, Fiasca B, Galassi DMP (2014). Ammonium threshold values for groundwater quality in the EU may not protect groundwater fauna: evidence from an alluvial aquifer in Italy. *HYDROBIOLOGIA*, vol. 743, p. 139-150, ISSN: 0018-8158, doi: 10.1007/s10750-014-2018-y, IF 2.694- Rank Q1

Data

30/04/2022

**Elenco delle pubblicazioni** presentate dal candidato Maurizio Muzzi per la partecipazione alla procedura pubblica di selezione a ricercatore universitario a tempo determinato per il settore concorsuale 05/B1 Zoologia e Antropologia, S.S.D. BIO/05 Zoologia presso il Dipartimento di Scienze, bando Prot. n. 0031850 del 04/04/2023.

1. Pubblicazione 01. Ruzzier, E., **Muzzi, M.**, Kadej, M., Battisti, A., & Di Giulio, A. (2022). *Trogoderma granarium* Everts, 1898 (Coleoptera: dermestidae) a model species to investigate hastisetae functional morphology. *The European Zoological Journal*, 89(1), 902-912. IF(2021): 1.699. (Q2)
2. Pubblicazione 02. **Muzzi, M.**, Mancini, E., Fratini, E., Cervelli, M., Gasperi, T., Mariottini, P., Persichini, T., Bologna, M. A., & Di Giulio, A. (2022). Male Accessory Glands of Blister Beetles and Cantharidin Release: A Comparative Ultrastructural Analysis. *Insects*, 13(2), 132. IF(2021): 3.139. (Q1)
3. Pubblicazione 03. Fratini, E., Salvemini, M., Lombardo, F., **Muzzi, M.**, Molfini, M., Gisondi, S., Roma, E., D'Ezio, V., Persichini, T., Gasperi, T., Mariottini, P., Di Giulio, A., Bologna, M. A., Cervelli, M., & Mancini, E. (2021). Unraveling the role of male reproductive tract and haemolymph in cantharidin-exuding *Lydus trimaculatus* and *Mylabris variabilis* (Coleoptera: Meloidae): a comparative transcriptomics approach. *BMC genomics*, 22(1), 1-24. IF(2021): 4.547. (Q1)
4. Pubblicazione 04. **Muzzi, M.**, Di Giulio, A., Mancini, E., Fratini, E., Cervelli, M., Gasperi, T., Mariottini, P., Persichini, T., & Bologna, M. A. (2020). The male reproductive accessory glands of the blister beetle *Meloe proscarabaeus* Linnaeus, 1758 (Coleoptera: Meloidae): Anatomy and ultrastructure of the cantharidin-storing organs. *Arthropod Structure & Development*, 59, 100980. IF(2020): 2.010. (Q1)
5. Pubblicazione 05. Merivee, E., Must, A., Nurme, K., Di Giulio, A., **Muzzi, M.**, Williams, I., & Mänd, M. (2020). Neural code for ambient heat detection in elaterid beetles. *Frontiers in Behavioral Neuroscience*, 14. IF(2020): 3.558. (Q1)
6. Pubblicazione 06. **Muzzi, M.**, & Di Giulio, A. (2019). The ant nest “bomber”: Explosive defensive system of the flanged bombardier beetle *Paussus favieri* (Coleoptera, Carabidae). *Arthropod structure & development*, 50, 24-42. IF(2019): 1.836. (Q1)
7. Pubblicazione 07. **Muzzi, M.**, Moore, W., & Di Giulio, A. (2019). Morpho-functional analysis of the explosive defensive system of basal bombardier beetles (Carabidae: Paussinae: Metriini). *Micron*, 119, 24-38. IF(2019): 1.726. (Q2)
8. Pubblicazione 08. Nurme, K., Merivee, E., Must, A., Di Giulio, A., **Muzzi, M.**, Williams, I., & Mänd, M. (2018). Bursty spike trains of antennal thermo-and bimodal hygro-thermoreceptor neurons encode noxious heat in elaterid beetles. *Journal of thermal biology*, 72, 101-117. IF(2018): 1.902. (Q1)
9. Pubblicazione 09. Di Giulio, A., & **Muzzi, M.** (2018). Two novel approaches to study arthropod anatomy by using dualbeam FIB/SEM. *Micron*, 106, 21-26. IF(2018): 1.530. (Q3)
10. Pubblicazione 10. Must, A., Merivee, E., Nurme, K., Sibul, I., **Muzzi, M.**, Di Giulio, A., Williams, I., & Tooming, E. (2017). Encoding noxious heat by spike bursts of antennal bimodal hygroreceptor (dry) neurons in the carabid *Pterostichus oblongopunctatus*. *Cell and tissue research*, 368(1), 29-46. IF(2017): 3.043 (Q1)

11. Pubblicazione 11. Di Giulio, A., **Muzzi, M.**, & Romani, R. (2015). Functional anatomy of the explosive defensive system of bombardier beetles (Coleoptera, Carabidae, Brachininae). *Arthropod structure & development*, 44(5), 468-490. IF(2015): 1.563. (Q1)

12. Pubblicazione 12. Nurme, K., Merivee, E., Must, A., Sibul, I., **Muzzi, M.**, Di Giulio, A., Williams, I., & Tooming, E. (2015). Responses of the antennal bimodal hygroreceptor neurons to innocuous and noxious high temperatures in the carabid beetle, *Pterostichus oblongopunctatus*. *Journal of insect physiology*, 81, 1-13. IF(2015): 2.267. (Q1)

- Tesi di dottorato: Study on the evolution of explosive defensive systems in Coleoptera through functional anatomy and ultrastructure.

## Twelve most important and/or most cited publications

1. Nazari V, Zakharov EV, Sperling FAH, 2007. Phylogeny and historical biogeography of Parnassiinae (Lepidoptera: Papilionidae) based on morphology and seven genes. *Molecular Phylogenetics and Evolution* 42: 131-156.
2. Landry JF, Nazari V, DeWaard JR, Mutanen M, Lopez-Vaamonde C, Huemer P, Hebert PDN, 2013. Shared but overlooked: 30 species of Holarctic Microlepidoptera revealed by DNA barcodes and morphology. *Zootaxa* 3749 (1): 001-093.
3. Pohl GR, Landry JF, Schmidt BC, Lafontaine JD, Troubridge JT, Macaulay AD, van Nieukerken E, deWaard JR, Dombroskie JJ, Klymko J, Nazari V, Stead K, 2018. Annotated checklist of the moths and butterflies (Lepidoptera) of Canada and Alaska. *Pensoft Series Faunistica* #118. 580p.
4. Nazari V, Sperling FAH, 2007. Mitochondrial DNA variability and phylogeography in western Palaearctic Parnassiinae (Lepidoptera: Papilionidae): How many species are there? *Insect Systematics and Evolution* 38(2): 121-138.
5. Wilson JJ, Landry JF, Janzen DH, Hallwachs W, Nazari V, Hajibabaei M, Hebert PDN, 2010. Identity of the ailanthus webworm moth (Lepidoptera, Yponomeutidae), a complex of two species: evidence from DNA barcoding, morphology and ecology. *ZooKeys* 46: 41-60.
6. Nazari V, Larsen TB, Lees DC, Brattström O, Bouyer T, Van de Poel G, Hebert PDN, 2011. Phylogenetic systematics of *Colotis* and associated genera (Lepidoptera: Pieridae): evolutionary and taxonomic implications. *Journal of Zoological Systematics and Evolutionary Research* 49(3): 204-215.
7. Nazari V, ten Hagen W, Bozano G, 2009. Molecular systematics and phylogeny of the 'marbled whites' (Lepidoptera: Nymphalidae, Satyrinae, *Melanargia* Meigen). *Systematic Entomology* 35(1): 132-147.
8. Nazari V, 2014. Chasing Butterflies in Medieval Europe. *Journal of the Lepidopterists' Society* 68(4): 223-231.
9. Nazari V, Evans L, 2015. Butterflies of Ancient Egypt. *Journal of the Lepidopterists' Society* 69(4): 242-267.
10. Nazari V, Yanega D, 2017. Rules for new species from live specimens. *Nature* 546: 210.
11. Rajaei et al 2023. Catalogue of the Lepidoptera of Iran. - In: Rajaei H, Karsholt O (eds.): *Lepidoptera Iranica*. - *Integrative Systematics* 6 (Special Issue): 121-459.

12. Rajaei H, Karsholt O, Hofmann A, Nazari V, Ulmer JM, Wanke D, Zahiri R (2023) A historical review of lepidopterology in Iran. In: Rajaei, H & Karsholt, O (eds.): *Lepidoptera Iranica*. - Integrative Systematics 6 (Special Issue): 19-62.

TESI DI DOTTORATO: Nazari V, 2011. Application of DNA Barcoding in Lepidoptera Systematics. PhD Thesis, University of Guelph.



## ELENCO DELLE PUBBLICAZIONI E DELLA TESI DI DOTTORATO

Tesi:

“Geographic variation, allometry, and sexual dimorphism explored in the skull of the wide-ranging *Lutra lutra*. A 3D geometric morphometric approach”

Pubblicazioni:

- 1)Pontieri, F.; Russo, L.F.\*.; Raia, P.; Loy, A. A Surprising Pattern of Sexual Dimorphism in the Eurasian Otter (*Lutra lutra*) in Sweden. *Hystrix - Ital. J. Mammal.*
- 2)Russo, L. F., Fernández-González, Á., Penteriani, V., Delgado, M. D. M., Palazón, S., Loy, A., & Di Febbraro, M. (2023). The Different Fate of the Pyrenean Desman (*Galemys pyrenaicus*) and the Eurasian Otter (*Lutra lutra*) under Climate and Land Use Changes. *Animals*, 13(2), 274.
- 3)Russo, L. F., Meloro, C., De Silvestri, M., Chadwick, E. A., & Loy, A. (2022). Better sturdy or slender? Eurasian otter skull plasticity in response to feeding ecology. *Plos one*, 17(9), e0274893.
- 4)Basile, M., Russo, L. F., Russo, V. G., Senese, A., & Bernardo, N. (2021). Birds seen and not seen during the COVID-19 pandemic: The impact of lockdown measures on citizen science bird observations. *Biological conservation*, 256, 109079.
- 5)Mazzamuto, M. V., Su, H. J., Guidarelli, G., Preatoni, D., Russo, L. F., Loy, A., & Martinoli, A. (2021). Mandible morphology as a tool to investigate origin, adaptation and stress in invasive alien species: first insights into *Callosciurus erythraeus* (Rodentia: Sciuridae) in Europe. *The European Zoological Journal*, 88(1), 782-795.
- 6)Russo, L. F\*, & Loy, A. (2020). Who am I? Testing I3S Contour on the facial mask of the Western polecat (*Mustela putorius*). *Hystrix, the Italian Journal of Mammalogy*, 31(1), 83-85.
- 7)Russo, L. F., Barrientos, R., Fabrizio, M., Di Febbraro, M., & Loy, A. (2020). Prioritizing road-kill mitigation areas: A spatially explicit national-scale model for an elusive carnivore. *Diversity and Distributions*, 26(9), 1093-1103.
- 8)González-Bernardo, E., Russo, L. F., Valderrábano, E., Fernández, Á., Penteriani, V.(2020). Denning in brown bears. *Ecology and Evolution*.
- 9) Brown bear attacks on humans: a worldwide perspective G. Bombieri ¶ Russo L.F., et al., 2019
- 10)Penteriani V., Bombieri G., Fedriani J.M., López-Bao, J.V., Garrote P.J., Russo L.F. and Delgado M.M. 2017. Humans as prey: coping with large carnivore attacks using a predator-prey interaction perspective. *Human-Wildlife Interactions*
- 11) Bombieri G., Delgado M.M., Russo L.F., Garrote P.J., López-Bao J.V., Fedriani J.M. and Penteriani V. 2018. Patterns of wild carnivore attacks on humans in urban areas. *Scientific Reports*
- 12) Zarzo-Arias A., Delgado M., Ordiz A., Díaz García J., Cañedo D., González M.A., Romo C., Vázquez García P., Bombieri G., Bettega C., Francesco Russo L., Cabral P., García González R., Martínez-Padilla J. and Penteriani V. 2018. Brown bear behaviour in human-modified landscapes: the case of the endangered Cantabrian population, NW Spain. *Global Ecology and Conservation*

## ELENCO DELLE PUBBLICAZIONI E DELLA TESI DI DOTTORATO

1. Todisco V., Vodă R., Prosser P., Nazari V. 2020. Next Generation Sequencing-aided comprehensive geographic coverage sheds light on the status of rare and extinct populations of *Aporia* butterflies (Lepidoptera: Pieridae). *Scientific Reports*, 10:13970.
2. Todisco V., Grill A., Fiedler K., Gottsberger B., Dincă V., Vodă R., Lukhtanov V., Letsch H. 2018. Molecular phylogeny of the Palearctic butterfly genus *Pseudophilotes* (Lepidoptera: Lycaenidae) with focus on the Sardinian endemic *P. barbagiae*. *BMC Zoology* 3(4). DOI: 10.1186/s40850-018-0032-7
3. Todisco V., Nazari V., Cesaroni D., Sbordoni V. 2017. Preliminary molecular phylogeny and biogeography of the monobasic subfamily Calinaginae (Lepidoptera, Nymphalidae). *Zoosystematics and Evolution* 93 (2) 2017, 255–264.
4. Todisco V., Fiedler K., Puliga E., Dinca V., Voda R., Grill A. 2015. The origin of the Sardinian Blue, *Pseudophilotes barbagiae* (Lepidoptera, Lycaenidae): Out-of-Europe or Out-of-African? In: Scientific abstracts from the 6th International Barcode of Life Conference. *Genome* 58(5): 288. DOI: iii, 10.1139/gen-2015-0095
5. Todisco V., Gratton P., Wheat C., Zakharov E., Sbordoni V., Sperling F. 2012. Mitochondrial phylogeography of the Holarctic *Parnassius phoebus* complex supports a recent refugial model for alpine butterflies. *Journal of Biogeography*, 39 (6): 1058-1072. doi:10.1111/j.1365-2699.2011.02675.x
6. Todisco V., Gratton P., Cesaroni D., Sbordoni V. 2010. Phylogeography of *Parnassius apollo*: hints on taxonomy and conservation of a vulnerable glacial butterfly invader. *Biological Journal of the Linnean Society* 101: 169–183. doi: 10.1111/j.1095-8312.2010.01476.x
7. Allegrucci G., Rampini M., Gratton P., Todisco V., Sbordoni V. 2009. Testing phylogenetic hypotheses for reconstructing the evolutionary history of *Dolichopoda* cave crickets in the eastern Mediterranean. *Journal of Biogeography* 36: 1785-1797. doi: 10.1111/j.1365-2699.2009.02130.x
8. Allegrucci G., Carchini G., Todisco V., Convey P., Sbordoni V. 2006. A molecular phylogeny of antarctic Chironomidae and its implications for biogeographical history. *Polar Biology* 29 (4): 320-326. doi:10.1007/s00300-005-0056-7
9. Allegrucci G., Todisco V. and Sbordoni V. 2005. Molecular phylogeography of *Dolichopoda* cave crickets (Orthoptera, Rhaphidophoridae): A scenario suggested by mitochondrial DNA. *Molecular Phylogenetics and Evolution* 37: 153-164. doi:10.1016/j.ympev.2005.04.022
10. Allegrucci G., Todisco V., Sbordoni V., Carchini G. 2005. Progress in molecular phylogeny of Antarctic Chironomidae. In: P. Luperini and M. Morbidoni (eds.), “Proceedings of the fifth PNRA meeting on Antarctic Biology” 29-30 April 2004, Messina. *Polarnet Technical Report*, 1(2005): 58-62
11. Sbordoni V., Allegrucci G., Todisco V. 2004. Il genere *Dolichopoda* in Sardegna: filogenesi molecolare e ipotesi sulla evoluzione del popolamento. *Studi Trentini di Scienze Naturali, Acta Biologica* 81: 103-111. ISSN 0392-0542

TESI DI DOTTORATO: Todisco V. 2008. Filogeografia in *Parnassius apollo*, Linnaeus, 1758 (Lepidoptera, Papilionidae).

# CURRICULUM VITAE ET STUDIORUM

**Paride Balzani**

## PROFESSIONAL EXPERIENCE

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- |                    |  |
|--------------------|--|
| 01/04/2022-ongoing | Postdoc at the Faculty of Fisheries and Protection of Waters,<br>University of South Bohemia in České Budějovice   |
| 2021               | University assistant as tutor for B.Sc. and M.Sc. students of Natural<br>Sciences<br>University of Florence, Italy |
| 2017-2018          | University assistant as tutor for B.Sc. and M.Sc. students of Natural<br>Sciences<br>University of Florence, Italy |

## RESEARCH ACTIVITY ABROAD

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- |                       |  |
|-----------------------|--|
| 22/02/2023-28/02/2023 | Research stay at the Senckenberg Research Institute and Nature Museum<br>in Gelnhausen (Germany) |
| 20/06/2022-16/07/2022 | Research stay at the Senckenberg Research Institute and Nature Museum<br>in Gelnhausen (Germany) |

## EDUCATION

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- |            |  |
|------------|--|
| 31/05/2022 | <b>PhD in Evolutionary Biology and Ecology</b><br><b>Curriculum of Ecology and Ethology</b><br>Universities of Parma, Florence, and Ferrara, Italy<br>Thesis title: Analysis of introduced and autochthonous populations<br>of the red wood ant <i>Formica paralugubris</i> : ecological<br>interactions and conservation issues.<br>Supervisor: Prof. Giacomo Santini |
| 18/04/2018 | <b>Master degree in Sciences of Nature and Man,</b><br><b>Curriculum of Nature Conservation and Management</b>   |

University of Florence, Italy

Thesis title: Analysis of the trophic niche of *Formica paralugubris* (Hymenoptera: Formicidae) by means of stable isotopes: a comparison among native and introduced populations

Supervisor: Prof. Giacomo Santini

Mark: 110/110 cum laude

28/04/2015

**Bachelor degree in Natural Sciences**

University of Florence, Italy

Thesis title: Comparing trophic niches between *Emys orbicularis* and *Trachemys scripta* using carbon and nitrogen stable isotopes analysis

Supervisor: Prof. Guido Chelazzi

Mark: 110/110 cum laude

07/07/2010

**High School Diploma in Scientific studies**

Liceo Scientifico Benedetto Varchi, Montevarchi, 52025, Italy

Mark: 84/100

**COURSES ATTENDED**

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2021

**Summer School: A primer in ecological networks. Data and theory (3 ECTS)**

University of Parma

Prof. Antonio Bodini

2021

**Stable Isotope Mixing Models Using SIBER, SIAR, MixSIAR**

Prof. Andrew Jackson (Trinity College, University of Dublin),

Prof. Andrew Parnell (Maynooth University)

2020

**Ecological statistics with R (3 ECTS)**

University of Parma

Prof. Raul Primicerio (University of Tromsø)

2019-2020

**Quantitative ecology module (28 ECTS)**

University of South Bohemia

Prof. Jan Lepš, Prof. Petr Smilauer

2019

**Introduction to Bayesian statistics applied to ecology and evolution (10 ECTS)**

University of Pavia

Prof. Achaz von Hardenberg (University of Chester)

- 2018                      **Training course for the acquisition of basic skills in anthropo-psycho-pedagogical disciplines and in teaching methodologies and technologies (24 ECTS)**  
University of Florence
- 2016                      **Summer School: Tropical rainforest biodiversity: field and GIS tools for assessing, monitoring and mapping (5 ECTS)**  
Udzungwa Mountains National Park, Tanzania  
Dr. Francesco Rovero (Science Museum of Trento, MUSE)  
Prof. Marco Ciolli (University of Trento, Italy)  
Prof. Nikolaj Scharff, Prof. Thomas Pape (Danish Natural History Museum and University of Copenhagen, Denmark)

## **PRIZES AND AWARDS**

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Prize for on-time graduation in Natural Sciences, University of Florence (2019)

## **TEACHING**

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- Seminar “The importance of trophic relationships in freshwater ecosystems” at the University of South Bohemia in České Budějovice for the students from the University of Duisburg-Essen, Germany (15/08/2022, 3 hours)
- Lecture “Use of stable isotopes in ecology” for the “Human Ecology” class of the M.Sc. course in Sciences of Nature and Man, Curriculum in Anthropological Sciences (LM60) at the University of Florence (Italy) (13/05/2022, 2 hours)
- Lecturer for the first module of the course “Elements of Genetics” (BSCI 30156 900) at the Kent State University in Florence (January-February 2022)
- Field laboratory on “Fresh waters monitoring and sampling of aquatic macroinvertebrates for the calculation of IBE” and on “Insects sampling in agro-ecosystems” for the “Environmental Biomonitoring” class of the M.Sc. course in Environmental and Behavioural Biology (LM6) at the University of Florence (Italy) (2021, 6 hours)
- Lecture “Stable isotopes in ecology” for the “Ecology with laboratory” class of the B.Sc. course in Biological Sciences (L13) at the University of Florence (Italy) (2019, 2 hours)

## **SUPERVISING AND MENTORING**

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- Co-supervisor of the M.Sc. thesis: “Ecology and distribution of ants of the *Formica rufa* group” in “Sciences of Nature and Man” at the University of Florence (thesis defense planned for 2023)

Co-supervisor of the II level University Master Course thesis: “Zoonotic risks associated with the raccoons (*Procyon lotor*): a literature review” in “Medical management and forensic pathology of wild animals” at the University of Parma (thesis defended in 2023)

Co-supervisor of the B.Sc. thesis: “Analysis of ant communities (Hymenoptera: Formicidae) along an altitudinal gradient” in “Biological Sciences” at the University of Florence (thesis defended in 2022)

Co-supervisor of the B.Sc. thesis: “Ecological analysis of ant communities (Hymenoptera: Formicidae) along an altitudinal gradient” in “Biological Sciences” at the University of Florence (thesis defended in 2021)

Co-supervisor of the B.Sc. thesis: “Experimental evaluation of the predatory activity of the ant *Crematogaster scutellaris* (Hymenoptera: Formicidae) on nymphs of *Philaenus spumarius* (Hemiptera: Aphrophoridae)” in “Biological Sciences” at the University of Florence (thesis defended in 2021)

Co-supervisor of the M.Sc. thesis: “Heavy metals analysis in the Florentine Arno fish community” in Science and Management of Faunistic and Environmental Resources at the University of Florence (thesis defended in 2019)

Consultant for the B.Sc. thesis: “Determination of food sources from isotopic gas analysis” in Natural Sciences at the University of Florence (thesis defended in 2019)

## **PUBLICATIONS IN IMPACTED JOURNALS**

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**Balzani, P.**, Nencioni, A., Grillini, M., Masoni, A., Zuri, F., Picchi, M. S., Frizzi, F., Sacchetti, P., Cantini, C., Santini, G. 2023. Spittlebug invisibility cloak: Experimental tests on the antipredatory effect of the froth of *Philaenus spumarius*. Bulletin of Insectology 76: 21-28. (IF 2021 = 1.562).

Frizzi, F., **Balzani, P.**, Frasconi Wendt, C., Masoni, A., Carta, E., Innocenti, M. R., Santini, G. 2023. Effects of starvation on the fighting ability of invasive and autochthonous ants. Entomological Science 26: e12531 (IF 2021 = 1.304).

Frizzi, F., **Balzani, P.**, Masoni, A., Frasconi Wendt, C., Marconi, M., Rossi, A., Santini, G. 2023. Sub-lethal doses of imidacloprid alter food selection in the invasive garden ant *Lasius neglectus*. Environmental Science and Pollution Research, 1-9. (IF 2021 = 5.190)

Le Hen, G., **Balzani, P.**, Haase, P., Kouba, A., Liu, C., Nagelkerke, L.A.J., Theissen, N., Renault, D., Soto, I., Haubrock, P.J., 2023. Alien species and climate change drive shifts in a riverine fish community and trait compositions over 35 years. Science of the Total Environment 867: 161486. (IF 2021 = 10.754)

Soto, I., Ahmed, D. A., **Balzani, P.**, Cuthbert, R. N., Haubrock, P.J. 2023. Sigmoidal curves

reflect impacts and dynamics of aquatic invasive species. *Science of The Total Environment* 872: 161818. (IF 2021 = 10.754)

Westrelin, S., **Balzani, P.**, Haubrock, P. J., Santoul, F. 2023. Interannual variability in the trophic niche of young-of-year fish belonging to four piscivorous species coexisting in a natural lake. *Freshwater Biology* 68: 487–501 (IF 2021 = 3.538).

Angulo, E., Hoffmann, B.D., Ballesteros-Mejia, L., Taheri, A., **Balzani, P.**, Bang, A., Renault, D., Cordonnier, M., Bellard, C., Diagne, C., Ahmed, D.A., Watari, Y., Courchamp, F., 2022. Economic costs of invasive alien ants worldwide. *Biological Invasions* 24: 2041–2060. (IF 2021 = 3.605)

**Balzani, P.**, Haubrock, P.J., 2022. Expanding the invasion toolbox: including stable isotope analysis in risk assessment. *NeoBiota* 76: 191-210. (IF 2021 = 4.225)

**Balzani, P.**, Frizzi, F., Masoni, A., Santini, G., 2022. The Effect of the Introduced Red Wood Ant *Formica paralugubris* on the Frequency of Ant Nests and First Plesiobiotic Association between *Myrmica ruginodis* (Nylander, 1846) and *Lasius flavus* (Fabricius, 1782). *Sociobiology* 69: e7901. (IF 2021 = 0.863)

**Balzani, P.**, Cuthbert, R.N., Briski, E., Galil, B., Castellanos-Galindo, G.A., Kouba, A., Kourantidou, M., Leung, B., Soto, I., Haubrock, P.J., 2022. Knowledge needs in economic costs of invasive species facilitated by canalisation. *NeoBiota* 78: 207–223. (IF 2021 = 4.225)

**Balzani, P.**, Dekoninck, W., Feldhaar, H., Freitag, A., Frizzi, F., Frouz, J., Masoni, A., Robinson, E., Sorvari, J., Santini, G., 2022. Challenges and a call to action for protecting European red wood ants. *Conservation Biology*: e13959. (IF 2021 = 7.563)

**Balzani, P.**, Galeotti, G., Scheggi, S., Masoni, A., Santini, G., Baracchi, D., 2022. Acute and chronic ingestion of polyethylene (PE) microplastics has mild effects on honey bee health and cognition. *Environmental Pollution* 305: 119318. (IF 2021 = 9.988)

**Balzani, P.**, Kourantidou, M., Kouba, A., Tricarico, E., Haubrock, P.J., 2022. Metal accumulation in relation to size and body condition in an all-alien species community *Environmental Science and Pollution Research* 29: 25848-25857 (IF 2021 = 5.190)

**Balzani, P.**, Masoni, A., Venturi, S., Frizzi, F., Bambi, M., Fani, R., Nisi, B., Tassi, F., Vaselli, O., Zaccaroni, M., Santini, G., 2022. CO<sub>2</sub> biogeochemical investigation and microbial characterization of red wood ant mounds in a Southern Europe montane forest. *Soil Biology and Biochemistry* 166: 108536 (IF 2021 = 8.546)

Di Nuzzo, L., Masoni, A., Frizzi, F., Bianchi, E., Castellani, M.B., **Balzani, P.**, Morandi, F., Sozzi, Y., Vallese, C., Santini, G., Benesperi, R., 2022. Red wood ants shape epiphytic lichen assemblages in montane white fir forests. *iForest – Biogeosciences and Forestry* 15: 71-76. (IF 2021 = 1.585)

Frizzi, F., Buonafede, L., Masoni, A., **Balzani, P.**, Santini, G., 2022. Comparative Analysis of



Facial Coloration between Introduced and Source Populations of the Red Wood Ant *Formica paralugubris*. *Insects* 13: 1137. (IF 2021 = 3.141)

Masoni, A., Coppi, A., **Balzani, P.**, Frizzi, F., Fani, R., Zaccaroni, M., Santini, G. 2022. Assessing Molecular Diversity in Native and Introduced Populations of Red Wood Ant *Formica paralugubris*. *Animals* 12: 3165. (IF 2021 = 3.031)

**Balzani, P.**, Haubrock, P.J., Russo, F., Kouba, A., Haase, P., Veselý, L., Masoni, A., Tricarico, E., 2021. Combining metal and stable isotope analyses to disentangle contaminant transfer in a freshwater community dominated by alien species. *Environmental Pollution* 268B: 115781. (IF 2020 = 8.071)

**Balzani, P.**, Vizzini, S., Frizzi, F., Masoni, A., Lessard, J.P., Bernasconi, C., Francoeur, A., Ibarra-Isassi, J., Brassard, F., Cherix, D., Santini, G., 2021. Plasticity in the trophic niche of an invasive ant explains establishment success and long-term coexistence. *Oikos* 130: 691-696. (IF 2020 = 3.903)

Bissattini, A.M., Haubrock, P.J., Buono, V., **Balzani, P.**, Borgianni, N., Stellati, L., Inghilesi, A.F., Tancioni, L., Martinoli, M., Tricarico, E., Vignoli, L., 2021. Trophic structure of a pond community dominated by an invasive alien species: Insights from stomach content and stable isotope analyses. *Aquatic Conservation: Marine and Freshwater Ecosystems* 31: 948-963. (IF 2020 = 2.771)

Frasconi Wendt, C., Frizzi, F., Aiello, G., **Balzani, P.**, Santini, G., 2021. Ant species but not trait diversity increases at the edges: insights from a micro-scale gradient in a semi-natural Mediterranean ecosystem. *Ecological Entomology* 46: 834-843. (IF 2020 = 2.465)

Haubrock, P.J., **Balzani, P.**, Matsuzaki, S.I.S., Tarkan, A.S., Kourantidou, M., Haase, P., 2021. Spatio-temporal niche plasticity of a freshwater invader as a harbinger of impact variability. *Science of The Total Environment* 777: 145947. (IF 2020 = 7.963)

Haubrock, P.J., **Balzani, P.**, Hundertmark, I., Cuthbert, R.N., 2021. Spatial and Size Variation in Dietary Niche of a Non-native Freshwater Fish. *Ichthyology & Herpetology* 109: 501-506. (IF 2020 = 1.220)

Haubrock, P.J., Copp, G.H., Johović, I., **Balzani, P.**, Inghilesi, A.F., Nocita, A., Tricarico, E., 2021. North American channel catfish, *Ictalurus punctatus*: a neglected but potentially invasive freshwater fish species?. *Biological Invasions* 23: 1563-1576. (IF 2020 = 3.133)

Mugnai, M., Wendt, C. F., **Balzani, P.**, Ferretti, G., Dal Cin, M., Masoni, A., Frizzi, F., Santini, G., Viciani, D., Foggi, B., & Lazzaro, L, 2021. Small-scale drivers on plant and ant diversity in a grassland habitat through a multifaceted approach. *PeerJ* 9: e12517. (IF 2020 = 2.98)

**Balzani, P.**, Gozlan, R.E., Haubrock, P.J., 2020. Overlapping niches between two co-occurring invasive fish: the topmouth gudgeon *Pseudorasbora parva* and the common bleak *Alburnus alburnus*. *Journal of Fish Biology* 97: 1385-1392. (IF 2019 = 1.495)

**Balzani, P.**, Venturi, S., Muzzicato, D., Tassi, F., Vaselli, O., Frizzi, F., Frasconi Wendt, C., Nisi, B., Masoni, A., Santini, G., 2020. Application of CO<sub>2</sub> carbon stable isotope analysis to

ant trophic ecology. *Entomologia Experimentalis et Applicata* 168: 940-947. (IF 2019 = 1.696)

Frizzi, F., Masoni, A., Migliorini, M., Fanciulli, P. P., Cianferoni, F., **Balzani, P.**, Giannotti, S., Davini, G., Frasconi Wendt, C., Santini, G., 2020. A comparative study of the fauna associated with nest mounds of native and introduced populations of the red wood ant *Formica paralugubris*. *European Journal of Soil Biology* 101: 103241. (IF 2019 = 2.285)

Frizzi, F., Masoni, A., **Balzani, P.**, Frasconi Wendt, C., Palchetti, V., Santini, G., 2020. Palatability of glyphosate in ants: a field experiment reveals broad acceptance of highly polluted solutions in a Mediterranean ant. *Environmental Science and Pollution Research* 27: 29666-29671. (IF 2019 = 3.056)

Haubrock, P.J., Azzini, M., **Balzani, P.**, Inghilesi, A.F., Tricarico, E., 2020. When alien catfish meet—Resource overlap between the North American *Ictalurus punctatus* and immature European *Silurus glanis* in the Arno River (Italy). *Ecology of Freshwater Fish* 29: 4-17. (IF 2019 = 1.950)

Haubrock, P.J., **Balzani, P.**, Britton, J.R., Haase, P., 2020. Using stable isotopes to analyse extinction risks and reintroduction opportunities of native species in invaded ecosystems. *Scientific reports* 10: 1-11. (IF 2019 = 3.998)

Haubrock, P., Cuthbert, R., Veselý, L., **Balzani, P.**, Baker, N., Dick, J., Kouba, A., 2020. Predatory functional responses under increasing temperatures of two life stages of an invasive gecko. *Scientific Reports* 10: 10119. (IF 2019 = 3.998)

Haubrock, P.J., **Balzani, P.**, Criado, A., Inghilesi, A.F., Tricarico, E., Monteoliva, A.P., 2019. Predicting the effects of reintroducing a native predator (European eel, *Anguilla anguilla*) into a freshwater community dominated by alien species using a multidisciplinary approach. *Management of Biological Invasions* 10: 171. (IF 2018 = 1.515)

Haubrock, P.J., **Balzani, P.**, Azzini, M., Inghilesi, A.F., Veselý, L., Guo, W., Tricarico, E., 2019. Shared histories of co-evolution may affect trophic interactions in a freshwater community dominated by alien species. *Frontiers in Ecology and Evolution* 7: 355. (IF 2018 = 2.686)

Stellati, L., Borgiaanni, N., Bissattini, A. M., Buono, V., Haubrock, P. J., **Balzani, P.**, Tricarico, E., Inghilesi, A.F., Tancioni, L., Martinoli, M., Luiselli, L., Vignoli, L., 2019. Living with aliens: suboptimal ecological condition in semiaquatic snakes inhabiting a hot spot of al biodiversity. *Acta Oecologica* 100: 103466. (IF 2018 = 1.478)

Haubrock, P.J., **Balzani, P.**, Johović, I., Inghilesi, A.F., Tricarico, E., 2018. The effects of two different preservation methods on morphological characteristics of the alien channel catfish *Ictalurus punctatus* (Rafinesque, 1818) in European freshwater. *Croatian Journal of Fisheries* 76: 80-84. (IF 2017 = 1.14)

Haubrock, P.J., **Balzani, P.**, Johovic, I., Inghilesi, A.F., Nocita, A., Tricarico, E., 2018. The diet of the alien channel catfish *Ictalurus punctatus* in the River Arno (Central Italy). *Aquatic Invasions* 13(4). (IF 2017 = 1.976)

**Balzani, P.**, Vizzini, S., Santini, G., Masoni, A., Ciofi, C., Ricevuto, E., Chelazzi, G., 2016. Stable isotope analysis of trophic niche in two co-occurring native and invasive terrapins, *Emys orbicularis* and *Trachemys scripta elegans*. Biological invasions 18: 3611-3621. (IF 2015 = 2.855)

## **PUBLICATIONS IN NON-IMPACTED JOURNALS**

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Haubrock, P.J., Fribbi, I., **Balzani, P.**, Johović, I., Baker, N.J., Inghilesi, A.F., Tricarico, E., Nocita, A., 2018. Age determination in the channel catfish *Ictalurus punctatus* using pectoral spines: a technical report. FiSHMED-Fishes in Mediterranean Environments 3: 1-13.

## **SCIENTIFIC PRODUCTION INDICES**

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GOOGLE SCHOLAR: H INDEX= 11, TOTAL CITATIONS = 372.

RESEARCHGATE: H INDEX= 11, TOTAL CITATIONS = 364.

SCOPUS: H INDEX= 10, TOTAL CITATIONS = 295.

WEB OF SCIENCE: H INDEX= 9, TOTAL CITATIONS = 254.

## **PEER-REVIEW ACTIVITY**

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Reviewer for the journals: Functional Ecology, Chemosphere, Copeia, Current Zoology, Diversity and Distribution, Entomologia Experimentalis et Applicata, Environmental Biology of Fishes, Frontiers in Ecology and Evolution, Hydrobiologia, Journal of Fish Biology, NeoBiota, PlosOne, Ecology of Freshwater Fish, Environmental Science and Pollution Research, Biological Invasions, Turkish Journal of Zoology.

## **EDITORIAL ACTIVITY**

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Subject Editor for the journal: Nature Conservation.

## **ORGANIZATION OF CONFERENCES**

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Organizer of the 23rd Symposium of the International Association of Astacology (IAA23), Hluboká nad Vltavou, Czechia (20-25/06/2022).

Organizer of the National meeting of the Italian Association for the Study of Social and Prosocial Arthropods (AISASP), Florence, Italy (04-05/07/2019).

## CONTRIBUTION TO CONFERENCES

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- Balzani, P.** et al. 2022. Economic costs of invasive species facilitated by canals and the Ponto-Caspianization of the European freshwater aquatic fauna. In: NEOBiota 2022, 12<sup>th</sup> International Conference on Biological Invasions: Biological Invasions in a Changing World. Tartu, Estonia, September 13-16, 2022, p. 145.
- Santini, G., Palchetti, V., **Balzani, P.**, Frizzi, F., Marucelli, F., Masoni, A., 2022. Do the urban heat island effect influences food choices in ants? In: S.It.E. (Italian Society of Ecology) 2022. Adaptation of Ecosystems to Anthropocene Pressures. Siena, Italy, September 13-15, 2022.
- Balzani, P.** et al. 2021. Trophic positioning of native and introduced populations of the invasive ant *Formica paralugubris*. In: 11.5th IsoEcol 2021 Conference on the Applications of Stable Isotope Techniques to Ecological Studies, online, May 19-21, 2021
- Mugnai et al. 2021. Relationships among vascular plants, mosses and lichens in grasslands communities along elevational gradients. In: 54th SISV Congress - Twenty years in the third millennium with Vegetation Science, online, September, 2021.
- Balzani, P.** et al. 2020. Combining metal and stable isotope analyses to disentangle contaminant transfer in a freshwater community dominated by alien species. In: NEOBiota 2020, 11<sup>th</sup> International Conference on Biological Invasions: The Human Role in Biological Invasions – a case of Dr Jekyll and Mr Hyde? Vodice, Croatia, September 15-18, 2020, p. 93.
- Balzani, P.** et al. 2019. Analysis of the trophic niche of *Formica paralugubris* (Hymenoptera: Formicidae) through the use of stable isotopes analysis: comparisons between autochthonous and introduced populations. In: AISASP, XVII National meeting, Firenze, July 04-05, 2019
- Benesperi, R. et al. 2019. Ants shape functional diversity and community assemblage of epiphytic lichens in montane *Abies alba* forests. In: 32<sup>th</sup> SLI Congress, Bologna, June 4-6, 2019.
- Benesperi, R. et al. 2019. Influence of ants on the floristic and functional diversity of epiphytic lichens in *Abies alba* montane forests. In: 2<sup>nd</sup> International Conference on Community Ecology, Bologna, September 18-20, 2019.
- Haubrock, P.J. et al. 2019. Predicting the effects of reintroducing a native predator (European eel, *Anguilla anguilla*) into a freshwater community dominated by alien species. In: Aquainvaded session of the ICAIS 2019 conference, 21<sup>th</sup> International Conference on Aquatic Invasive Species, Montreal (Canada), October 25-31, 2019.
- Haubrock, P.J. et al. 2018. Assessing the trophic structure of an alien dominated pond community in Central Italy through the combination of stomach content and stable isotope analyses. In: NEOBiota 2018, 10<sup>th</sup> International Conference on Biological Invasions, Dun Laoghaire (Ireland), September 3-7, 2018, p 67.
- Haubrock, P.J. et al. 2018. Impact and risk assessment of the alien North American channel catfish

*Ictalurus punctatus* in Central Italian freshwater ecosystems. In: NEOBIOTA 2018, 10<sup>th</sup> International Conference on Biological Invasions, Dun Laoghaire (Ireland), September 3-7, 2018, p 98.

Haubrock, P.J. et al. 2017. Assessing the impacts of the invasive Channel catfish *Ictalurus punctatus* in central Italy. In 20th International Conference of Aquatic Species. October. pp. 22-26.

## **FUNDING RECEIVED**

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Grant for a research project under the Transnational Access (TA) scheme of the Integrated European Long-Term Ecosystem, critical zone and socio-ecological Research (eLTER) network (Provider: eLTER; 2022)

Full scholarship support for three-years PhD study (Provider: University of Parma; 2018-2021)

## **PARTICIPATION AT PROJECTS**

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Participation at the project “Red wood ant ecology in the Foreste Casentinesi National Park”. The project, funded by the Foreste Casentinesi Falterona e Campigna National Park aims to monitor the populations of the endangered *Formica pratensis* and the introduced *Formica paralugubris*.

Participation at the project “Optimization of the management in carp ponds with 1-year production cycle in terms of co-feeding methods and mass balance”. The project, funded by the Ministry of Agriculture of the Czech Republic, aims to maximize the productivity of farmed carps and reduce their feed costs, while also reducing the input of phosphorus and nitrogen and, thus, the eutrophication risk of aquaculture ponds.

## **LANGUAGES**

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ITALIAN

MOTHER TONGUE

ENGLISH

WRITTEN: B2; SPOKEN: B2

## **PROFESSIONAL SKILLS**

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SAMPLING AND EXPERIMENTAL DESIGN ON DIFFERENT TAXA, FIELD AND LABORATORY WORK, STOMACH CONTENT ANALYSES, STABLE ISOTOPES ANALYSES, DATA ANALYSES

**JOB-RELATED SKILLS**

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EXCELLENT INTERPERSONAL AND COMMUNICATION SKILLS, EXCELLENT TEAM WORKING SKILLS, EXCELLENT NETWORKING SKILLS, HIGH WORKING INDEPENDENCE AND ORGANIZATIONAL AND MANAGEMENT SKILLS

**OTHER SKILLS**

---

COMPUTER

MICROSOFT OFFICE, R SOFTWARE

DRIVER LICENSE

B

SCUBA DIVING LICENSE

OPEN WATER

**INTERESTS**

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INVASIVE SPECIES, CONSERVATION, TROPHIC WEBS, COMMUNITY ECOLOGY, TAXONOMIC AND FUNCTIONAL DIVERSITY, STABLE ISOTOPES.



**Agustín Camacho Guerrero**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

**SCIENTIFIC CONTRIBUTIONS: Research line in Thermal Biology.** I invented and tested methods and theory to predict thermal restrictions on species' ecology, evolution, and geographic distribution. Also compiled field and literature data on thermal tolerance and species' thermal limits of geographic distribution for close to 1000 animal species. **Research line in Comparative Biology and Biogeography.** I created a new method of comparative geographic analysis, and discovered new relationships between morphology and range size in lizards. Besides, my personal fieldwork led to the description of over a dozen clades of reptiles and amphibians (including two new proposed families, Fouquet et al., under review) and four arthropods. **Communication:** 45 peer-reviewed scientific articles (34 with JCR). One book chapter. Talks at 15 local, 2 national, and 9 international events, and +12 coauthored posters. Average publishing rate of ~2.6 articles/year since first article, 3.25 in the last four years. **Impact:** 1025 citations across national and international journals. Citation indexes (H:19, i10: 26) increased by 6 (46%) and 9 (47%) points, respectively, in the last 5 years (17 years since first publication). **Funding:** ~400,000 € total. **Skills:** invention of methods and devices for measuring thermal tolerance. One year of fieldwork at 7 biomes/4 continents. Advanced R programming, use of supercomputing facilities, advanced statistics, mechanistic modeling of species' geographic range and environmental niche, and comparative phylogenetic methods. **Scientific responsibilities:** Management of 6 projects. **Collaborations:** 135 coauthors in journals (SCOPUS index). Direct collaborators from USA, Brazil, Spain, Mozambique, Israel, Australia and Germany. **Leadership :** 17 years of research experience abroad after graduation in Spain (2003-2020). All my salaries come from institutional-official selective processes with my own-designed projects (i.e., never hired by a researcher with a pre-approved salary). I am the first and corresponding author of 16 of my published articles. Last author of plus 2, and also corresponding in 2 studies first-authored by my students. Leader of scientific expeditions to the Brazilian Atlantic Rainforest and Caatinga, and the Arizona desert. Coordinator of one journal during Ph.D. Solo author of formal biothermal theory during Ph.D. Representative of Master's students, Ph.D. students, and Postdocs at research committees of two institutions. Co-creator of EBD seminars online. Organizer of two international symposia. English C2-certificate. **CONTRIBUTIONS TO SOCIETY. Technology development:** platform that maps and reports species' climatic vulnerability. **Innovation:** Co-creator of Summer School in Ecology. **Work for Public Entities:** Identification of conservation hotspots for Atlantic Rainforest (IBAMA). Official checklists for evaluating Honors projects (IB-USP). **Divuligation:** in School visits, panels, News websites, radio interviews and TV programs. **Societies:** Spanish Herpetological Association, Association for Tropical Biology & Conservation, Cordovan Society for Natural History. **MENTORING: Theses:** 4 honors +1 ongoing; 2 master +3 ongoing; 1 Ph.D. **Teaching:** Creator/teacher of 4 subjects in 3 idioms: Projects in Ecology, Phylogenetic Comparative Analysis in R, Scientific Writing, and Functional Biogeography, taught in Brazil, the USA, and Spain. ANECA certified as "Contratado Doctor". **Jurys:** 2 International Ph.D., 1 national MSc., 3 Honors. Alternate member in +3 national PhDs. **Editor** of 2 international journals. **Project reviewer:** for





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CURRÍCULUM VITAE NORMALIZADO

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National Science Foundation, IB-USP, IPBES, Cordoba's city hall, +35 articles for 25 journals.  
**Mentions:** 2 photography prizes, mention for master thesis's originality.

**Agustín Camacho Guerrero****Previous positions and activities**

	Employing entity	Professional category	Start date
1	Estación Biológica de Doñana	Investigador postdoctoral	01/06/2020
2	CAPEP: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior	Becario postdoctoral Programa Nacional Brasileiro de Post Doctorado	08/01/2018
3	FAPESP: Fundação de Amparo à Pesquisa do Estado de São Paulo	Becario Post Doctoral	01/12/2012
4	FAPESP	Becario post doctoral Beca de estudios en el extranjero	18/05/2015
5	Coordenação de aperfeiçoamento de pessoal de nível superior	Estudiante de doctorado	08/08/2008
6	Fundação de Amparo à Pesquisa do Estado da Bahia	Técnico de laboratório	06/11/2006
7	Coordenação de aperfeiçoamento de pessoal de nível superior	Estudante de Mestrado	04/04/2004
8	Agencia Española de Colaboración Internacional	Asistente de laboratorio	15/07/2002

- 1** **Employing entity:** Estación Biológica de Doñana **Type of entity:** State agency  
**Professional category:** Investigador postdoctoral  
**Start-End date:** 01/06/2020 - 31/07/2022 **Duration:** 2 years - 2 months

**Performed tasks:** Idea y diseño del proyecto, beneficiario, gestor e investigador. Escritura de los artículos científicos y de divulgación resultantes. Mentoría de estudiantes del programa Erasmus+. Creación de una plataforma web ([www.vulneraweb.com](http://www.vulneraweb.com)) desde la que es posible solicitar mapas de vulnerabilidad climática. Esta plataforma, además de usar sistemas de supercomputación para identificar y mapear la vulnerabilidad, postea noticias sobre vulnerabilidad climática de las especies y métodos para medir la tolerancia térmica. Por último dispone de un sistema de preguntas y respuestas para resolver dudas sobre la medición de la tolerancia térmica. Profesor de dos cursos impartidos para el gabinete de formación del CSIC: métodos comparativos filogenéticos en lenguaje R y Biogeografía Funcional. Coordinador del evento "Seminarios EBD".

**Applicability in teaching and/or research:** La plataforma web tiene el propósito de informar sobre la vulnerabilidad climática de las especies a entidades públicas y privadas que así lo soliciten. Sin embargo, los video tutoriales pueden ser usados en cursos de postgrado para dar clases sobre biología térmica. Los estudios realizados dentro del proyecto muestran nuevas y heterogeneas relaciones entre la tolerancia a altas temperaturas de especies de múltiples grupos animales y el límite más cálido de su distribución geográfica. Los resultados sugieren la necesidad de desarrollar métodos experimentales para estimar la tolerancia climática y nuevos procesos por los que la tolerancia térmica limita la distribución geográfica. <https://www.authorea.com/doi/full/10.22541/au.167785408.89632209/v1> Además, la segunda parte del estudio consistió en la creación de una ecuación que predice el tiempo de exposición capaz de provocar la muerte por altas temperaturas, en función de características tradicionalmente medidas en animales ectotérmicos (lagartos) tales como: las temperaturas preferidas, las temperaturas críticas máximas y la temperatura voluntaria máxima.

**2** **Employing entity:** CAPES: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior **Type of entity:** State agency

**Department:** Departamento de Fisiología, Instituto de Biociências, Universidad de São Paulo

**City employing entity:** São Paulo, Brazil

**Professional category:** Becario postdoctoral **Educational Management (Yes/No):** Yes  
Programa Nacional Brasileño de Post Doctorado

**Start-End date:** 08/01/2018 - 08/01/2020

**Duration:** 2 years

**Type of contract:** Grant-assisted student (pre or post-doctoral, others)

**Dedication regime:** Full time

**Primary (UNESCO code):** 240102 - Animal behaviour; 240106 - Animal ecology; 240116 - Herpetology; 240123 - Vertebrates; 240191 - Invertebrates not Insects; 240801 - Animal; 240803 - Insect; 241305 - Insect physiology

**Performed tasks:** Idea y diseño del proyecto, beneficiario, gestor e investigador. Escritura de los artículos científicos y de divulgación resultantes. Mentoría de estudiantes de graduación, máster y doctorado. Evaluaciones en campo de medidas de tolerancia comportamental (Temperaturas voluntarias máximas) como forma de identificar restricciones para el uso de hábitat y la distribución geográfica en lagartos. Desarrollo de métodos experimentales para la medida de las temperaturas voluntarias máximas en Anuros (Rana toro), Serpientes (Vipéridos sudamericanos), y hormigas jardineras. Escritura de artículos y proyectos de investigación. Orientación de alumnos de grado, maestría y doctorado. Creador/Profesor de Curso de Análisis Comparativo en lenguaje R. Co-Creador/Profesor de Curso de Escritura Científica. Profesor asistente en curso de discusión de proyectos en Fisiología.

**Identify key words:** Systematic zoology; Zoogeography; Animal physiology; Animal ethology; Risk assessment; Biodiversity characterisation

**Field of management activity:** University

**Applicability in teaching and/or research:** Mi proyecto define métodos experimentales para medir temperaturas voluntarias máximas de diversos grupos animales y usarlas para identificar donde estos animales pueden vivir, y sus periodos de actividad.

**3** **Employing entity:** FAPESP: Fundação de Amparo à Pesquisa do Estado de São Paulo **Type of entity:** Foundation

**Department:** Departamento de Zoología, Instituto de Biociências, Universidad de São Paulo

**City employing entity:** São Paulo, Brazil

**Professional category:** Becario Post Doctoral

**Educational Management (Yes/No):** Yes

**Start-End date:** 01/12/2012 - 01/12/2017

**Duration:** 5 years

**Type of contract:** Grant-assisted student (pre or post-doctoral, others)

**Primary (UNESCO code):** 240102 - Animal behaviour; 240106 - Animal ecology; 240113 - Animal physiology; 240114 - Animal Animal; 240115 - General zoology; 240116 - Herpetology; 240123 - Vertebrates; 240800 - Ethology

**Performed tasks:** Creación de sistema de modelaje masivo de la distribución de las especies. Diseño de técnicas estadísticas para lidar con incertezas en la taxonomía y la distribución de las especies en análisis comparativos del área de distribución. Análisis comparativo filogenético de los efectos de la morfología sobre la distribución geográfica de especies de reptiles en Australia y Brasil.

**Field of management activity:** University

**Applicability in teaching and/or research:** Las técnicas desarrolladas permiten identificar la distribución de cantidades ingentes de especies en todo el globo. Así mismo, permite llevar en cuenta la incerteza existente sobre su distribución y taxonomía.

**4 Employing entity:** FAPESP

**Department:** School of Life Sciences, Arizona State University

**City employing entity:** São Paulo, Brazil

**Professional category:** Becario post doctoral

**Educational Management (Yes/No):** Yes

Beca de estudios en el extranjero

**Start-End date:** 18/05/2015 - 17/05/2016

**Duration:** 1 year

**Type of contract:** Grant-assisted student (pre or post-doctoral, others)

**Dedication regime:** Full time

**Primary (UNESCO code):** 240102 - Animal behaviour; 240106 - Animal ecology; 240113 - Animal physiology; 240116 - Herpetology; 240123 - Vertebrates; 240800 - Ethology

**Performed tasks:** [https://bv.fapesp.br/en/pesquisa/buscador/?q2=\(id\\_pesquisador\\_exact%3A181762\)%20AND%20\(bolsa\\_exact:%22Bolsas%20no%20Exterior%22%20AND%20situacao:%22Conclu%C3%ADdos%22\)](https://bv.fapesp.br/en/pesquisa/buscador/?q2=(id_pesquisador_exact%3A181762)%20AND%20(bolsa_exact:%22Bolsas%20no%20Exterior%22%20AND%20situacao:%22Conclu%C3%ADdos%22)) Investigación: Desarrollé la medición de las temperaturas voluntarias máximas para identificar y monitorar estrés térmico en fauna. Publiqué resultados de investigación, y escribí proyectos para financiar investigación. Enseñanza: Diseñé el curso universitario de 45h: Functional Biogeography, co-impartido con el Dr. Ofir Levy.

**Field of management activity:** University

**Applicability in teaching and/or research:** Preparé y escribí este proyecto de manera autónoma para desarrollar una medida de tolerancia térmica más efectiva y humanitaria que las que existían hasta el momento.

**5 Employing entity:** Coordenação de aperfeiçoamento de pessoal de nível superior

**Type of entity:** State agency

**Professional category:** Estudante de doctorado

**Start-End date:** 08/08/2008 - 08/08/2012

**6 Employing entity:** Fundação de Amparo à Pesquisa do Estado da Bahia

**Type of entity:** State agency

**Professional category:** Técnico de laboratório

**Start-End date:** 06/11/2006 - 06/11/2007

**7 Employing entity:** Coordenação de aperfeiçoamento de pessoal de nível superior

**Type of entity:** University

**Professional category:** Estudante de Mestrado

**Start-End date:** 04/04/2004 - 04/10/2006

**Duration:** 2 years



**8** **Employing entity:** Agencia Española de Colaboración Internacional

**Type of entity:** State agency

**Department:** zoología, Insitituto de Biología. Universidade Federal da Bahia

**City employing entity:** Salvador, Brazil

**Professional category:** Asistente de laboratorio

**Start-End date:** 15/07/2002 - 15/10/2002

**Duration:** 3 months



## Education

### University education

#### 1st and 2nd cycle studies and pre-Bologna degrees

**University degree:** Higher degree

**Name of qualification:** Licenciado en Biología Especialidad Ambiental

**Degree awarding entity:** Universidad de Córdoba    **Type of entity:** University

**Date of qualification:** 12/02/2003

#### Doctorates

**Doctorate programme:** Pós graduação em Zoologia

**Degree awarding entity:** Instituto de Biociências. Universidade de São Paulo

**Date of degree:** 28/11/2012

#### Other postgraduate university studies

**Postgraduate qualification:** Master en Ecología y Monitorización de la Biodiversidad.

**Degree awarding entity:** Instituto de Biología.    **Type of entity:** University  
Universidade Federal da Bahia

**Date of qualification:** 06/10/2006

### Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1 Training title:** Curso de Bienestar Animal, función D  
**Awarding entity:** Centro de Estudios Biosanitarios    **Type of entity:** Business  
**End date:** 13/12/2021    **Duration in hours:** 30 hours
- 2 Training title:** Primeros auxilios en actividades peligrosas en trabajos de campo 3ª edición  
**Awarding entity:** Agencia Estatal Consejo Superior de Investigaciones Científicas  
**End date:** 17/11/2021    **Duration in hours:** 5 hours
- 3 Training title:** Curso de Bienestar Animal, funciones A,B,C  
**Awarding entity:** CSIC    **Type of entity:** Public Research Body  
**End date:** 30/04/2021    **Duration in hours:** 61 hours
- 4 Training title:** Formación nivel básico en prevención de riesgos laborales  
**Awarding entity:** Escuela de Seguridad de SGS    **Type of entity:** Business  
**End date:** 22/09/2020    **Duration in hours:** 56 hours



- 5 Training title:** Geostat: summer school of Spatial Statistics  
**Awarding entity:** Norwegian School of Economics  
**End date:** 22/07/2014 **Duration in hours:** 49 hours
- 6 Training title:** Intensive Short Course on Phylogenetic Statistics  
**Awarding entity:** University of Massachusetts **Type of entity:** University  
**End date:** 11/07/2014 **Duration in hours:** 35 hours
- 7 Training title:** Estimating and analyzing thermal sensitivity of ectotherms, and inferences for the biotic effects of climate change  
**Awarding entity:** Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)  
**End date:** 16/09/2013 **Duration in hours:** 45 hours
- 8 Training title:** Modelling potential geographic distribution  
**Awarding entity:** Instituto Nacional de Pesquisa Espaciais (INPE) **Type of entity:** Public Research Body  
**End date:** 02/09/2010 **Duration in hours:** 24 hours
- 9 Training title:** Curso de ArcGIS  
**Awarding entity:** Universidade Federal da Bahia  
**End date:** 15/09/2007 **Duration in hours:** 20 hours
- 10 Training title:** Curso de ecologia de campo da floresta amazônica  
**Awarding entity:** National Institute of Amazonian Research (INPA) **Type of entity:** Public Research Body  
**End date:** 07/09/2005 **Duration in hours:** 300 hours
- 11 Training title:** Curso de biologia reprodutiva de serpentes  
**Awarding entity:** Universidade Católica do Paraná **Type of entity:** University  
**End date:** 16/07/2004 **Duration in hours:** 15 hours
- 12 Training title:** Curso de serpentes e ofidismo  
**Awarding entity:** Federal University of Bahia  
**End date:** 20/03/2004 **Duration in hours:** 14 hours
- 13 Training title:** Curso de patología y manejo de vertebrados marinos  
**Awarding entity:** Universidad de Córdoba **Type of entity:** University  
**End date:** 28/04/2002 **Duration in hours:** 20 hours

### Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

- 1 Title of course/seminar:** Seminarios de preparação pedagógica  
**Organising entity:** Universidade de São Paulo  
**Faculty, institute or centre:** Faculdade de Educação  
**Duration in hours:** 15 hours  
**Start-End date:** 23/10/2008 - 24/10/2008



- 2 Title of course/seminar:** Curso de adaptación pedagógica  
**Goals of the course/seminar:** Prepare graduates for teaching in schools  
**Organising entity:** Universidad de Córdoba  
**Duration in hours:** 180 hours  
**End date:** 23/06/2003

## Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Spanish	C2	C2	C2	C2	C2
English	C2	C2	C2	C2	C2
Portuguese	C2	C2	C2	C2	C2

## Teaching experience

### Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Tolerância térmica e distribuição geográfica atual e futura de serpentes sul-americanas (Crotalinae: Bothrops e Bothrocophias): uma predição de respostas às mudanças climáticas  
**Entity:** Programa interunidades de pós-graduação em ecologia aplicada. Escola Superior de Agricultura Luiz de Queiroz-USP.  
**Type of entity:** University Centres and Structures and Associated Bodies  
**Student:** Juan Diaz' Uriarte  
**Date of reading:** 12/07/2022
- 2 Project title:** Efectos integrados del tamaño del cuerpo y sexo, y del estado reproductivo, sobre la dieta de Coleodactylus meridionalis (BOULENGER, 1888)  
**Entity:** Universidad de La Laguna  
**Type of entity:** University  
**Student:** Juan Castro Rivadeneyra  
**Obtained qualification:** 9  
**Identify key words:** Animal physiology; Animal ethology; Animal morphology  
**Date of award:** 08/09/2021
- 3 Project title:** Ecologia comportamental como determinante do quociente de encefalização em passeriformes  
**Entity:** Universidade Federal de São Carlos Centro de Ciências Biológicas e da Saúde Programa de Pós-Graduação em Ecologia e Recursos Naturais  
**Type of entity:** University  
**Student:** Abraão DeBarros Leite  
**Date of reading:** 28/08/2020
- 4 Project title:** Regulação da tolerância térmica de formigas cortadeiras  
**Entity:** Departamento de Fisiologia. Instituto de Biociências da Universidade de São Paulo/UNICID Universidade Cidade de São Paulo  
**Type of entity:** University  
**Student:** Cleverson De Sousa Lima  
**Date of reading:** 01/11/2019





- 5** **Project title:** Interacción del comportamiento y fisiología de anuros en respuesta al estrés térmico e hídrico: una aproximación de la comprensión de la vulnerabilidad de los anuros al cambio climático  
**Entity:** Universidade de São Paulo. Instituto de biociências. Departamento de Fisiologia  
**Student:** Estefany Caroline Guevara Molina  
**Date of reading:** 30/05/2019  
**Type of entity:** University
- 6** **Project title:** The effect of hydration state on voluntary maximum temperature of a desert reptile, *Heloderma suspectum*.  
**Entity:** Arizona State University  
**Student:** Callie Harston  
**Date of reading:** 23/03/2016
- 7** **Project title:** Evolução da capacidade de forrageio nos lagartos Gymnophthalmini  
**Entity:** Instituto de Biociências. Universidade de São Paulo  
**Student:** Yamanouchi, A. T. V.  
**Date of reading:** 30/06/2011  
**Type of entity:** University
- 8** **Project title:** Efecto de las condiciones microclimáticas en la distribución del género *Tentyria* (col. Tenebrionidae) en el Parque Nacional de Doñana  
**Entity:** Universidad de Córdoba  
**Student:** Judith González González  
**Type of entity:** University
- 9** **Project title:** Effects of temperature on the daily activity of ectothermic animals.  
**Entity:** Departamento de Fisiologia, Instituto de Biociências, Universidade de São Paulo  
**Student:** Maiara Moreira Macario  
**Type of entity:** University Department
- 10** **Project title:** Evaluación de la tolerancia térmica en insectos apterigotas  
**Entity:** Universidad de Córdoba  
**Student:** Jesús Trancoso Pina  
**Type of entity:** University
- 11** **Project title:** Evaluación del impacto del clima sobre la distribución de las especies de reptiles de Andalucía  
**Entity:** Universidad de Córdoba  
**Student:** Lucía Bermúdez Cintado  
**Type of entity:** University

## Student tutorials

- 1** **Name of the programme:** Orientación de Tesina/alumno interno  
**Entity:** Instituto de Biociências. Universidade de São Paulo  
**City of entity:** Brazil  
**Frequency of the activity:** 3  
**Number of tutored students:** 3  
**Type of entity:** University
- 2** **Name of the programme:** Orientación de alumnos internos de grado  
**Entity:** Instituto de Biologia. Universidade Federal da Bahia  
**City of entity:** Salvador, Brazil  
**Frequency of the activity:** 2  
**Number of tutored students:** 2



- 3** **Name of the programme:** Orientación de alumnos internos de grado  
**Entity:** Arizona State University **Type of entity:** University  
**Frequency of the activity:** 5  
**Number of tutored students:** 5

### Teaching experience in courses and seminars for university teacher training

- 1** **Type of event:** Curso  
**Name of the event:** Biogeografía Funcional (aula virtual)  
**Organising entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**Hours of teaching:** 30  
**Teaching date:** 30/03/2022
- 2** **Type of event:** Curso  
**Name of the event:** Métodos comparativos filogenéticos en r (aula virtual)  
**Organising entity:** Agencia estatal consejo superior de investigaciones científicas **Type of entity:** Public Research Body  
**Hours of teaching:** 45  
**Teaching date:** 08/06/2021
- 3** **Type of event:** Curso  
**Name of the event:** Curso: Estatística filogenética em linguagem R  
**City organizing entity:** São Paulo, Brazil  
**Organising entity:** Instituto de biociências. Universidade de São Paulo  
**Hours of teaching:** 45 **Teaching language:** Portuguese  
**Teaching date:** 07/08/2018
- 4** **Type of event:** Curso  
**Name of the event:** Curso: Functional Biogeography  
**Organising entity:** Arizona State University **Type of entity:** University  
**Target group profile:** Alumnos de grado/master/doctorado  
**Hours of teaching:** 35 **Teaching language:** English  
**Teaching date:** 11/02/2016  
**Corresponding author:** Yes
- 5** **Type of event:** Curso  
**Name of the event:** Curso: Estatística filogenética em linguagem R  
**City organizing entity:** São Paulo, Brazil  
**Organising entity:** Instituto de biociências. Universidade de São Paulo  
**Hours of teaching:** 30 **Teaching language:** Portuguese  
**Teaching date:** 11/05/2015
- 6** **Name of the event:** Ecofisiologia de Répteis e Anfíbios  
**Organising entity:** Instituto de biociências. Universidade de São Paulo  
**Hours of teaching:** 1  
**Teaching date:** 03/12/2013



- 7** **Type of event:** Seminar  
**Name of the event:** Ecofisiologia de Répteis e Anfíbios  
**Organising entity:** Instituto de biociências. Universidade de São Paulo  
**Hours of teaching:** 1  
**Teaching date:** 13/11/2011
- 8** **Type of event:** Seminar  
**Name of the event:** Projetos em fisiologia comparativa  
**Organising entity:** Instituto de Biociências. Universidade de São Paulo  
**Hours of teaching:** 4  
**Teaching date:** 06/07/2011
- 9** **Type of event:** Seminar  
**Name of the event:** Projetos em fisiologia comparativa  
**Organising entity:** Instituto de Biociências. Universidade de São Paulo  
**Hours of teaching:** 4  
**Teaching date:** 06/07/2010
- 10** **Type of event:** Seminar  
**Name of the event:** Métodos de campo para o estudo de anfíbios e répteis  
**Organising entity:** Instituto de Biociências. Universidade de São Paulo  
**Teaching date:** 03/03/2009
- 11** **Type of event:** Seminar  
**Name of the event:** Métodos de campo para o estudo de anfíbios e répteis  
**Organising entity:** Instituto de biociências. Universidade de São Paulo  
**Hours of teaching:** 4  
**Teaching date:** 12/04/2008
- 12** **Name of the event:** Evolução das asas e o voo em aves  
**Organising entity:** Universidade Federal da Bahia  
**Hours of teaching:** 4  
**Teaching date:** 04/03/2007
- 13** **Type of event:** Workshop  
**Name of the event:** Curso de ofidismo  
**Organising entity:** Universidade Federal da Bahia **Type of entity:** University  
**Hours of teaching:** 20  
**Teaching date:** 19/03/2004

## Scientific and technological experience

### Scientific or technological activities

#### R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Filogeografía comparada, filogenia, modelagem paleoclimática e taxonomia de répteis e anfíbios neotropicales

**Entity where project took place:** Instituto de Biociências. Universidad de São Paulo **Type of entity:** University Centres and Structures and Associated Bodies

**City of entity:** São Paulo, Brazil

**Name principal investigator (PI, Co-PI....):** Trefaut Rodrigues IP; Yonenaga Yassuda Co-IP

**Nº of researchers:** 2

**Start-End date:** 01/01/2012 - 30/11/2022

**Applicant's contribution:** Ecofisiólogo, analista de datos, asistente de campo, escritor de artículos e informes.
- 2** **Name of the project:** VULNERAWEB: A Web Platform for Forecasting Species Climatic Vulnerability

**Entity where project took place:** Estación Biológica de Doñana **Type of entity:** State agency

**City of entity:** Sevilla, Andalusia, Spain

**Nº of researchers:** 3

**Start-End date:** 01/06/2020 - 31/07/2022

**Total amount:** 160.000 €

**Applicant's contribution:** Diseño y ejecución del proyecto, mentoría de estudiantes, redacción de artículos resultantes e informes, gestión de los recursos económicos de investigación.
- 3** **Name of the project:** Evaluating different parameters of thermal tolerance used to produce forecasts of climatic vulnerability.

**Entity where project took place:** Universidade de São Paulo **Type of entity:** University Department

**City of entity:** São Paulo, SP, Brazil

**Name principal investigator (PI, Co-PI....):** Agustín Camacho Guerrero; Fernando Ribeiro Gomes

**Nº of researchers:** 2

**Type of participation:** Principal investigator

**Start-End date:** 12/01/2018 - 12/01/2020

**Total amount:** 14.808 €

**Applicant's contribution:** Diseño y ejecución del proyecto, mentoría de estudiantes, redacción de artículos resultantes e informes, gestión de los recursos económicos de investigación.
- 4** **Name of the project:** Ecogeographical consequences of evolution of the snake-like morphotype in squamates

**Entity where project took place:** Instituto de Biociências, Universidad de São Paulo

**City of entity:** São Paulo, Brazil

**Name principal investigator (PI, Co-PI....):** Agustín Camacho Guerrero; Rodrigues M. T.

**Nº of researchers:** 1

**Type of participation:** Principal investigator



**Start-End date:** 01/12/2012 - 06/12/2017

**Total amount:** 366.000 €

**Applicant's contribution:** Diseño y ejecución del proyecto, mentoría de estudiantes, redacción de artículos resultantes e informes, gestión de los recursos económicos de investigación.

- 5 Name of the project:** Filogeografía comparada, filogenia, modelagem paleoclimática e taxonomia de répteis e anfíbios neotropicais

**Entity where project took place:** Instituto de Biociências. Universidade de São Paulo

**City of entity:** São Paulo,

**Name principal investigator (PI, Co-PI....):** Rodrigues M. T.

**Type of participation:** Team member

**Start-End date:** 2012 - 2017

**Applicant's contribution:** Ecofisiólogo, analista de datos, asistente de campo, escritor de artículos e informes.

- 6 Name of the project:** Use of voluntary maximum temperatures for linking thermal physiology and species geographic range size

**Entity where project took place:** Arizona State University      **Type of entity:** University

**City of entity:** Tempe, Phoenix, United States of America

**Name principal investigator (PI, Co-PI....):** Agustín Camacho Guerrero; Michael Angilletta Jr; John Wiens; Miguel Trefaut Rodrigues; Ofir Levy

**Nº of researchers:** 5

**Type of participation:** Principal investigator

**Start-End date:** 18/05/2015 - 17/05/2016

**Total amount:** 65.550 €

**Applicant's contribution:** Evaluación de sistemas de medición de la temperatura voluntaria máxima en lagartos. Revisión de técnicas de medidas de tolerancia térmica en reptiles. Medición de la temperatura voluntaria máxima en tortugas de tierra. Estudio de la distribución y tolerancia térmica del lagarto de montaña : Sceloporus jarrovi.

- 7 Name of the project:** Investigating the impact of seismic surveys on threatened sea snakes in Australia's North West Shelf

**Entity where project took place:** Adelaide University      **Type of entity:** University

**City of entity:** Adelaide, Australia

**Name principal investigator (PI, Co-PI....):** Kate Sanders; Agustín Camacho Guerrero; Michael Guinea; Arne Rasmussen

**Nº of researchers:** 4

**Funding entity or bodies:**

na Australia and Pacific Science Foundation      **Type of entity:** Foundation

**Start-End date:** 2013 - 2015

**Total amount:** 24.300 €

**Applicant's contribution:** Co-redacción del proyecto Invención e implementación de sistema submarino de observación del comportamiento de serpientes marinas.

- 8 Name of the project:** Efeitos do aquecimento climático global sobre a fauna brasileira: uma abordagem de fisiologia da conservação.

**Entity where project took place:** Instituto de Biociências. Universidade de São Paulo

**City of entity:** São Paulo, Brazil

**Name principal investigator (PI, Co-PI....):** Navas A. C.

**Type of participation:** Team member



**Name of the programme:** Projeto temático PFPMCG/ PRONEX FAPESP 2008/57687-0.

**Start-End date:** 2009 - 2013

**9 Name of the project:** The evolution of fossoriality in gymnophthalmi lizards

**Entity where project took place:** Instituto de Biociências, Universidad de São Paulo **Type of entity:** University

**City of entity:** São Paulo, Brazil

**Name principal investigator (PI, Co-PI....):** Miguel Rodrigues Trefaut; Agustín Camacho Guerrero

**Nº of researchers:** 2

**Funding entity or bodies:**

Fundação de Amparo à Pesquisa do Estado de São Paulo **Type of entity:** Foundation

**City funding entity:** São Paulo, Brazil

**Type of participation:** Principal investigator

**Name of the programme:** Coordenação de Aperfeiçoamento de Pessoal de Nível Superior

**Code according to the funding entity:** CAPES

**Start-End date:** 30/09/2008 - 30/10/2011

**Total amount:** 21.000 €

**Applicant's contribution:** Diseño y ejecución del proyecto, mentoría de estudiantes, redacción de artículos resultantes e informes, gestión de los recursos económicos de investigación.

**10 Name of the project:** Aumento da produção científica do laboratório

**Entity where project took place:** Instituto de Biologia. Universidade Federal da Bahia **Type of entity:** University

**City of entity:** Salvador, Brazil

**Name principal investigator (PI, Co-PI....):** Camacho A. G.

**Type of participation:** Principal investigator

**Start-End date:** 2006 - 2007

**Applicant's contribution:** Coordinador de campo de inventario de fauna, escritor de artículos científicos, mentoría de estudiantes de graduación. Diseño y ejecución del proyecto, mentoría de estudiantes, redacción de artículos resultantes e informes.

**11 Name of the project:** Understanding the relationship of lizards with their habitats and microhabitats

**Entity where project took place:** Instituto de Biociências **Type of entity:** University

**City of entity:** Salvador, Brazil

**Name principal investigator (PI, Co-PI....):** Camacho A. G.; da Rocha, P. L. B.

**Type of participation:** Principal investigator

**Start-End date:** 2005 - 2006

**Dedication regime:** Full time

**Applicant's contribution:** Diseño y ejecución del proyecto, mentoría de estudiantes, redacción de artículos resultantes e informes, gestión de los recursos económicos de investigación.

**12 Name of the project:** Estágio para estudo de animais peçonhentos e lagartos

**Entity where project took place:** Universidade Federal de Bahia **Type of entity:** University

**City of entity:** Salvador, Brazil

**Name principal investigator (PI, Co-PI....):** Agustín Camacho Guerrero; Rejâne Lira Dasilva

**Nº of researchers:** 1

**Start-End date:** 17/07/2002 - 17/10/2002

**Applicant's contribution:** Manutenção e identificação de serpientes y artrópodos venenosos.



- 13** **Name of the project:** Atlantic Forest Dimensions of Biodiversity-<http://www.afbiota.org>  
**Entity where project took place:** National Science Foundation-Fundação Amparo a Pesquisa do Estado de São Paulo  
**Name principal investigator (PI, Co-PI....):** Miyaki C.; Carnaval A.  
**Funding entity or bodies:**  
CENTRO DE ACUSTICA APLICADA Y EVALUACION NO DESTRUCTIVA  
**Type of entity:** Associations and Groups  
**Type of participation:** Team member  
**Start date:** 2013  
**Applicant's contribution:** Autor de dos artículos científicos con datos generados por el proyecto.
- 14** **Name of the project:** Serpentes de Importância Médica do Nordeste  
**Geographical area:** Nacional brasileiro  
**Degree of contribution:** Current university student  
**Entity where project took place:** Instituto de Biologia. Universidade Federal da Bahia.  
**City of entity:** Savador, Brazil  
**Type of participation:** Team member  
**Start date:** 2003  
**Participating entity/entities:** Fundação Nacional da Saude/Ministério de Saude  
**Dedication regime:** Full time  
**Applicant's contribution:** Generación de banco de imágenes de serpientes, asistente de campo, manutenção de viperidos, instructor en curso de ofidismo.
- 15** **Name of the project:** Sistemática e evolução da herpetofauna neotropical (FAPESP 03/10335-8R)  
**Entity where project took place:** Instituto de Biociências. Universidade de São Paulo  
**City of entity:** São Paulo, Brazil  
**Name principal investigator (PI, Co-PI....):** Rodrigues M. T.  
**Type of participation:** Team member  
**Start date:** 2003  
**Applicant's contribution:** Ecofisiólogo, analista de datos, asistente de campo, escritor de artículos e informes.



## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** Delibes-Mateos, M.; Castro, F.; Arias, L.; Camacho, A.; Cooke, B.; Villafuerte, R.. Cooke's index: A simple, cost-effective method for multiple practitioners to estimate European rabbit abundance. *Ecological Indicators*. 150, Elsevier, 21/04/2023.

**Type of production:** Scientific paper **Format:** Journal

**Corresponding author:** No
- 2** Jorge Luís; Tejedo; Hoyos; Camacho; Bernal. The time course of acclimation of the critical thermal maximum is modulated by the magnitude of temperature change and thermal daily fluctuations *Journal of Thermal Biology*. Elsevier, 2023.

**Type of production:** Scientific paper **Format:** Journal

**Corresponding author:** No
- 3** Luís Gutierrez-Pesquera; Miguel Tejedo Madueño; Agustín Camacho; Urtzi Enriquez Urzelai; Marco Katzenberger; Choda; Pintanel; Nicieza. Phenology and plasticity can prevent adaptive clines in thermal tolerance across temperate mountains: The importance of the elevation-time axis. *Ecology & Evolution*. 12 - 10, wiley, 05/11/2022.

**Type of production:** Scientific paper **Format:** Journal

**Corresponding author:** No
- 4** Agustín Camacho; Carlos Navas; Adriana Tiemi Yamanouchi; Miguel Trefaut Rodrigues. Consequences of Evolving Limbless, Burrowing Forms for the Behavior and Population Density of Tropical Lizards. *Diversity*. 14 - 6, MDPI, 14/06/2022.

**Type of production:** Scientific paper **Format:** Journal

**Corresponding author:** Yes
- 5** Denise SelivonSheepmaker; André Luiz Perondini; Vicente Hernandez-Ortiz; Francisca Carolina doVal; Agustín Camacho; Fernando Ribeiro; Leandro Prezotto. Genetical, Morphological, Behavioral, and Ecological Traits Support the Existence of Three Brazilian Species of the *Anastrepha fraterculus* Complex of Cryptic Species. *Frontiers in Ecology and Evolution*. 10, Frontiers, 27/04/2022.

**Type of production:** Scientific paper **Format:** Journal

**Corresponding author:** No
- 6** A. Camacho; D. Peinazo. First report of bicephaly in the Iberian worm lizard (*Blanus* sp. *Vandelli* 1797). *Trianoi*. 2021.

**Type of production:** Scientific paper **Format:** Journal

**Corresponding author:** Yes
- 7** Cleverson Souza; André Frazão; Agustín Camacho. Leaf-cutting ants' critical and voluntary thermal limits show complex responses to size, heating rates, hydration level, and humidity. *Journal of Comparative Physiology B*. Springer, 2021.

**Type of production:** Scientific paper **Format:** Journal

**Corresponding author:** Yes





- 8** T 3; A 2; M 1. Shifts in space and time: ecological transitions affect the evolution of resting metabolic rates in microteiid lizards. *Journal of Experimental Biology. The Company of Biologists*, 2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 9** A Fabre; A Camacho; S Castroviejo-Fisher; M Rodrigues; A Réjaud; M Framit; K Leblanc; A Fouquet. Species diversity and biogeography of an ancient frog clade from the Guiana Shield (Anura: Microhylidae: Adelastes, Otophryne, Synapturanus) exhibiting spectacular phenotypic diversification. *Biological Journal of the Linnean Society*. 2021.  
**Type of production:** Scientific paper  
**Corresponding author:** No
- 10** J Guerrero-Casado; F. Bellido; M. S Mármol-Melendo; S. B. López-Guerrero; A. Llorca; M. Canós-Burguete; M. Torrijo-Salesa; A. Camacho. Update of the distribution of reptiles in Córdoba province: sampling priorities of species and places. *Trianoi. Sociedad Cordobesa de Historia Natural*, 2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 11** A Camacho; F Gomes; E Guevara-Molina. Effects of dehydration on thermoregulatory behavior and thermal tolerance limits of *Rana catesbeiana*. *Journal of Thermal Biology*. 2020.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 12** J Vacher; J Chave; K Sommeria; C Thébaud; S Tao; M Blank; F Ficetola; A Camacho; M Dewynter; A Fouquet. Large-scale DNA-based survey of frogs in Amazonia suggests a vast underestimation of species richness and endemism. *Journal of Biogeography. Wiley Online Library*, 2020.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 13** R Recoder 1; I Prates 2; S Marques-Souza 3; A Camacho 4; P Nunes 5; F Dal Vechio 6; M Rodrigues 7. Lizards from the Lost World: two new species and evolutionary relationships of the Pantepui highland *Riolama* (Gymnophthalmidae). *Zoological Journal of the Linnean Society*. 2020.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 14** J Wiens; A Camacho; A Goldberg; T Jezkova; M Kaplan; S Lambert; R Walls. Climate-change, extinction, and Sky Island biogeography in a montane lizard. *Molecular Ecology. Wiley Online Library*, 2019.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 15** S Marques-Souza; A Fouquet; A Camacho; P Kok; P Nunes; C Barrio Amorós; I Prates; M Rodrigues. Reconquering the water: Evolution and systematics of South and Central American aquatic lizards (Gymnophthalmidae). *Zoologica Scripta*. 2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 16** A Camacho; T Rusch; G Ray; R Telemeco; M Rodrigues; M Angilletta jr. Measuring behavioral thermal tolerance to address hot topics in ecology, evolution, and conservation. *Journal of Thermal Biology. Elsevier*, 2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes



- 17** A Camacho; J VandenBrooks; J Riley; R Telemeco; M Angilletta Jr. Oxygen supply did not affect how lizards responded to thermal stress. Integrative Zoology. Wiley Online Library, 2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 18** Renato Souza Recoder; Arnaldo Magalhaes Júnior; Hugo Bonfim de Arruda Pinto; Miguel Trefaut Rodrigues; Agustín Camacho Guerrero. Thermal constraints explain the distribution of the climate relict lizard *Colobosauroides carvalhoi* (Gymnophthalmidae) in the semiarid caatinga. South American Journal of Herpetology. Brazilian Society of Herpetology / BIO ONE, 2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 19** M Rodrigues; R. Recoder; M Teixeira; J Roscito; A. Camacho; P Nunes; M de Freitas; D Fernandes; A Bocchiglieri; F Dal Vechio; others. A morphological and molecular study of *Psilops*, a replacement name for? the Brazilian microteiid lizard genus *Psilophthalmus* Rodrigues 1991? (Squamata, Gymnophthalmidae), with the description of two new species. Zootaxa. 4286 - 4, pp. 451 - 482. 2017.  
**Type of production:** Scientific paper **Format:** Journal
- 20** Agustín Camacho Guerrero; Travis Rusch. Methods and pitfalls for measuring thermal tolerance in lizards. Journal of thermal biology. Elsevier, 2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 21** D Stuginski; C Navas; F Barros; A Camacho; F Bicudo; K Grego. Phylogenetic analysis of standard metabolic rate of snakes: a new proposal for the understanding of interspecific feeding behavior. Journal of comparative physiology. 2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 22** Agustín Camacho Guerrero; Renato Recoder; Mauro Teixeira; Miguel Rodrigues Trefaut; Tiana Kohlsdorf; Mike Lee. Overcoming phylogenetic and geographic uncertainties to test for correlates of range size evolution in gymnophthalmid lizards. Ecography. Ecography. 2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 23** Agustín Camacho; Miguel Trefaut Rodrigues; Carlos Navas. Extreme operative temperatures are better descriptors of the thermal environment than mean temperatures. Journal of thermal biology. 49 - 50, pp. 106 - 111. 2015. ISSN 0306-4565  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 24** Camacho A.; Pavão R.; Moreira C. N.; Pinto A. C. B.; Navas C. A.; Rodrigues M. T.. Interaction of morphology, thermal physiology and burrowing performance during the evolution of fossoriality in Gymnophthalmi lizards. Functional ecology. 29 - 4, pp. 515 - 521.. 2014.  
**DOI:** doi/10.1111/1365-2435.12355  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 25** Mauro Teixeira; Renato Sousa Recoder; Agustín Camacho; Marco Aurélio De Sena; Carlos Arturo Navas; Miguel Trefaut Rodrigues. A new species of *Bachia* Gray, 1845 (Squamata: Gymnophthalmidae) from the Eastern Brazilian Cerrado, and data on its ecology, physiology and behavior. Zootaxa. 3616, pp. 173 - 189. (New Zealand): 2013. ISSN 1175-5326  
**Type of production:** Scientific paper



- 26** Miguel Trefaut Rodrigues; Mauro Teixeira; Francisco Dal Vechio; Renata Cecília Amaro; Carolina Nisa; Agustín Camacho Guerrero; Roberta Damasceno; Juliana Gusson Roscito; Pedro M Sales Nunes; Renato Sousa Recoder. Rediscovery of the earless microteiid lizard *Anotosaura collaris* Amaral, 1933 (Squamata: Gymnophthalmidae): a redescription complemented by osteological, hemipenial, molecular, karyological, physiological and ecological data. *Zootaxa*. 3731, pp. 345 - 370. (New Zealand): 2013. ISSN 1175-5326  
**Type of production:** Scientific paper **Format:** Journal
- 27** Lee M. S.; Skinner A.; Camacho A.. The relationship between limb reduction, body elongation and geographical range in lizards (Lerista, Scincidae). *revista: Journal of Biogeography*,. *Journal of Biogeography*. 40 - 7, pp. 1290 - 1297. 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 28** Pedro Leite Ribeiro; Agustín Camacho; Carlos Arturo Navas. Considerations for assessing maximum critical temperatures in small ectothermic animals: insights from leaf-cutting ants. *PloS one*. 7 - 2, pp. e32083. 2012. ISSN 1932-6203  
**Type of production:** Scientific paper **Format:** Journal
- 29** Fouquet A.; Recoder R.; Teixeira M.; Cassimiro J.; Amaro R. C.; Camacho A. C.; Damasceno R.; Carnaval A.; Moritz C.; Rodrigues M. T.. Molecular phylogeny and morphometric analyses reveal deep divergence between Amazonia and Atlantic Forest species of *Dendrophryniscus*. *Molecular Phylogenetics and Evolution*,. 62 - 3, pp. 826 - 838. 2012. ISSN 1055-7903  
**Type of production:** Scientific paper **Format:** Journal
- 30** Recoder R.; Teixeira Jr. M.; Camacho A. G.; Rodrigues M. T.. Natural history of the tropical gecko *Phyllopezus pollicaris* (Squamata, Phyllodactylidae) from a sandstone outcrop in Central Brazil. *Herpetological notes*. 5, pp. 49 - 58. 2012.  
**Type of production:** Scientific paper
- 31** Camacho A.. Responses of ectothermic animals to microclimatic variation. *Revista da Biologia*. 8, pp. 5 - 14. 2012.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 32** Valdujo P. H.; Camacho A.; Recoder R. S.; Teixeira Jr M.; Ghellere J. M. B.; Mott T.; Nunes P.M.; Nogueira C.; Rodrigues M. T.. Amphibians from Estação Ecológica Serra Geral do Tocantins, Jalapão region, Tocantins and Bahia States. *Biota Neotropica*. 11 - 1, pp. 251 - 261,. 2011.  
**Type of production:** Scientific paper **Format:** Journal
- 33** Recoder R. S.; Teixeira Jr M.; Camacho A.; Nunes P. M. S.; Mott T.; Valdujo P. H.; Nogueira C.; Rodrigues; M. T.. Reptiles of Serra Geral do Tocantins Ecological Station, Central Brazil. *Biota Neotropica*. 11 - 1, pp. 263 - 281. 2011.  
**Type of production:** Scientific paper **Format:** Journal
- 34** Camacho A.G.; Caselli C.B.. *Urostrophus vautieri*, Defense behavior and color change. *Herpetological Review*. 42, pp. 610 - 610. 2011.  
**Type of production:** Scientific paper **Format:** Journal
- 35** Recoder R. S.; Teixeira Jr M.; Cassimiro J.; Camacho A. G.; Rodrigues M. T.. A new species of *Dendrophryniscus* (Amphibia, Anura, Bufonidae) from the Atlantic Rainforest of southern Bahia, Brazil. *Zootaxa*. 2642, pp. 36 - 44. 2010.  
**Type of production:** Scientific paper **Format:** Journal



- 36** Camacho A. G.; da Rocha P. L. B.. Passive restoration in biodiversity hotspots: Consequences for an Atlantic rainforest lizard taxocene. *Biotropica*. 42 - 3, pp. 379 - 387. 2010.  
**Type of production:** Scientific paper **Format:** Journal
- 37** Camacho, A.G.; Amaro. R.C.; Rodrigues, M. T.. *Stereocyclops incrassatus* (Dumpy frog). Defensive behaviour. *Herpetological Review*. 41, pp. 210 - 210. 2010.  
**Type of production:** Scientific paper **Format:** Journal
- 38** Rodrigues M. T.; Camacho A.; Nunes P. M. S.; Recoder R. S.; Teixeira jr M.; Valdujo P. H.; Nogueira C.. A new species of the lizard genus *Bachia* (Squamata: Gymnophthalmidae) from the Cerrados of Central Brazil. *Zootaxa*. 1875, pp. 39 - 50. 2008.  
**Type of production:** Scientific paper **Format:** Journal
- 39** Pinto-Leite C. M.; Camacho A. G.; Brazil T. K.. Non-random patterns of spider species composition in an Atlantic rainforest. *Journal of Arachnology*. 36 - 2, pp. 448 - 452. 2008.  
**Type of production:** Scientific paper **Format:** Journal
- 40** Almeida-Silva L. M.; Camacho A. G.; Brescovit A. D.; Lucas S. M.; Brazil T. K.. Redescription and notes on the natural history of the arboreal tarantula *Iridopelma seladonium* (Araneae: Theraphosidae: Aviculariinae). *Revista Brasileira de Zoologia*. 25 - 4, pp. 728 - 736. 2008.  
**Type of production:** Scientific paper **Format:** Journal
- 41** Camacho A. G.; da Rocha P. L. B.; Rios V.; Miranda J. G. V.. Are lizards affected by fractal dimension of light entrance in forests?. *Proc. of the 2006 International Symposium on Mathematical and Computational Biology: BIOMAT*. 2006.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 42** Camacho A. G.; Rodrigues M. T.. *Dryadosaura nordestina*. Geographic distribution. *Herpetological Review*. 38, pp. 218 - 219. 2006.  
**Type of production:** Scientific paper
- 43** Camacho, A.; Angiletta, M.; Levy, O.. A theoretical thermal tolerance function for ectothermic animals and its implications for identifying thermal vulnerability across large geographic scales. *Diversity*. MDPI,  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 44** Camacho; Brunes; Rodrigues. Dehydration alters behavioral thermoregulation and the geography of climatic vulnerability in Amazonian lizards. *Plos One*. Plos,  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 45** Geraci; Rodrigues; Tejedo. Does heat tolerance actually predict animals' geographic thermal limits?. *Ecology Letters*. Wiley,  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 46** Barros, A.; Camacho, A.; Mercival, F.. Nest attachment, rather than nest type correlates with passerine birds' brain size. *IBIS*. Wiley,  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No

- 47** Garcia-Rodriguez; Ferreira; Morales-Guerrero; Gonzalez-Chaves; Camacho; Souza-Miranda; Serrano; Jaimes-Becerra; Marques. Reproductive and environmental traits explain the variation in egg size among Medusozoa (Cnidaria). Proceedings of the Royal Society B. The Royal Society,  
**Type of production:** Scientific paper **Format:** Journal
- 48** Fouquet; Kok; Recoder; Prates; Camacho; Marques-Souza; Ghellere; McDiarmid; Rodrigues. Two new frog families, genera and species highlight the role of Pantepui as a biodiversity museum throughout the Cenozoic. Molecular Phylogenetics and Evolution. Elsevier,  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 49** Agustin Camacho Guerrero. Nuestras especies "chiquitas", grandes olvidadas de la revolución climática. [https://www.eldiario.es/andalucia/la-cuadratura-del-circulo/pequenas-especies-grandes-olvidadas-revolucion-climatica\\_132\\_8526352.html](https://www.eldiario.es/andalucia/la-cuadratura-del-circulo/pequenas-especies-grandes-olvidadas-revolucion-climatica_132_8526352.html). Eldiario.es/lacuadratura del circulo, 2021.  
**Type of production:** Popular science article
- 50** Freitas J. N. S.; Camacho A. G.. Inventário de fauna da Fazenda Cachoeira II. pp. 1. 2006.  
**Type of production:** Scientific-technical report **Format:** Scientific and technical document or report

### Works submitted to national or international conferences

- 1** **Title of the work:** Climatic vulnerability and the thermohydroregulation of tropical lizards  
**Name of the conference:** Virtual Meeting of the Association for Tropical Biology and Conservation  
**Corresponding author:** Yes  
**Date of event:** 21/07/2021  
**End date:** 23/07/2021  
**Organising entity:** Association for Tropical Biology and Conservation  
Agustín Camacho Guerrero; Tuliana Oliveira Brunes; Miguel Rodrigues Trefaut. "Book of abstracts".
- 2** **Title of the work:** Ectothermic vertebrates and invertebrates thermoregulate differently when facing dehydration  
**Name of the conference:** 2019. 8th international symposium on the environmental physiology of ectotherms and plants. Buenos Aires. Argentina.  
**Corresponding author:** Yes  
**City of event:** Buenos Aires, Argentina  
**Date of event:** 29/07/2019  
**End date:** 02/08/2019  
**Organising entity:** Universidad de Buenos Aires **Type of entity:** University  
**City organizing entity:** Buenos Aires, Argentina  
Agustín Camacho Guerrero; Cleverson Desouza Lima; Steffany Caroline Guevara Molina; Márcio Réis Custódio; Tuliana Oliveira Brunes; Priscilla Dantas; André Frazão Helene; Fernando Ribeiro Gomes.
- 3** **Title of the work:** Boosting our power to detect vulnerability to climate warming  
**Name of the conference:** European Conference on Biodiversity and Climate Change  
**Corresponding author:** Yes  
**City of event:** Bonn, Germany  
**Date of event:** 06/2017  
**Organising entity:** German Federal Agency for Nature Conservation (BfN) and the European Network of Heads of Nature Conservation Agencies (ENCA) in co-operation with the Helmholtz Centre for Environmental Research (UFZ)





Agustín Camacho Guerrero; Ofir Levy; Michael Angilletta jr. "Proceedings of the European Conference on Biodiversity and Climate Change 2017".

- 4** **Title of the work:** The voluntary thermal maximum: a forgotten thermal threshold with a much greater ability to detect climatic impacts on lizards. Nombre: World herpetology congress localidad: Huangzhou, pais: China.  
**Name of the conference:** VIII World Congress of Herpetology  
**City of event:** Huangzhou, China  
**Date of event:** 2016  
**Organising entity:** World Congress of Herpetology  
Camacho. A. G.
- 5** **Title of the work:** Co-evolution of body form and geographic range size in lizards from two continents.  
**Name of the conference:** 3rd meeting of the Network for Neotropical biogeography  
**Date of event:** 2015  
**Organising entity:** Network for Neotropical biogeography. ciudad: Bogotá.  
Camacho A. G.
- 6** **Title of the work:** Is it more difficult to thermoregulate hot or cold? Implications for the evolution of thermal physiology  
**Name of the conference:** VII world congress of herpetology  
**City of event:** Vancouver, Canada  
**Date of event:** 2012  
**Organising entity:** World congress of herpetology  
Camacho A. G.; Brandt R.; Navas C. A.; Kholtdorf T.; Rodrigues M. T.
- 7** **Title of the work:** Why have a trait evolved multiple times? Gymnophthalmi lizards provide an answer.  
**Name of the conference:** VII World Congress of herpetology.  
**City of event:** Vancouver, Canada  
**Date of event:** 2012  
**Organising entity:** World Congress of herpetology  
Camacho A.G.
- 8** **Title of the work:** Evolução do Hábito Fossorial em Lagartos do Grupo Gymnophthalmi: Uma Abordagem Eco-Fisiológica  
**Name of the conference:** IX Congresso Latinoamericano de Herpetologia  
**City of event:** Curitiba, Brazil  
**Date of event:** 2011  
**Organising entity:** diversas instituciones  
Closel, M. B.; Camacho, A. G.; Kholtdorf T.
- 9** **Title of the work:** Sources of variation in the evaluation the critical maximum temperature (CTmax)  
**Name of the conference:** XXVI Reunião Anual da Federação de Sociedades de Biologia Experimental  
ciudad: Rio de Janeiro.  
**Date of event:** 2011  
Ribeiro, P.; Navas, C. A; Camacho, A.G.
- 10** **Title of the work:** Evolução da fossorialidade em lagartos gymnophthalmi  
**Name of the conference:** Workshop Internacional sobre Modelagem da Distribuição de Espécies  
**City of event:** Camacan, Brazil  
**Date of event:** 2009



**End date:** 2009

**Organising entity:** consorcio internacional: Museum of vertebrate zoology. University of California.  
Universidade de São Paulo. Universidade Federal da Bahia  
Camacho A. G.

- 11 Title of the work:** Morfologia e Hábitos de Lagartos em ambientes quentes e secos: Evidências de Adaptação?  
**Name of the conference:** IV Congresso Brasileiro de Herpetologia. Simposio: Herpetofauna no semiárido brasileiro, Ecofisiologia e adaptação  
**City of event:** Pirenópolis, Brazil  
**Date of event:** 2009  
**Organising entity:** Sociedade Brasileira de Herpetologia  
 Camacho A. G.
- 12 Title of the work:** Are lizards affected by fractal dimension of light entrance in tropical forests?  
**Name of the conference:** International Symposium on Mathematical and Computational Biology  
**Date of event:** 2006  
**Organising entity:** International Institute for Interdisciplinary Sciences  
 Camacho A.; Rios V.; Vivas-Miranda; Rocha P.
- 13 Title of the work:** Avaliação da eficiência das armadilhas de queda versus coleta ativa para 16 espécies de lagartos do domínio morfoclimático de Mata Atlântica  
**Name of the conference:** II Congresso brasileiro de Herpetologia, ciudad: Belo horizonte.  
**Date of event:** 2005  
**Organising entity:** sociedad brasileira de herpetologia  
 Camacho A.G.; Rocha P. L. B.
- 14 Title of the work:** Resultados preliminares do estudo das comunidades de lagartos das florestas de Camurugipe e Sapianga e da restinga da Praia do Forte: Abundância relativa e carater ubiqüitário das espécies  
**Name of the conference:** II congresso Brasileiro de Herpetologia  
**Corresponding author:** Yes  
**City of event:** Belo horizonte, Brazil  
**Date of event:** 2005  
**Organising entity:** Sociedade Brasileira de Herpetologia  
 da Rocha P. L. B.; Camacho A. G.
- 15 Title of the work:** Eficiência das armadilhas de queda (Pitfalls) na amostragen da herpetofauna do Cariri Paraibano  
**Name of the conference:** 1º Congresso Brasileiro de Herpetologia  
**City of event:** Curitiba, Brazil  
**Date of event:** 2004  
**Organising entity:** Sociedade Brasileira de Herpetologia  
 Camacho A. G.; Duarte M. T.; Santos E. Q.
- 16 Title of the work:** Lista preliminar das serpentes do Semiárido Bahiano  
**Name of the conference:** 1º congresso Brasileiro de Herpetologia  
**City of event:** Curitiba, Brazil  
**Date of event:** 2004  
**Organising entity:** Sociedade Brasileira de Herpetologia



Camacho A. G.; Silva R. M. L.; Casais-e-Silva L. L.; Brasil, T. K.

## Other dissemination activities

- 1** **Title of the work:** ¿Should we change the ways we measure thermal vulnerability in reptiles?  
**Name of the event:** 3er congreso Colombiano de Herpetología  
**Type of event:** congreso  
**Corresponding author:** Yes  
**City of event:** Cali, Colombia  
**Date of event:** 04/08/2022  
**Organising entity:** Asociación Colombiana de Herpetología
- 2** **Title of the work:** Informing conservation measures in front of climate change. Where will lizards persist?  
**Name of the event:** ciclo de palestras  
**Type of event:** Conferences given  
**City of event:** Maputo, Mozambique  
**Date of event:** 2015  
**Organising entity:** Universidade Eduardo Mondlane  
Camacho A. G..
- 3** **Title of the work:** Integrating ecophysiological information into studies of morphological evolution  
**Name of the event:** International Workshop: aplicando novas metodologias para integrar dados ambientais e evolutivos m estudos de biodiversidade na Mata Atlântica  
**Type of event:** Conferences given  
**City of event:** São Paulo, Brazil  
**Date of event:** 2012  
**Organising entity:** The city university of New York- Universidade de São Paulo  
Camacho A. G..
- 4** **Title of the work:** Integrating Biology and Conservation in Brazil: one Spaniard's Perspective  
**Type of event:** Conferences given  
**City of event:** Adelaide, Australia  
**Date of event:** 2011  
**Organising entity:** Adelaide University  
Camacho A. G..
- 5** **Title of the work:** Três coisas importantes sobre as cobras que você deveria saber  
**Name of the event:** Semana extendida de Ciência e Tecnologia  
**Type of event:** Fairs and exhibitions  
**City of event:** São Paulo, Brazil  
**Date of event:** 2011  
**Organising entity:** Universidade de São Paulo  
Camacho A. G..
- 6** **Title of the work:** Nos Bastidores dos Estudos Ecofisiológicos: Manutenção dos Animais, Captura, Transporte e Aspectos Legais  
**Name of the event:** Semana da Biologia  
**Type of event:** Conferences given  
**City of event:** São Paulo, Brazil  
**Date of event:** 2009





**Organising entity:** Instituto de Biociencias da Universidade de São Paulo  
Camacho A. G..

- 7** **Title of the work:** Relação das características de uma comunidade com gradientes de vegetação: Lagartos da Floresta Atlântica Nordestina.

**Name of the event:** Seminarios do Instituto Butantan

**Type of event:** Conferences given

**City of event:** Sao Paulo, Brazil

**Date of event:** 2008

**Organising entity:** Instituto Butantan

Camacho A. G..

- 8** **Title of the work:** Inventários de Fauna: “desiderata”, atualidade e perspectivas

**Name of the event:** Semana da biologia

**Type of event:** Conferences given

**City of event:** Salvador, Brazil

**Date of event:** 2006

**Organising entity:** Instituto de Biologia. Universidade Federal da Bahia

- 9** **Title of the work:** ofidiofauna do semiarido bahiano

**Name of the event:** Semana da Biologia

**Type of event:** Conferences given

**City of event:** Salvador, Brazil

**Date of event:** 2004

**Organising entity:** Insituto de Biologia. Uiversidade Federal da Bahia

Camacho A. G; Lira da silva R. L..

- 10** **Title of the work:** Fotos de espécies raras o ameaçadas publicadas en National Geographic

**Organising entity:** National Geographic Society, The Reptile Database, Arkive, Zoology Museum at Federal University of Bahia, Instituto Chico Mendes

Camacho A. G..

## R&D management and participation in scientific committees

### Scientific, technical and/or assessment committees

- 1** **Committee title:** Banca de Qualificação de Mestrado. Escolha de microhabitat termal por *Rhinella ornata*.

**Primary (UNESCO code):** 240000 - Life Science

**Secondary (UNESCO code):** 240800 - Ethology

**Affiliation entity:** Instituto de Biociências. Universidade de São Paulo.

**City affiliation entity:** São Paulo, Brazil

**Start-End date:** 2016 - 2016

- 2** **Committee title:** Jurado de Tesina. The effect of hydration state on voluntary maximum temperature of a desert reptile, *Heloderma suspectum*

**Primary (UNESCO code):** 240800 - Ethology

**Affiliation entity:** Arizona State University

**Type of entity:** University

**City affiliation entity:** Tempe, United States of America

**Start-End date:** 2016 - 2016



- 3** **Committee title:** Jurado de Tesina. Modelagem potencial de distribuição geográfica para as espécies dos gêneros Cycloramphus e Zachaenus (Anura: Cycloramphidae): o que cenário atual pode dizer sobre o futuro.  
**Primary (UNESCO code):** 240000 - Life Science  
**Secondary (UNESCO code):** 240100 - Animal Biology (Zoology)  
**Affiliation entity:** Instituto de Biociências. **Type of entity:** University  
Universidade de São Paulo  
**City affiliation entity:** São Paulo, Brazil  
**Start-End date:** 2014 - 2014
- 4** **Committee title:** Jurado de Tesina. Biomecânica da locomoção serpentina na Família Gymnophthalmidae.  
**Primary (UNESCO code):** 240000 - Life Science  
**Secondary (UNESCO code):** 240100 - Animal Biology (Zoology); 240600 - Biophysics; 240800 - Ethology  
**Affiliation entity:** Instituto de Biociências. **Type of entity:** University  
Universidade de São Paulo  
**City affiliation entity:** São Paulo, Brazil  
**End date:** 2011
- 5** **Committee title:** Comissão do programa de pós graduação em Zoologia  
**Primary (UNESCO code):** 240000 - Life Science  
**Secondary (UNESCO code):** 240100 - Animal Biology (Zoology)  
**Affiliation entity:** Universidade de São Paulo **Type of entity:** University  
**City affiliation entity:** São Paulo, Brazil  
**Start-End date:** 2008 - 2010
- 6** **Committee title:** Comissão do programa de pós graduação em Zoologia  
**Primary (UNESCO code):** 240000 - Life Science  
**Secondary (UNESCO code):** 240100 - Animal Biology (Zoology)  
**Affiliation entity:** Universidade de São Paulo **Type of entity:** University  
**City affiliation entity:** São Paulo, Brazil  
**Start-End date:** 2008 - 2010
- 7** **Committee title:** Comissão de bolsas do colegiado do Curso de Ecologia e Biomonitoramento da UFBA  
**Primary (UNESCO code):** 240000 - Life Science  
**Secondary (UNESCO code):** 240100 - Animal Biology (Zoology)  
**Affiliation entity:** Instituto de Biologia. Universidade Federal da Bahia  
**Start-End date:** 2005 - 2006
- 8** **Committee title:** Áreas prioritárias para a Conservação, Uso sustentável e Repartição dos benefícios da Biodiversidade da Mata Atlântica  
**Primary (UNESCO code):** 240100 - Animal Biology (Zoology); 249900 - Other biological specialities; 549900 - Other geographical specialities  
**Affiliation entity:** Instituto de Biologia. Universidade Federal da Bahia.  
**City affiliation entity:** Salvador, Brazil  
**End date:** 2006
- 9** **Committee title:** Comissão de programa de pós-graduação em Ecologia e Biomonitoramento.  
**Primary (UNESCO code):** 240000 - Life Science  
**Secondary (UNESCO code):** 240106 - Animal ecology  
**Affiliation entity:** Instituto de Biologia. Universidade **Type of entity:** University  
Federal da Bahia



**City affiliation entity:** Salvador, Brazil  
**Start-End date:** 2004 - 2005

## Organization of R&D activities

- 1** **Title of the activity:** Simposio: How Lizards Turn into Snakes: Combining Fossils, Phylogeny, Function, Genetics, Development, Morphology, and Ecology  
**Type of activity:** Simposio en congreso internacional **Geographical area:** Non EU International  
**Convening entity:** World Herpetology Congress **Type of entity:** Associations and Groups  
**Start-End date:** 2016 - 2016
- 2** **Title of the activity:** Organizador de Curso de Verano: Tópicos en Fisiología Comparativa  
**Type of activity:** Organizador  
**Convening entity:** Departamento de Fisiologia. Instituto de Biociencias. Universidade de São Paulo  
**City convening entity:** São Paulo, Brazil  
**Start-End date:** 2009 - 2010 **Duration:** 1 year
- 3** **Title of the activity:** Organizador de Curso de Inverno em Ecologia. Universidade Federal da Bahia.  
**Type of activity:** Organizador de Curso **Geographical area:** Regional  
**Convening entity:** Instituto de Biologia. Universidade Federal da Bahia  
**City convening entity:** Salvador, Brazil  
**Start-End date:** 2005 - 2005 **Duration:** 4 months

## R&D management

- 1** **Name of the activity:** Investigating the impact of seismic surveys on threatened sea snakes in Australia's North West Shelf  
**Type of management:** Management of R&D&I actions and projects  
**Performed tasks:** co-planificación y co-redacción de proyecto, co-planificación y co-ejecución de viaje de campo y experimentos  
**Entity:** Australian & Pacific Science foundation **Type of entity:** Foundation  
**Start date:** 2013 **Duration:** 2 years
- 2** **Name of the activity:** Comissão do programa de pós graduação em Zoologia  
**Type of management:** Programme management  
**Performed tasks:** Representante de los estudiantes  
**Entity:** Instituto de Biociências. Universidade de São Paulo.  
**Start date:** 2009 **Duration:** 2 years
- 3** **Name of the activity:** Representante dos estudantes na Comissão do programa de pós-graduação em Ecologia e Biomonitoramento  
**Type of management:** Programme management  
**Performed tasks:** representante de estudantes  
**Entity:** Instituto de Biologia Universidade Federal da Bahia  
**Start date:** 2004 **Duration:** 1 year

## Evaluation and revision of R&D projects and articles

- 1** **Performed tasks:** Revisor de proyecto  
**Entity where activity was carried out:** National Science Foundation  
**City of entity:** United States of America  
**Start-End date:** 26/09/2017 - 26/10/2017
- 2** **Performed tasks:** Frontiers in Ecology and Evolution  
**Entity where activity was carried out:** Evolution
- 3** **Performed tasks:** Frontiers in Ecology and Evolution  
**Entity where activity was carried out:** OIKOS
- 4** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Amphibia/Reptilia
- 5** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Animals
- 6** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Annals of Brazilian Academy of Sciences
- 7** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Basic and Applied Ecology
- 8** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Biological Journal of the Linnean Society
- 9** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Biology letters
- 10** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Biotropica
- 11** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Check list
- 12** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Copeia
- 13** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Diversity



- 14** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Frontiers in Ecology and Evolution
- 15** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Global Ecology and Biogeography
- 16** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Herpetological review
- 17** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Herpetozoa
- 18** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Iheringia
- 19** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Insectes Sociaux
- 20** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Journal of Animal Biodiversity and Conservation
- 21** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Journal of Behavioral Processes
- 22** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Journal of Comparative Physiology B
- 23** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Journal of Experimental Biology
- 24** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Journal of Thermal Biology
- 25** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Journal of experimental Biology
- 26** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Journal of experimental Zoology A
- 27** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Phyllomedusa-journal of herpetology



- 28** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Plos One
- 29** **Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Revista da Biologia
- 30** **Name of the activity:** revisor de artículo científico  
**Performed tasks:** Revisor de artículo científico  
**Entity where activity was carried out:** Biological Journal of the Linnean Society
- 31** **Performed tasks:** Revisor de informe técnico  
**Entity where activity was carried out:** Ayuntamiento de Córdoba
- 32** **Performed tasks:** Revisor de informe técnico  
**Entity where activity was carried out:** Ayuntamiento de Córdoba
- 33** **Performed tasks:** Revisor de informe técnico  
**Entity where activity was carried out:** IPBES
- 34** **Performed tasks:** Revisor de proyecto  
**Entity where activity was carried out:** Instituto de Biociências  
**City of entity:** São Paulo,

## Other achievements

### Stays in public or private R&D centres

- 1** **Entity:** Arizona State University **Type of entity:** University  
**Faculty, institute or centre:** School of Life Sciences  
**City of entity:** Tempe, United States of America  
**Start-End date:** 18/05/2015 - 18/05/2016 **Duration:** 1 year  
**Goals of the stay:** Guest  
**Provable tasks:** Desarrollo de método para predecir vulnerabilidad al calentamiento climático en lagartos
- 2** **Entity:** Norwegian school of Economics-GEOSTAT 2014 summer school  
**City of entity:** Bergen, Norway  
**Start-End date:** 15/07/2014 - 22/07/2014  
**Name of programme:** GEOSTAT 2014 summer school  
**Goals of the stay:** Curso
- 3** **Entity:** University of Massachusetts **Type of entity:** University  
**Faculty, institute or centre:** Universidad de los Andes  
**City of entity:** Boston, United States of America  
**Start-End date:** 08/06/2014 - 12/07/2014 **Duration:** 5 days  
**Goals of the stay:** curso  
**Provable tasks:** Intensive Short Course on Phylogenetic Comparative Methods





- 4** **Entity:** Centro Nacional Patagónico (Conicet) **Type of entity:** Public Research Body  
**Faculty, institute or centre:** Universidad Nacional de la Patagonia San Juan Bosco  
**City of entity:** Puerto Madryn, Brazil  
**Start-End date:** 12/09/2013 - 16/09/2013 **Duration:** 5 days  
**Goals of the stay:** Curso  
**Provable tasks:** Estimating and analyzing thermal sensitivity of ectotherms and inferences for the biotic effects of climate change
- 5** **Entity:** Adelaide University **Type of entity:** University  
**City of entity:** Adelaide, Australia  
**Start-End date:** 25/06/2013 - 21/08/2013 **Duration:** 1 month - 27 days  
**Goals of the stay:** Guest  
**Provable tasks:** Preparación de artículo científico y ejecución de proyecto sobre biología de serpientes marinas
- 6** **Entity:** Adelaide University **Type of entity:** University  
**Faculty, institute or centre:** Adelaide University  
**City of entity:** Adelaide, Australia  
**Start-End date:** 14/11/2011 - 21/01/2012 **Duration:** 2 months - 10 days  
**Goals of the stay:** Guest  
**Provable tasks:** Producción de un artículo científico y solicitud de un premio de investigación
- 7** **Entity:** Instituto Nacional de Pesquisas Amazônicas (INPA) **Type of entity:** Public Research Body  
**City of entity:** Manaus, Brazil  
**Start-End date:** 07/08/2005 - 07/09/2005 **Duration:** 2 months  
**Goals of the stay:** Curso de Campo en Ecología  
**Provable tasks:** Aprendizaje de técnicas de ecología de Campo, redacción de artículos científicos.
- 8** **Entity:** Universidade Católica do Paraná **Type of entity:** University  
**City of entity:** Curitiba, Brazil  
**Start-End date:** 11/06/2004 - 16/11/2004 **Duration:** 5 days  
**Goals of the stay:** Curso  
**Provable tasks:** Aprendizaje de técnicas sobre biología reproductiva de serpientes

## Obtained grants and scholarships

- 1** **Name of the grant:** Bolsa de Pós Doutorado FAPESP  
**Awarding entity:** FAPESP: 12-15754-8 **Type of entity:** Foundation  
**Conferral date:** 09/12/2012  
**End date:** 09/11/2017
- 2** **Name of the grant:** Bolsa de Estágio de Pesquisa no Exterior  
**Aims:** Post-doctoral  
**Awarding entity:** FAPESP: 15/01300-3 **Type of entity:** Foundation  
**Conferral date:** 18/05/2015  
**End date:** 18/05/2016



- 3** **Name of the grant:** Bolsa CAPES aluno de doutorado  
**Awarding entity:** Coordenação de Aperfeiçoamento de Pessoal de Nível Superior  
**Conferral date:** 07/2008  
**End date:** 07/2012  
**Entity where activity was carried out:** Instituto de Biociências. Universidade de São Paulo
- 4** **Name of the grant:** Auxílio a projeto de pesquisa  
**Awarding entity:** FAPESP: 2008/06143-0  
**Conferral date:** 01/10/2008  
**End date:** 30/09/2010  
**Entity where activity was carried out:** Instituto de biociencias. Universidade de São Paulo
- 5** **Name of the grant:** Bolsa apoio técnico FAPESB  
**Awarding entity:** Fundação de Amparo a Pesquisa do Estado da Bahia  
**Conferral date:** 08/09/2006  
**End date:** 04/08/2006  
**Entity where activity was carried out:** Instituto de Biologia. Universidade de São Paulo
- 6** **Name of the grant:** Bolsa CAPES para aluno de mestrado  
**Awarding entity:** Coordenação de Aperfeiçoamento de Pessoal de Nível Superior  
**Type of entity:** State agency  
**Conferral date:** 2005  
**End date:** 2006  
**Entity where activity was carried out:** Insituto de biologia. Universidade Federal da Bahia
- 7** **Name of the grant:** Beca Intercampus  
**Awarding entity:** FUNDACION COLEGIOS MAYORES MAE-AECI  
**Conferral date:** 16/07/2002  
**End date:** 31/10/2002  
**Entity where activity was carried out:** Instituto de Biologia. Universidade Federal da Bahia

## Editorial councils

- 1** **Name of the editorial council:** Editor de área: Ecofisiología, Biogeografía y Herpetología  
**Affiliation entity:** Revista Diversity MDPI  
**Type of entity:** Business  
**City affiliation entity:** BaselBasel, Switzerland  
**Start date:** 22/05/2021
- 2** **Name of the editorial council:** Editor de área Ecofisiología, Biogeografía y Herpetología  
**Affiliation entity:** Revista Animal Biodiversity and Conservation  
**City affiliation entity:** Barcelona, Barcelona, Spain  
**Start date:** 20/06/2020
- 3** **Name of the editorial council:** Coordinador: Revista da Biologia.  
**Affiliation entity:** Instituto de Biologia. Universidade de São Paulo  
**City affiliation entity:** São PauloSão Paulo, Brazil  
**Start date:** 2011  
**Duration:** 3 years





## Prizes, mentions and distinctions

- 1** **Description:** Distinción a la originalidad en tesis de Mestrado  
**Awarding entity:** Programa d pós graduação em Ecologia e Biomonitoramento. Insituto de Biologia. Universidade Federal da Bahia  
**City awarding entity:** Salvador, Brazil  
**Conferral date:** 06/10/2006  
**Type of entity:** University Research Institute
- 2** **Description:** Premio de fotografía ciclo integral del água  
**Awarding entity:** EMACSA  
**City awarding entity:** Córdoba, Andalusia, Spain  
**Conferral date:** 2003  
**Type of entity:** Business
- 3** **Description:** V certamen de fotografía de Córdoba  
**Awarding entity:** Ayuntamiento de Córdoba  
**City awarding entity:** Córdoba, Andalusia, Spain  
**Conferral date:** 2003
- 4** **Description:** Premio Fotografía de la Naturaleza  
**Awarding entity:** Facultad de Ciencias de Córdoba  
**City awarding entity:** Córdoba, Andalusia, Spain

## TITOLO Ph.D.

13 N. pubblicazioni, 219 Citazioni, 10 H-index, 10 i10-index, 5.18 impact factor medio 6.08, impact factor totale 73.05, 9 N. pubblicazioni Q1, 1 N. pubblicazioni Q2, 1 N. pubblicazioni Q3, 3 N. pubblicazioni primo nome

2021-2022

Nome ed indirizzo del datore di lavoro

Assegnista di ricerca

Stazione Zoologica Anthon Dohrn  
Villa Comunale, 80121 Napoli NA

Principali attività di ricerca e responsabilità:

- Valutazione delle microplastiche come potenziale preda dello zooplancton all'interno del progetto internazionale MicroplastiX <https://www.microplastix.org>
- Campionamento con manta e smistamento riconoscimento e misurazione delle principali specie dello zooplancton del Mediterraneo occidentale
- Digestioni chimiche ed enzimatiche di materiale biologico
- Esperimenti di grazing in laboratorio
- Analisi statistiche
- Scrittura di report ed articoli scientifici in lingua inglese

2020-2021

Nome ed indirizzo del datore di lavoro

Assegnista di ricerca

IRET-CNR

Via Madonna del Piano Sesto Fiorentino (FI)

Principali attività di ricerca e responsabilità:

- Valutazione dei parametri abiotici in funzione della variazione del livello d'acqua del lago Maggiore negli anni 2019-2021
- campionamento smistamento e misurazione della meiofauna bentonica del lago Maggiore
- creazione banca dati ed analisi statistiche
- scrittura di report ed articoli scientifici in lingua inglese

2018-2020

Nome ed indirizzo del datore di lavoro

Professore terza fascia

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Liceo Statale Scientifico Paolo Borsellino Via Valle Epiconia Zagarolo (RM) telefono: 06 95 24 348 Email : [RMIS077005@ISTRUZIONE.IT](mailto:RMIS077005@ISTRUZIONE.IT) PEC: [rmis077005@pec.istruzione.it](mailto:rmis077005@pec.istruzione.it)

Principali attività di ricerca e responsabilità:

Insegnamento chimica e biologia scienze naturali classe di concorso A050

2016-2017

Nome ed indirizzo del datore di lavoro

esperto ambientale

Ente Parco Nazionale del Gran Sasso e Monti della Laga

Via Del Convento,1 - 67010 Assergi (AQ)

Tel. 0862/60521 Fax 0862/606675 - E-mail: [ente@gransassolagapark.it](mailto:ente@gransassolagapark.it)

Principali attività di ricerca e responsabilità:

- 1) valutazione del rischio ambientale nei principali acquiferi alluvionali della regione Abruzzo sensu Direttiva 2000/60/CE;
- 2) redazione report scientifici in linea con metodologia REACH.
- 3) analisi statistiche di dati ambientali ed eco tossicologici.

2014-2016

Nome ed indirizzo del datore di lavoro

### Stage di laboratorio

Laboratorio di Ecologia delle Acque Sotterranee  
ISE (Istituto per lo Studio degli Ecosistemi) -CNR (Consiglio Nazionale delle ricerche) - Via Madonna del Piano 10, Sesto Fiorentino, 50019 Firenze, Italia

Principali attività di ricerca e responsabilità:

- 1) valutazione dei trend temporali e spaziali relativi alla presenza di composti organici volatili (volatile organic compounds - VOCs) nei principali acquiferi alluvionali della regione Abruzzo;
- 2) analisi ecotossicologiche volte a valutare la tossicità acuta dello ione ammonio, dell'erbicida Imazamox e della miscela dei due inquinanti.
- 3) analisi del metabolismo respiratorio della specie *Eucyclops serrulatus* (Crustacea Copepoda Cyclopoida) volte a valutare l'effetto dello ione ammonio, somministrato in concentrazioni sub-letali, sull'attività respiratoria, in funzione dello stadio di sviluppo ontogenetico (adulti vs. copepoditi);
- 4) analisi ecologiche di laboratorio volte alla standardizzazione del controllo da utilizzare in test ecotossicologici in *full life-cycle* con la specie *Eucyclops serrulatus*.

2013-2014

Nome ed indirizzo del datore di lavoro

### Stage di laboratorio

LHENA (Laboratoire d'Ecologie des Hydrosystèmes Naturels et Anthropisés)  
Université Claude Bernard Lyon 1, France CNRS, UMR5558, Boulevard 11 Novembre Bâtiment Forel 69100, Villeurbanne

Principali attività e responsabilità:

- 1) attività di campionamento degli ecosistemi iporreici e bentonici di fiumi planiziali europei, con particolare riferimento al fiume Reno;
- 2) smistamento e identificazione tassonomica della fauna interstiziale e bentonica (micro e macro-invertebrati) di fiumi planiziali europei;
- 3) ecologia e gestione dei sistemi fluviali con particolare riferimento alla facies iporreica;
- 4) elaborazioni statistiche dei dati biologici ed ambientali mediante i più recenti software *open-source* (es. R software);
- 5) stesura di report e presentazione dei dati in inglese.

2010-2013

Nome ed indirizzo del datore di lavoro

### Stage di laboratorio

Laboratorio di Stigobiologia Università degli Studi dell'Aquila  
Dipartimento Medicina Clinica, Sanità Pubblica, Scienze della Vita e dell'Ambiente (MESVA), Via Vetoio, Coppito, 67100 L'Aquila, Italia

Principali attività e responsabilità:

- 1) attività di campionamento di ambienti iporreici e bentonici nel fiume Sagittario;
- 2) campionamento epibentonico mediante retini da drift e campionario di Hess di sedimenti superficiali di ambienti sorgivi (sorgenti di Pesciano, fiume Tirino, Abruzzo e sorgenti di Capo Pescara) ai fini della valutazione e conservazione della biodiversità acquatica sotterranea

## EDUCAZIONE E FORMAZIONE

2013-2016

### Dottorato in Biologia Ambientale

Università degli Studi dell'Aquila  
Tutor: Prof. Diana M. P. Galassi  
Co-tutors: Ricercatrice CNR Tiziana Di Lorenzo  
Titolo Tesi: SENSITIVITY OF FRESHWATER HYPOGEAN AND EPIGEAN COPEPOD SPECIES TO ANTHROPOGENIC POLLUTANTS AND THEIR USE IN THE ENVIRONMENTAL RISK ASSESSMENT

Principali tematiche trattate: Valutazione del rischio ambientale e di metodologie per l'analisi della qualità biologica e chimica degli ecosistemi dipendenti dalle acque sotterranee

Votazione: **Ph.D. cum laude**

2012-2013

### Master I

Università di Lione Claude Bernard  
Dipartimento: Sciences, Technologies, Santé  
Indirizzo: Ecosciences et Microbiologie  
Votazione: assez bien

- 2012-2013 Laurea Magistrale in Biologia Ambientale**  
 Università degli studi dell'Aquila  
 Tutor: Prof. Diana M. P. Galassi  
 Co-tutors: Prof. Pierre Marmonier, Dr.ssa Marie José Olivier, Dr. Christophe Piscart  
 Titolo Tesi: *Distribution patterns of interstitial invertebrate of the Rhine floodplain: spatial scale sensitivity across habitat types*  
 Principali tematiche trattate: ecologia degli ambienti iporreici, analisi della diversità delle comunità di invertebrati interstiziali di grandi fiumi planiziali europei, analisi dei pattern distribuzione delle comunità iporreiche.  
 Tesi discussa in lingua inglese.  
 Votazione: **110/110 cum laude**
- 2011-2013 Laurea triennale in Scienze e Tecnologie per l'Ambiente**  
 Università degli studi dell'Aquila  
 Tutor: Prof. Diana M.P. Galassi  
 Titolo tesi: *Pattern di distribuzione dei Crustacea Copepoda nelle acque sotterranee dell'Europa Meridionale*  
 Principali tematiche trattate: ecologia delle acque sotterranee, ecologia dei Crustacea Copepoda di acque dolci e sotterranee, analisi di distribuzione spaziale delle taxocenosi a copepodi a scala europea  
 Tesi discussa in lingua italiana  
 Votazione: **96/110**

## Competenze personali

Lingua Madre Italiano

## Altre lingue

	COMPRESIONE	SCRITTO	PARLATO
Inglese	C1	C1	C1
Francese	C1	B2	C1

## Corsi

2018-2019  
**CORSI 24 CFU IN DISCIPLINE SOCIO-PSICO-PEDAGOGICHE**  
**Antropologia culturale (AD121), Psicologia dell'apprendimento (AD120), Teoria e metodi dell'apprendimento e valutazione didattica (AD123)**  
 Università per Stranieri Dante Alighieri  
 Reggio Calabria

## Riconoscimenti

2021-2022  
**Best poster presentation** International Conference on Microplastic Pollution in the Mediterranean Sea. 25-28 September 2022, Partenope Congress Centre, Naples (Italy).

2021-2022  
**Best poster presentation** e-ICOC on line conference, 25 - 30 July 2022.

2013-2016  
**Vincitore di Dottorato con Borsa**  
*Finalità del dottorato:* studio sulla sensibilità della fauna acquatica sotterranea (stigobia) e superficiale (stigossena) ai principali inquinanti ambientali di origine antropica. Gli obiettivi di tale sperimentazione sono stati volti all'identificazione degli effetti di tali sostanze sul biota sotterraneo e superficiale in termini di alterazioni delle comunità, e delle alterazioni fisiologiche e metaboliche di tali organismi.

2012-2013  
**Vincitore Borsa di studio Dual Master Degree**  
 Finalità della borsa: mobilità internazionale ai fini del conseguimento della laurea magistrale a doppio titolo Percorso internazionale: Université Claude Bernard, Lyon 1 e l'Università degli Studi dell'Aquila

## Competenze tecniche

Capacità di esecuzione protocolli eco-tossicologici in acuto ed in cronico su specie di Invertebrati dulciacquicoli. Conoscenza ed utilizzo delle principali tecniche di campionamento di ecosistemi acquatici marini planctonici e dulciacquicoli superficiali e sotterranei, con particolare riferimento agli ambienti di interfaccia, iporreici e sorgivi. Conoscenza e utilizzo delle principali tecniche di campionamento. Competenze nell'uso di sonde multi-parametriche per il rilevamento dei parametri chimico-fisici delle acque superficiali e sotterranee. Utilizzo dello stereomicroscopio per lo smistamento ed identificazione di micro- e macroinvertebrati di acqua dolce e marini. Capacità di

scrivere report e presentare dati scientifici in lingua inglese e francese.  
Ottima competenza statistiche per l'analisi dei dati ambientali.

#### Competenze informatiche

Ottima conoscenza del pacchetto Microsoft Office e dei principali motori di ricerca.  
Ottima conoscenza di R software, software *open - source* di elaborazione statistica dei dati (<http://www.r-project.org/>).  
Ottimo uso del programma Primer© Copyright 2013 PRIMER-E Ltd di elaborazione statistica dei dati.

#### Patente di guida

B

#### Lista Pubblicazioni su riviste internazionali con impact factor

- 12) **Cifoni M**, Boggero A, Rogora M, Ciampittiello M, Martínez A, Galassi DMP, Fiasca B, Di Lorenzo T (2022). Effects of human-induced water level fluctuations on copepod assemblages of the littoral zone of Lake Maggiore. *HYDROBIOLOGIA*, vol. 849, p. 3545-3564, ISSN: 0018-8158, doi: <https://doi.org/10.1007/s10750-022-04960-3>
- 11) Di Lorenzo T, Fiasca B, Di Cicco M, **Cifoni M**, Galassi DMP (2021). Taxonomic and functional trait variation along a gradient of ammonium contamination in the hyporheic zone of a Mediterranean stream. *ECOLOGICAL INDICATORS*, vol. 132, p.108268 , doi: <https://doi.org/10.1016/j.ecolind.2021.108268>
- 10) **Cifoni M**, Boggero A., Galassi DMP, Di Lorenzo T (2021). An overview of studies on meiofaunal traits of the littoral zone of lakes. *WATER*, vol. 13, ISSN: 2073-4441, doi: 10.3390/w13040473. IF 3.103- Rank Q2
- 9) Di Lorenzo T, **Cifoni M**, Baratti M, Pieraccini G, Di Marzio WD, Galassi DMP (2021). Four scenarios of environmental risk of diclofenac in European groundwater ecosystems. *ENVIRONMENTAL POLLUTION*, vol. 287, ISSN: 0269-7491, doi: 10.1016/j.envpol.2021.117315, IF 8.071- Rank Q1
- 8) Di Lorenzo T, **Cifoni M**, Fiasca B, Di Cioccio A., Galassi DMP (2018). Ecological risk assessment of pesticide mixtures in the alluvial aquifers of central Italy: Toward more realistic scenarios for risk mitigation. *SCIENCE OF THE TOTAL ENVIRONMENT*, vol. 644, p. 161-172, ISSN: 0048-9697, doi: <https://doi.org/10.1016/j.scitotenv.2018.06.345>, IF 7.963- Rank Q1
- 7) Di Marzio WD, **Cifoni M**, Saenz ME, Galassi DMP, Di Lorenzo T (2018). The ecotoxicity of binary mixtures of Imazamox and ionized ammonia on freshwater copepods: Implications for environmental risk assessment in groundwater bodies. *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*, vol. 149, p. 72-79, ISSN: 0147-6513, doi: <https://doi.org/10.1016/j.ecoenv.2017.11.031>, IF 6.291- Rank Q1
- 6) **Cifoni M**, Galassi DMP, Faraloni, C, Di Lorenzo T (2017). Test procedures for measuring the (sub)chronic effects of chemicals on the freshwater cyclopoid *Eucyclops serrulatus*. *CHEMOSPHERE*, vol. 173, p. 89-98, ISSN: 0045-6535, doi: 10.1016/j.chemosphere.2016.12.151, IF 7.086- Rank Q1
- 5) Di Lorenzo T, Melita M, **Cifoni M**, Galassi DMP, Iannucci, A, Biricolti S, Gori M, Baratti M (2017). Effect of ammonia on the gene expression levels of the freshwater cyclopoid *Eucyclops serrulatus*. *ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY*, vol. 51, p. 138-141, ISSN: 1382-6689, doi: ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY 10.1016/j.etap.2017.02.017, IF 4.860- Rank Q1
- 4) Di Lorenzo T, Cannicci S, Spigoli D, **Cifoni M**, Baratti M, Galassi DMP (2016). Bioenergetic cost of living in polluted freshwater bodies: respiration rates of the cyclopoid- 4 -*Eucyclops serrulatus* under ammonia-N exposures. *FUNDAMENTAL AND APPLIED LIMNOLOGY*, vol. 188, p. 147-156, ISSN: 1863-9135, doi: 10.1127/fal/2016/0864, IF 1.148- Rank Q3
- 3) Di Lorenzo T, Di Marzio WD, **Cifoni M**, Fiasca B, Baratti M, Saenz WE, Galassi DMP (2015). Temperature effect on the sensitivity of the copepod *Eucyclops serrulatus* (Crustacea, Copepoda, Cyclopoida) to agricultural pollutants in the hyporheic zone. *CURRENT ZOOLOGY*, vol. 61, p. 629-640, ISSN: 1674-5507, IF 2.624- Rank Q1
- 2) Di Lorenzo T, Borgoni R, Ambrosini R, **Cifoni M**, Galassi DMP, Petitta M. (2015). Occurrence of volatile organic compounds in shallow alluvial aquifers of a Mediterranean region: baseline scenario

and ecological implications. SCIENCE OF THE TOTAL ENVIRONMENT, vol. 538, p. 712-723, ISSN: 0048-9697, doi:10.1016/j.scitotenv.2015.08.077, IF 7.963- Rank Q1

1) Di Lorenzo T, **Cifoni M**, Lombardo P, Fiasca B, Galassi DMP (2014). Ammonium threshold values for groundwater quality in the EU may not protect groundwater fauna: evidence from an alluvial aquifer in Italy. HYDROBIOLOGIA, vol. 743, p. 139-150, ISSN: 0018-8158, doi: DOI 10.1007/s10750-014-2018-y, IF 2.694- Rank Q1

Partecipazioni a conferenze e presentazioni di poster scientifici

**Cifoni M**, Mazzocchi MGM. Spatial and temporal variability of microplastic ingestion by zooplankton species in the Gulf of Naples (Western Mediterranean Sea). International conference on Microplastic Pollution in the Mediterranean Sea. 25-28 september Partenope Congress Centre,. Naples (Italy)

**Cifoni M**, Mazzocchi MGM. Microplastic ingestion by copepod species in the Gulf of Naples (Western Mediterranean Sea)

**Cifoni M**, Boggero A, Galassi DMP, Rogora M, Ciampittello M, Fiasca B, Di Lorenzo T. Assessing the effects of water level variations on the copepod assemblages of the littoral zone of Lake Maggiore. XXV CONGRESSO AIOL 30/06/2021-2/07/2021. IRSA sede Verbania-Italy.

**Cifoni M**, Galassi DMP, Fiasca B, Faraloni C, Di Lorenzo T. Development of a full-life cycle and reproduction bioassay with the freshwater cyclopoid *Eucyclops serrulatus*. XXXIII CONGRESS SIL 31 July – 5 August 2016, Torino (ITALY).

Galassi DMP, Baratti M, Cannici S, **Cifoni M**, Di Marzio W, Sáenz Maria E, Di Lorenzo T. Occurrence of ionized ammonia contamination in the groundwater bodies of Abruzzo Region and consequences for groundwater copepods. "Inquinamento antropico di acque e suoli in Italia", Giornata Mondiale dell'Acqua- 21 Marzo 2015, Accademia Nazionale dei Lincei - Rome, Italy.

**Cifoni M**, Di Lorenzo T, Faraloni C, Galassi DMP. A practical life-cycle assay in 96-wells microplate format to estimate the development, fertility and reproduction of the cyclopoid *Eucyclops serrulatus*. S.It.E - A.I.O.L. XI INCONTRO DEI DOTTORANDI IN ECOLOGIA E SCIENZE AMBIENTALI 17-19 Settembre 2015, Università Sapienza - Rome, Italy.

**Cifoni M**, Di Lorenzo T, Faraloni C, Galassi DMP. A protocol for a development, reproduction and population growth test with freshwater copepods. International Conference on Groundwater in Karst 20-26 June 2015, Birmingham, UK.

Fiasca B, Di Cioccio A, Stoch F, Di Lorenzo T, Di Francesco M, Porfirio S, **Cifoni M**, Galassi DMP. The EC-AQUALIFE Project in Italy: state of the art and future prospects. International Conference on Groundwater in Karst 20-26 June 2015, Birmingham, UK.

Contatti per riferimenti accademici

Di Lorenzo T, **Cifoni M**, Galassi DMP, Di Marzio WD. Sensitivity of hypogean and epigean freshwater copepods (Crustacea Copepoda) to agricultural pollutants: single toxicants and mixtures". SETAC Europe 24th annual meeting in Basel, Switzerland from 11-15 May 2014. Session: Risk assessment.

Maria Grazia Mazzocchi, Primo Ricercatore EMI-SZN, Stazione Zoologica Anton Dohrn Napoli - Italy  
Villa Comunale, 80121 Napoli, Italy  
e-mail: grazia@szn.it

Tiziana Di Lorenzo, permanent Researcher at ISE- CNR, Via Madonna del Piano 10, Sesto Fiorentino, 50019 Florence, Italy  
e-mail: tiziana.dilorenzo@ise.cnr.it

Diana Maria Paola Galassi, Associate Professor at the Department of Life, Health and Environmental Sciences, University of L'Aquila, Via Vetoio, Coppito, 67100 L'Aquila, Italy  
e-mail: dianamariapaola.galassi@univaq.it

L'Aquila, 30/04/2022

Autorizzo il trattamento dei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali.

## CURRICULUM VITAE SCIENTIFICO PROFESSIONALE

### Competenze linguistiche

Italiano: madrelingua

Inglese: buona conoscenza della lingua parlata e scritta.

Francese: conoscenza scolastica

### Titoli di studio

- 2019: Dottorato di ricerca in “Biologia Molecolare Cellulare e Ambientale” (BMCA) (XXXI° ciclo) svolto presso il Dipartimento di Scienze, Università degli Studi “Roma Tre”. Tesi di dottorato dal titolo “Study on the evolution of explosive defensive systems in Coleoptera through functional anatomy and ultrastructure”.
- 2015: Laurea magistrale in Biodiversità e gestione degli ecosistemi conseguita presso l'Università degli Studi “Roma Tre”, riportando la votazione di 110/110 e lode. Tesi dal titolo “Functional anatomy of the explosive defensive system of bombardier beetles (Coleoptera, Carabidae, Brachininae).”.
- 2008: Laurea triennale in Scienze biologiche conseguita presso l'Università degli Studi “Roma Tre”, riportando la votazione di 110/110 e lode. Tesi dal titolo “Simbiosi tra batteri e insetti”.
- 2004: Diploma di Maturità Scientifica conseguito presso il Liceo Statale Stanislao Cannizzaro in Roma, riportando la votazione di 90/100.

### Esperienze professionali di ricerca

- 01/11/2021-in corso: Borsa di ricerca presso il Dipartimento di Scienze dell'Università degli Studi “Roma Tre” nell’ambito del progetto “Alterazioni metaboliche nella Sclerosi Laterale Amiotrofica: identificazione di nuovi biomarcatori diagnostici e potenziali target terapeutici”, responsabile scientifico Prof. Sandra Moreno (Durata 20 mesi).
- 01/02/2019-30/01/2021: Assegno di ricerca biennale presso il Dipartimento di Scienze dell'Università degli Studi “Roma Tre”; nell’ambito della ricerca “CanBBio - Cantaridina: dalla Biodiversità alle Biotecnologie” finanziata dalla Regione Lazio (Progetti Gruppi di ricerca e Conoscenza e Cooperazione per un Nuovo Modello di Sviluppo, L.R. Lazio 13/08), responsabile scientifico Prof. Marco Alberto Bologna.

### Corsi di formazione e tirocini

- 2018 Corso “Corso base di R per scienze biologiche ed ambientali”, Dr. Paolo Piras, svolto presso l'Università degli Studi Roma Tre.
- 2017 Corso “Practical course on Molecular Phylogeny and Population Genetics”, Dr. Emiliano Mancini, svolto presso l'Università degli Studi Roma Tre.

- 2016 Corso “Molecular Phylogenetics: Then, Now and the Future”, Prof. Wendy Moore (University of Arizona) e Dr. James Robertson (University of Arizona), svolto presso l’Università degli Studi Roma Tre.
- 2015 Corso teorico-pratico di microscopia a fascio ionico (Focused Ion Beam, FIB), Ing. Dr. De Felicis, Laboratorio Interdipartimentale di Microscopia Elettronica (L.I.M.E.), Università degli Studi Roma Tre. Abilitazione all’utilizzo in autonomia dello strumento Dualbeam FIB/SEM Helios Nanolab F.E.I.
- 2015: Corso teorico-pratico di microscopia elettronica a scansione, Ing. Dr. De Felicis, Laboratorio Interdipartimentale di Microscopia Elettronica (L.I.M.E.), Università degli Studi Roma Tre. Abilitazione all’utilizzo in autonomia dello strumento SEM Philips XL30.
- 2015 Attività di tirocinio presso il laboratorio di biologia molecolare del Prof. Paolo Mariottini, Università degli studi Roma Tre (apprendimento di tecniche di PCR).
- 2014 Attività di tirocinio presso il laboratorio di Citologia, Istologia ed Embriologia della Prof. Sandra Moreno, Università degli studi Roma Tre (preparativa di campioni biologici per microscopia elettronica in trasmissione: fissazione chimica, contrasto, inclusione in resina e produzione di sezioni ultrasottili mediante ultramicrotomo).
- 2013 Corso teorico-pratico, di Microscopia Elettronica in Trasmissione Ing. Dr. De Felicis, Laboratorio Interdipartimentale di Microscopia Elettronica (L.I.M.E.), Università degli Studi Roma Tre. Abilitazione all’utilizzo in autonomia dello strumento TEM Philips CM120.

### **Attività didattica universitaria**

- 2018, 2019, 2020, 2021, 2022. Collaborazione per attività didattiche nell’ambito del Master di II livello in “Embriologia Umana Applicata” relativamente alle lezioni di “Fondamenti teorico pratici di microscopia elettronica” e “Laboratorio di microscopia elettronica applicata allo studio dei gameti” comprese nell’unità didattica “Biologia molecolare della cellula: fondamenti e applicazioni”.
- 2018. Seminario su invito “Novel approaches to study arthropod anatomy by using dualbeam FIB/SEM” presso Eesti Maaülikool (Estonian University of Life Sciences) (Tartu, Estonia), 19 Giugno 2018.
- 2018-oggi: Culture della materia presso l’Università degli Studi Roma Tre per gli insegnamenti di ambito zoologico.
- 2015-oggi: Supporto alla didattica con lezioni frontali ed assistenza durante le esercitazioni sul campo ed in laboratorio e supporto agli esami per i seguenti corsi: Zoologia (Corso di Laurea Triennale in Scienze Biologiche), Biodiversità ed Ecologia della Fauna del Suolo, Entomologia, Laboratorio di Microscopia Elettronica (Corsi di Laurea Magistrale in Biodiversità e Gestione degli Ecosistemi).
- 2015-oggi: correlatore di 5 tesi di laurea triennali:
  - 2023: Martina Tartacca “Neurogenesi e malattia di Alzheimer”, relatrice Prof. Sandra Moreno
  - 2022: Francesco Sirotti “Il sistema difensivo dei coleotteri carabidi”, relatore Prof. Andrea Di Giulio



- 2019: Alessandro Cavallari “Applicazioni della microtomografia computerizzata alla ricerca entomologica.”, relatore Prof. Andrea Di Giulio.
- 2017: Lorenzo Fortini “Ghiandole pigidiali dei coleotteri Adefagi: morfologia, funzionamento e chimica delle secrezioni.”, relatore Prof. Andrea Di Giulio.
- 2016: Marta Tatì “Applicazione della radiazione di sincrotrone per lo studio morfologico e fisiologico degli insetti.”, relatore Prof. Andrea Di Giulio.

### **Attività di divulgazione scientifica**

- 2020. Partecipazione alla creazione del servizio “Entomologia al microscopio” contenuto nella seconda puntata di Superquark 2020, trasmessa su Rai 1 il 22/7/2020.

### **Principali interessi di ricerca**

- Studio della morfologia funzionale, anatomia ed ultrastruttura di cellule e tessuti animali con particolare attenzione a ghiandole ed organi di senso in insetti, mediante l’impiego di tecniche di microscopia ottica (stereo-microscopia, analisi istologiche e microscopia a fluorescenza), elettronica (a scansione, SEM, in trasmissione, TEM) ed a fascio ionico focalizzato (FIB/SEM).
- Caratterizzazione morfologica ed analisi di organi e strutture interne in insetti tramite ricostruzione di modelli tridimensionali derivanti da microtomografia computerizzata a raggi X.
- Studio delle alterazioni ultrastrutturali in modelli animali e cellulari per lo studio di malattie neurodegenerative con particolare interesse verso aberrazioni mitocondriali.

### **Responsabilità o partecipazione a progetti di ricerca nazionali ed internazionali finanziati**

- 2016. Partecipante nel progetto finanziato SYNTHESYS (Synthesis of Systematic Resources, the European Union-funded Integrated Activities grant), DE-TAF-5591 “Virtual 3D imaging of Ant nest Beetles through Micro-CT scanning for advanced morphological studies”; Responsabile scientifico: A. Di Giulio. Svolto dal 5 al 9 Dicembre 2016 presso il Museum für Naturkunde (Museum of Natural History, Berlin, Germany).
- 2016. Responsabile del progetto finanziato SYRMEP (SYnchrotron Radiation for MEDical Physics) beamline, proposal\_20160088 “Functional anatomical study of the flanged bombardier beetle explosive defensive system”; Responsabile: Maurizio Muzzi; Partecipanti: Maurizio Muzzi, Andrea Di Giulio, Stefano Franchi; Contatti locali: Giuliana Tromba, Christian Dullin. Svolto dal 9 al 15 novembre 2016 (72 ore di utilizzo del fascio), presso ELETTRA Sincrotrone Trieste (ELETTRA synchrotron, Trieste, Italy).

## Collaborazioni scientifiche nazionali ed internazionali

### Collaborazioni nazionali:

- Prof. M. Marino, Università Roma Tre (indagini ultrastrutturali su linee di cellule tumorali del seno trattate con resveratrolo coniugato con nanoparticelle di oro).
- Prof. M. Fiocchetti, Università Roma Tre (analisi morfologiche di esosomi)
- Prof. A. Sgura, Università Roma Tre (ultrastruttura di fibroblasti e morfologia mitocondriale nell'ambito dello studio della telomerasi trascrittasi inversa).
- Dott. A. Ferri, Istituto di Farmacologia Traslazionale CNR (studio degli effetti del farmaco trimetazidina su autofagia e morfologia mitocondriale in colture cellulari derivanti da midollo spinale e corteccia cerebrale di topi transgenici SOD1-G93A).
- Prof. M.A. Bologna, Università Roma Tre (ghiandole accessorie di coleotteri meloidi).
- S. Moreno, Università Roma Tre (ultrastruttura di cellule staminali pluripotenti indotte; studio delle alterazioni mitocondriali nella sindrome di Brown-Vialetto-Van Laere; analisi morfologiche ed ultrastrutturali nell'ambito dello studio della sclerosi laterale amiotrofica).
- Prof. R. Romani, Università di Perugia (ghiandole esocrine di coleotteri carabidi).
- Prof. G. Di Bonaventura, Università di Chieti (ultrastruttura e morfologia di cellule batteriche).
- Prof. A. Di Giulio, Università Roma Tre (morfologia fine ed ultrastruttura di ghiandole ed organi di senso di coleotteri carabidi).

### Collaborazioni internazionali:

- Prof. W. Moore, University of Arizona (Tucson, Arizona, U.S.A.) (morfologia funzionale di coleotteri carabidi).
- Prof. E. Merivee, Estonian University of Life Sciences University, (Tartu, Estonia), (ultrastruttura e morfologia fine di organi sensoriali e tessuti nervosi in insetti, a complemento di analisi elettrofisiologiche).

## Attività di peer reviewer

1. Revisore per le riviste scientifiche internazionali: Journal of Morphology, Insects, Micron e Oriental Insects.

## Partecipazione a convegni nazionali ed internazionali

### -Presentazioni orali:

3. **Muzzi M.**, Di Giulio A. 2017. A morphological approach to study the evolution of explosive defensive systems in Coleoptera. 7th Congress of the Italian Society for Evolutionary Biology (SIBE), Roma, Italia, 28-31 Agosto 2017.

2. Di Giulio A., **Muzzi M.**, Romani R. 2015. How many bombardier beetle lineages? New morphological evidences support independent evolution of explosive defensive systems in

Coleoptera. 76° Congresso Nazionale Unione Zoologica Italiana, Viterbo, Italia, 15-18 Settembre 2015.

1. Di Giulio A., **Muzzi M.**, Romani R. 2013. The explosive defensive system of paussine and brachinine bombardier beetles (Coleoptera Carabidae): comparative morphology and ultrastructure. XVIth European Carabidologists meeting. Abstract Book. Praga, Repubblica Ceca, 22-27 Settembre 2013.

-Poster:

7. Marinaccio, J., Micheli, E., Udroui, I., Baranzini, N, Grimaldi, A., Di Nottia, M., Carrozzo, R., Moreno, S., **Muzzi, M.**, Sgura, A. TERT role in response to oxidative stress: a putative player into mitochondria. EMBO Workshop: Telomere function and evolution in health and disease, Troia, Portogallo, 26 Settembre-1 Ottobre 2022.

6. Marioli, C, **Muzzi, M.** Colasuonno, F., Magliocca, V., Bertini, E., Tartaglia, M., Compagnucci, C., Moreno, S. Increased Apoptotic Cell Death in Riboflavin Transporter Deficiency. BraYn 5th Brainstorming Research Assembly for Young Neuroscientists. Roma, Italia, 28-30 Settembre 2022.

5. Marioli, C, **Muzzi, M.** Colasuonno, F., Magliocca, V., Bertini, E., Tartaglia, M., Compagnucci, C., Moreno, S. Induced pluripotent stem cells and derived motor neurons as in vitro model for neurodegenerative diseases: new insights into Riboflavin Transporter Deficiency. Gargnano, Italia 5-7 Giugno.

4. Marioli, C., Fiorucci, C., Colasuonno, F., Magliocca, V., **Muzzi, M.**, Bertini, E., Tartaglia, M., Compagnucci, C., Moreno, S. Increased apoptotic cell death in a pediatric form of neurodegeneration associates with mitochondrial abnormalities. Program No. P294.01. 2021 Neuroscience Meeting Planner. Society for Neuroscience, 2021. Online.

3. Mancini, E., **Muzzi, M.**, Di Giulio, A., Fratini, E., Cervelli, M., Mariottini, P., Lombardo, F., Persichini, T., Gisoni, S., Gasperi, T., Bologna, M.A. Cantharidin in blister beetles: from biology to biotechnology. 80° Congresso Nazionale Unione Zoologica Italiana, Roma, Italia, 23-26 Settembre 2019.

2. Colasuonno F., **Muzzi M.**, Borghi R., Niceforo A., Compagnucci C., Di Giulio A., Moreno S. 2017. Use of focused ion beam/scanning electron microscopy (FIB/SEM) to study senescent features of pluripotent stem cells. Biophysics@Rome2017, CNR, Roma, Italia, 18-19 Maggio 2017.

1. Pompilio, A., Crocetta, V., Galardi, G., Geminiani, C., Verginelli, F., **Muzzi, M.**, Di Giulio, A., Di Bonaventura, G. Characterization of biofilm formation by *Myroides odoratimimus* isolated from post-traumatic calcaneal recurrent ulcer in diabetic patient. SIM 2017 45° Congresso nazionale della società italiana di microbiologia, Genova, Italia, 27-30 Settembre 2017.

-Abstract in rivista:

6. Marioli, C, **Muzzi, M.** Colasuonno, F., Magliocca, V., Bertini, E., Tartaglia, M., Compagnucci, C., Moreno, S. Increased Apoptotic Cell Death in Riboflavin Transporter Deficiency. BraYn 5th Ferrara, Giovanni. "Abstracts of the Fifth Brainstorming Research Assembly for Young Neuroscientists (BraYn), Italy, 28–30 September 2022.". Neurology International (2023), 15(1), 415-496.
5. Marioli, C, **Muzzi, M.** Colasuonno, F., Magliocca, V., Bertini, E., Tartaglia, M., Compagnucci, C., Moreno, S. Induced pluripotent stem cells and derived motor neurons as in vitro model for neurodegenerative diseases: new insights into Riboflavin Transporter Deficiency. Proceedings of the 67th Congress of the GEI-Italian Society of Development and Cell Biology (GEI-SIBSC)-Gargnano, 5-7 June 2022. *European Journal of Histochemistry*, 66(s1) (2022).
4. Scarparo G., Casale F., **Muzzi M.**, Di Giulio A. Description and comparison of external morphology and anatomy of four European species of *Microdon* genus (Diptera, Syrphidae, Microdontinae): from the egg to the pupa. ). First Student Meeting A.R.D.E. Roma. Monografie dell'Associazione Romana di Entomologia 1(2019): 39.
3. Mensa F.S., **Muzzi M.**, Spani F., Di Giulio A. The use of three-dimensional models for the study of phenotypic plasticity and functional anatomy of beetles of the genus *Paussus* (Coleoptera: Carabidae: Paussinae). First Student Meeting A.R.D.E. Roma. Monografie dell'Associazione Romana di Entomologia 1(2019): 23.
2. Niceforo A., Colasuonno F., **Muzzi M.**, Borghi R., Di Giulio A., Bertini E, Moreno S., & Compagnucci C., 2017. Using induced pluripotent stem cells (iPSCs) to study a rare human developmental disease associated with riboflavin deficiency. Proceedings of the 63rd Congress of the Italian Embryological Group (GEI), *European Journal of Histochemistry*, 61/suppl.1: 2.
1. Colasuonno F., **Muzzi M.**, Borghi R., Niceforo A., Fracassi A., Compagnucci C., Di Giulio A., Moreno S. 2017. Ultrastructural analysis of cell senescence features in induced pluripotent stem cells. Conference "Correlative Microscopy In Life And Materials Sciences" Rome, November 6-7, 2017 Rome, Italy. *European Journal of Histochemistry*, 61/suppl.4: 2.

## **Pubblicazioni**

24. Martines, A., Furfaro, G., Solca, M., **Muzzi, M.**, Di Giulio, A., & Rossi, S. (2023). An Analysis of Microplastics Ingested by the Mediterranean Detritivore *Holothuria tubulosa* (Echinodermata: Holothuroidea) Sheds Light on Patterns of Contaminant Distribution in Different Marine Areas. *Water*, 15(8), 1597. IF(2021) 3.530. (Q1)
23. Marinaccio, J., Micheli, E., Udriou, I., Di Nottia, M., Carrozzo, R., Baranzini, N., Grimaldi, A., Leone, S., Moreno, S., **Muzzi, M.**, & Sgura, A. (2023). TERT Extra-Telomeric Roles: Antioxidant Activity and Mitochondrial Protection. *International Journal of Molecular Sciences*, 24(5), 4450. IF(2021) 6.208. (Q1)

22. Montalesi, E., Cracco, P., Acconcia, F., Fiocchetti, M., Iucci, G., Battocchio, C., Orlandini, E., Ciccone, L., Nencetti, S., **Muzzi, M.**, Moreno, S., & Marino, M. (2023). Resveratrol Analogs and Prodrugs Differently Affect the Survival of Breast Cancer Cells Impairing Estrogen/Estrogen Receptor  $\alpha$ /Neuroglobin Pathway. *International Journal of Molecular Sciences*, 24(3), 2148. IF(2022) 6.208. (Q1)
21. Ruzzier, E., **Muzzi, M.**, Kadej, M., Battisti, A., & Di Giulio, A. (2022). *Trogoderma granarium* Everts, 1898 (Coleoptera: dermestidae) a model species to investigate hastisetae functional morphology. *The European Zoological Journal*, 89(1), 902-912. IF(2021): 1.699. (Q2)
20. Gianfreda, F., Bollero, P., **Muzzi, M.**, Di Giulio, A., Nicolai, E., & Canullo, L. (2022). The Effects of Ultrasonic Scaling and Air-Abrasive Powders on the Decontamination of 9 Implant-Abutment Surfaces: Scanning Electron Analysis and In Vitro Study. *Dentistry Journal*, 10(3), 36. IF(2021): 0.81 (Q2)
19. **Muzzi, M.**, Mancini, E., Fratini, E., Cervelli, M., Gasperi, T., Mariottini, P., Persichini, T., Bologna, M. A., & Di Giulio, A. (2022). Male Accessory Glands of Blister Beetles and Cantharidin Release: A Comparative Ultrastructural Analysis. *Insects*, 13(2), 132. IF(2021): 3.139. (Q1)
18. Mensa, F. S., **Muzzi, M.**, Spani, F., Tromba, G., Dullin, C., & Di Giulio, A. (2022). When the Utility of Micro-Computed Tomography Collides with Insect Sample Preparation: An Entomologist User Guide to Solve Post-Processing Issues and Achieve Optimal 3D Models. *Applied Sciences*, 12(2), 769. IF(2021): 2.838. (Q2)
17. Fratini, E., Salvemini, M., Lombardo, F., **Muzzi, M.**, Molfini, M., Gisondi, S., Roma, E., D'Ezio, V., Persichini, T., Gasperi, T., Mariottini, P., Di Giulio, A., Bologna, M. A., Cervelli, M., & Mancini, E. (2021). Unraveling the role of male reproductive tract and haemolymph in cantharidin-exuding *Lydus trimaculatus* and *Mylabris variabilis* (Coleoptera: Meloidae): a comparative transcriptomics approach. *BMC genomics*, 22(1), 1-24. IF(2021): 4.547. (Q1)
16. Di Giulio, A., **Muzzi, M.**, & Fattorini, S. (2021). Description and illustration of the discotelic larvae of *Pachyteles vignai* Deuve, 1999 and *P. digiulioi* Deuve, 1999 from the Otonga cloud forest (Ecuador). *Memorie della Società Entomologica Italiana*, 97, 47-81.
15. Gianfreda, F., Antonacci, D., Raffone, C., **Muzzi, M.**, Pistilli, V., & Bollero, P. (2021). Microscopic Characterization of Bioactivate Implant Surfaces: Increasing Wettability Using Salts and Dry Technology. *Materials*, 14(10), 2608. IF(2021): 3.748. (Q2)
14. **Muzzi, M.**, Di Giulio, A., Mancini, E., Fratini, E., Cervelli, M., Gasperi, T., Mariottini, P., Persichini, T., & Bologna, M. A. (2020). The male reproductive accessory glands of the blister beetle *Meloe proscarabaeus* Linnaeus, 1758 (Coleoptera: Meloidae): Anatomy and ultrastructure of the cantharidin-storing organs. *Arthropod Structure & Development*, 59, 100980. IF(2020): 2.010. (Q1)
13. Carnovale, F., Patini, R., Penarrocha, D., **Muzzi, M.**, Pistilli, R., & Canullo, L. (2020). Measurement of gap between abutment and fixture in dental conical connection implants. A focused

ion beam SEM observation. *Medicina Oral, Patología Oral y Cirugía Bucal*, 25(4), e449. IF(2020): 2.047. (Q3)

12. Canullo, L., Genova, T., Gross Trujillo, E., Pradies, G., Petrillo, S., **Muzzi, M.**, Carossa, S., & Mussano, F. (2020). Fibroblast Interaction with Different Abutment Surfaces: In Vitro Study. *International Journal of Molecular Sciences*, 21(6), 1919. IF(2020): 5.924. (Q1)

11. Merivee, E., Must, A., Nurme, K., Di Giulio, A., **Muzzi, M.**, Williams, I., & Mänd, M. (2020). Neural code for ambient heat detection in elaterid beetles. *Frontiers in Behavioral Neuroscience*, 14. IF(2020): 3.558. (Q1)

10. Canullo, L., Genova, T., Rakic, M., Sculean, A., Miron, R., **Muzzi, M.**, Carossa, S., & Mussano, F. (2019). Effects of argon plasma treatment on the osteoconductivity of bone grafting materials. *Clinical oral investigations*, 1-13. IF(2019): 2.812. (Q1)

9. **Muzzi, M.**, & Di Giulio, A. (2019). The ant nest “bomber”: Explosive defensive system of the flanged bombardier beetle *Paussus favieri* (Coleoptera, Carabidae). *Arthropod structure & development*, 50, 24-42. IF(2019): 1.836. (Q1)

8. **Muzzi, M.**, Moore, W., & Di Giulio, A. (2019). Morpho-functional analysis of the explosive defensive system of basal bombardier beetles (Carabidae: Paussinae: Metriini). *Micron*, 119, 24-38. IF(2019): 1.726. (Q2)

7. Nurme, K., Merivee, E., Must, A., Di Giulio, A., **Muzzi, M.**, Williams, I., & Mänd, M. (2018). Bursty spike trains of antennal thermo-and bimodal hygro-thermoreceptor neurons encode noxious heat in elaterid beetles. *Journal of thermal biology*, 72, 101-117. IF(2018): 1.902. (Q1)

6. Di Giulio, A., & **Muzzi, M.** (2018). Two novel approaches to study arthropod anatomy by using dualbeam FIB/SEM. *Micron*, 106, 21-26. IF(2018): 1.530. (Q3)

5. Pompilio, A., Galardi, G., Verginelli, F., **Muzzi, M.**, Di Giulio, A., & Di Bonaventura, G. (2017). *Myroides odoratimimus* Forms Structurally Complex and Inherently Antibiotic-Resistant Biofilm in a Wound-Like in vitro Model. *Frontiers in microbiology*, 8, 2591. IF(2017): 4.019 (Q1)

4. Colasuonno, F., Borghi, R., Niceforo, A., **Muzzi, M.**, Bertini, E., Di Giulio, A., Moreno, S., & Compagnucci, C. (2017). Senescence-associated ultrastructural features of long-term cultures of induced pluripotent stem cells (iPSCs). *Aging (Albany NY)*, 9(10), 2209. IF(2017): 5.179 (Q1)

3. Must, A., Merivee, E., Nurme, K., Sibul, I., **Muzzi, M.**, Di Giulio, A., Williams, I., & Tooming, E. (2017). Encoding noxious heat by spike bursts of antennal bimodal hygromoreceptor (dry) neurons in the carabid *Pterostichus oblongopunctatus*. *Cell and tissue research*, 368(1), 29-46. IF(2017): 3.043 (Q1)

2. Di Giulio, A., **Muzzi, M.**, & Romani, R. (2015). Functional anatomy of the explosive defensive system of bombardier beetles (Coleoptera, Carabidae, Brachininae). *Arthropod structure & development*, 44(5), 468-490. IF(2015): 1.563. (Q1)

1. Nurme, K., Merivee, E., Must, A., Sibul, I., **Muzzi, M.**, Di Giulio, A., Williams, I., & Tooming, E. (2015). Responses of the antennal bimodal hygroreceptor neurons to innocuous and noxious high temperatures in the carabid beetle, *Pterostichus oblongopunctatus*. *Journal of insect physiology*, 81, 1-13. IF(2015): 2.267. (Q1)

## **Copertine di riviste scientifiche**

1. **Muzzi, M.**, Mensa, F.S. 2019. Monografie dell'Associazione Romana di Entomologia (1).

## **Profilo bibliometrico**

ORCID: 0000-0002-6066-1463

SCOPUS ID: 56698213900

Numero di pubblicazioni indicizzate su Scopus: 22

H-Index: 8 (Scopus)

Numero totale di citazioni: 136 (da 110 documenti)

Impact Factor totale: 68,613 (calcolati in relazione all'anno della pubblicazione)

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Il sottoscritto, consapevole delle sanzioni penali, nel caso di dichiarazioni non veritiere e falsità negli atti, richiamate dall'art. 76 D.P.R. 445 del 28.12.2000;

Dichiara che le informazioni riportate nel presente CV sono veritiere e si rende disponibile a produrre la documentazione necessaria in caso di richiesta dei commissari.

## PROFESSIONAL CAREER

2022 – present	Research Fellow, University of Padova, Italy
2019 – 2022	Consultant, private sector, Ottawa, Canada
2010 – 2019	Systematic Assistant, Agriculture and Agri-Food Canada, Ottawa, Canada
2006 – 2011	Ph.D. student, University of Guelph, Canada
2003 – 2006	M.Sc. student, University of Alberta, Canada

## ACADEMIC QUALIFICATIONS

- **Ph.D. 2010:** Evolutionary Genetics and Systematics, Department of Integrative Biology, University of Guelph. Thesis title: Application of DNA barcoding in Lepidoptera Systematics.
- **M.Sc. 2006:** Systematics and Evolution, Dept. of Biological Sciences, University of Alberta. Thesis title: Phylogeny of Parnassiinae: Comparative analysis of DNA and morphology, with implications for the classification of the subfamily (Lepidoptera: Papilionidae).

## Research supervision and leadership experience

- Experience supervising technical staff and students in a variety of tasks

## Teaching merits

- Teaching Assistant during both MSc and PhD periods

## Awards and honours

- 2007: University of Guelph's Registrar's Entrance Scholarship for Graduate Students (February 2007) and Travel Grant (March 2007), awarded to graduate student based on merit and academic excellence. The travel grant is offered to assist students in attending conferences.
- 2009: CanaColl Foundation Curatorial Grant, Canadian National Collection (CNC), Ottawa, Ontario, Canada, awarded for sorting, curation and identification of a large section of uncured material of Lepidoptera collected during the 1970s by entomologists at the CNC from South America.
- 2010: Alberta Lepidopterists' Guild Research Bursary Award, presented for preparation of the report "Gnorimoschemini fauna of Alberta (Lepidoptera: Gelechiidae)", which was completed and delivered on March 2012, co-authored by J.-F. Landry.
- 2014: Visiting Taxonomist Grant, University of California Berkeley, United States of America. Grant awarded for research on microlepidoptera conducted at the Essig Museum of Entomology at University of California in 2014.
- 2020: Winner of the storytelling competition, The Living Archive: Best extinction story in the Fiji category. <https://www.extinctionstories.org/2020/06/17/the-coconut-moth-of-fiji/>

## Other key academic merits

- 2023: Guest Editor, MDPI *Diversity*, special issue: "Speciation, Phylogenetics and Taxonomy of Lepidoptera": [https://www.mdpi.com/journal/diversity/special\\_issues/199D83H82A](https://www.mdpi.com/journal/diversity/special_issues/199D83H82A)
- 2023: "A Cultural History of Insects" (6-volume set), associate editor (with chief editor Gene Kritsky) of volume II: A Cultural History of Insects in the Medieval Age. Published by Bloomsbury (England). Currently in press: <https://blackwells.co.uk/bookshop/product/A-Cultural-History-of-Insects-by-Gene-Kritsky->



[editor/9781350003217](https://www.mapress.com/zt/Lepidoptera)

- 2022-now: [associate] editor (Section Lepidoptera), *Zootaxa*, responsible editor for articles on microlepidoptera of the Middle East and Central Asia. <https://www.mapress.com/zt/Lepidoptera>
- 2014: External examiner, M.Sc. defense, Karen-Chia Huey-Min, Title of the thesis: "Exploring the diversity of butterflies (Lepidoptera) at different elevations in genting highlands and the validity of graphium species in peninsular Malaysia". Institute of Biological Sciences, University of Malaya, Kuala Lumpur, Malaysia. A pdf of this thesis is available online.
- 2013: Invited speaker, Ottawa Entomology Club, Ottawa, Ontario, Canada, 2013. Title of presentation: "Butterflies in human history, art and culture". Entire presentation is available online: <https://vimeo.com/707518176>
- 2018–2019: Elected vice-president, The Lepidopterists' Society, <https://www.lepsoc.org>
- 2018: External examiner, PhD defense, Andrew D. Young, Carleton University, Title of the thesis: "Systematics of lower Cyclorrhaphan Diptera, with an emphasis on Syrphidae". Carleton University, Ottawa, Ontario, Canada.
- 2018: Invited speaker, Yukon Science Institute, Whitehorse, Yukon Territory. Title of presentation: "Micro-moths: Getting to know them through DNA barcoding".
- 2018: Chair, organizer, programme coordinator, and session moderator of the 67th Lepidopterists' Society annual meeting, Ottawa, Canada, 2018.
- 2011-2020: subject editor and member of the editorial board, *Nota Lepidopterologicae*, responsible for articles with content that pertained to DNA barcoding, phylogenetics and zoogeography of Lepidoptera. *Nota Lepidopterologicae* is a Pensoft publication: <https://nl.pensoft.net/>
- 2003: Organizer, program assistant, and participant in the 52nd Lepidopterists' Society annual meeting, Olds, Alberta.
- 1998-2001: Scientific advisor of Iran's National Biodiversity Strategy and Action Plan (NBSAP), member of the drafting group of the First (2000) and the Second (2001) National Report for the Convention on Biological Diversity (CBD).
- (Over the years) Referee for \*Many\* scientific publications (too many to list ...)

#### CURRENT INTERESTS

- Systematics and taxonomy, evolution, speciation, biological diversity, genomics, phylogenetic analysis using molecular and morphological data, DNA sequence analysis
- Biocultural diversity, cultural entomology, presence and role of insects in human cultures past and present

#### EDITORIAL BOARDS AND PEER REVIEW OF SCIENTIFIC PAPERS

2023	Guest Editor, MDPI <i>Diversity</i> Special Issue: "Speciation, Phylogenetics and Taxonomy of Lepidoptera"
2023-present	Editor, <i>Journal of Insect Biodiversity and Systematics</i>
2022-present	Editor (Lepidoptera section), <i>Zootaxa</i>
2011-2019	Member of Editorial Board and Subject Editor, <i>Nota Lepidopterologicae</i>

**FORMATO EUROPEO  
PER IL CURRICULUM  
VITAE**



**ISTRUZIONE E  
FORMAZIONE**

**TITOLO DI STUDIO**

2019 -2023

Dottorato Conseguito il 27/04/2023 con tesi “Geographic variation, allometry, and sexual dimorphism explored in the skull of the wide-ranging *Lutra lutra*. A 3D geometric morphometric approach” in Ecologia e Territorio, presso l’Università Degli Studi del Molise. Tutor Anna Loy.

febbraio 2016/ luglio 2017

Master Interateneo (Università di: Parma, Insubria, Pavia, Sassari e Firenze) in Gestione e Conservazione dell'Ambiente e della Fauna. Con stage presso l’Università del Molise in collaborazione con il Parco Nazionale del Cilento, Vallo di Diano e Alburni; componente del gruppo di ricerca sul tema: monitoraggio dei mesocarnivori nell’area del parco, in particolare della puzzola europea (*Mustela putorius*). Responsabile scientifico professoressa Anna Loy. *Voto 110/110*

settembre 2014/settembre 2015

Master Universitario in “Zoologia” con tesi “GEOSPATIAL PATTERNS IN LARGE CARNIVORE ATTACKS ON HUMANS” – relatori: Prof. Vincenzo Penteriani, Prof. Jose Vicente Lopez. Presso Universidad Complutense di Madrid (Spagna). *Voto 6,30/10*

Laurea di terzo livello (laurea magistrale) del quadro spagnolo delle qualifiche per l'istruzione superiore (MECES) corrisponde al livello 7 del quadro europeo delle qualifiche (European Qualifications Framework), equivalente alla laurea magistrale

febbraio 2014

Laurea Triennale (classe di laurea L-32) in “Scienze e Tecnologie per la Natura e l'Ambiente”, con tesi “VERTEBRATI ALLOCTONI SUL TERRITORIO ITALIANO” – relatore: Prof. Pasquale Raia.

Presso Università di Napoli Federico II. *Voto 96/110*

**PERIODO ALL'ESTERO PER IL DOTTORATO**

11/10/2021 a 11/4/2022

National History Museum (NHM) di Londra, tutor Anjali Goswami ([a.goswami@nhm.ac.uk](mailto:a.goswami@nhm.ac.uk)). Elaborazione di modelli 3D dei crani di lontra utilizzando scanner di superficie, analisi della variabilità della forma del cranio attraverso tecniche di morfometria geometrica

**CORSI DI FORMAZIONE FREQUENTATI DURANTE IL DOTTORATO**

GIS per il risk management  
Software R corso base  
Proprietà intellettuale  
Academic English

Filosofia della comunicazione  
Finanziamento della ricerca  
Valutazione della ricerca

#### **CULTORE DELLA MATERIA Presso L'Università degli studi del Molise**

2019/20220 Strumenti GIS per la Gestione e Conservazione della fauna  
Ecologia Animale  
Zoologia  
Zoologia ed Ecologia dei vertebrati

2020/2021 Zoologia ed Ecologia dei vertebrati  
Zoologia

2021/2022 Gestione e Conservazione della Fauna  
Zoologia

#### **CORRELATORE TESI DI LAUREA**

2022/2023 Correlatore della tesi Magistrale: "Variazione Morfologica Del Cranio Di Lontra Euroasiatica Nelle Popolazioni Svedesi" –

#### **ESPERIENZE LAVORATIVE E COLLABORAZIONI SCIENTIFICHE**

12/05/2022 a 12/02/2023 Collaborazione come Biologo con The Pennsylvania State University. Elaborazione di modelli 3D dell'endocast dell'orso bruno e analisi della variabilità della forma attraverso tecniche di morfometria geometrica

Collaborazione come Biologo con la società Kayla Nature srls, impegnato nei seguenti progetti

Maggio 2022 e Aprile 2023

Febbraio 2021 e Aprile 2022

Febbraio 2023

Ottobre 2023

Giugno 2020, Agosto 2020, Maggio 2021, Aprile 2022, Marzo 2023

4 Ottobre 2020

- Wolfnext – Parchi a sistema per il futuro del Lupo in Italia. Elaborazione piano monitoraggio e controllo/elaborazione dati fototrappolaggio.
- Monitoraggio della nutria (*Myocastor coypus*) nel Parco Nazionale del Cilento, Vallo di Diano e Alburni. Elaborazione modelli di distribuzione potenziale della specie (SDM model), Elaborazione piano di monitoraggio (tramite Qgis), e controllo/elaborazione dati fototrappolaggio
- Impatto della linea elettrica "Sorgente-Rizziconi" (ME) sull'avifauna. Elaborazione dati.
- Impatto della linea elettrica the "Nuova Stazione Elettrica di P. Torres 2" (SS) sull'avifauna. Elaborazione dati.
- Impatto della linea elettrica the "Benevento-Pontelandolfo" (BN) sull'avifauna. Elaborazione piano monitoraggio (tramite Qgis), elaborazione dati, transetti carcasse avifauna, installazione e elaborazione dati dei dispositivi per il monitoraggio acustico dell'avifauna, nello specifico gli audimotoh.
- Organizzazione dell'evento "BioBlitz: the biodiversity of Agnano" in occasione dell'evento WWF Italia "Urban Nature"

1/6/2018 a 31/12/2018 **Biologo presso la società Biosfera Consultoría Medioambiental (Oviedo, Spagna), Responsabile: Ángel Fernández - González (angelfg@biosfera.es) impegnato nei progetti di**

- Traslocazione e Radiotracking del desman Iberico (*Galemys pyrenaicus*) nella provincia di Zamora (Spagna)
- Caratterizzazione dell'habitat e monitoraggio del desman Iberico (*Galemys pyrenaicus*) nella provicia di Burgos (Spagna)
- Cattura e raccolta di dati genetici del desman Iberico (*Galemys pyrenaicus*) nella provincia di Avila (Spagna)
- Monitoraggio del lupo (*Canis lupus*) tramite fototrappolaggio e Wolf-

	<ul style="list-style-type: none"> <li>Howling nell'area del fiume Tamega (Portogallo)</li> <li>• Impatto delle infrastrutture stradali e monitoraggio degli anfibi nella zona del fiume Tamega (Portogallo)</li> </ul>
1/1/2018 a 31/5/2018	Stage "Garanzia giovani" presso UMIB – Unidad Mixta de Investigación en Biodiversidad, progetto ibernazione dell'orso bruno ( <i>Ursus arctos</i> ) e studio dei movimenti delle femmine con i piccoli, in collaborazione con Biosfera Consultoría Medioambiental(Oviedo, Spagna), tutor Vincenzo Penteriani (v.penteriani@csic.es)
7/11/2017 a 9/11/2017	Stage di formazione presso il CIBIO (Research Centre in Biodiversity and Genetic Resources) di Lisbona, progetto road ecology puzzola, Elaborazione modelli di distribuzione potenziale della specie e modelli di rischio roadkills , con supervisore Rafael Barrientos (rbarrientos@ucm.es)
1/03/2017 a 1/09/2017	Tirocinio e Tesi di Master: Monitoraggio dei carnivori tramite l'utilizzo delle fototrappole nel parco Nazionale del Parco Nazionale del Cilento, Vallo di Diano e Alburni tramite l'utilizzo di fototrappole
<b>ALTRI CORSI ED ESPERIENZE DI FORMAZIONE</b>	
12/04/2023	Corso e attestator patentino droni <i>A1/A3 Course &amp; Examination - UAS Remote Pilot Open Category</i>
	Formazione Lavoratori Rischio Alto
18 e il 19/01/2023	Workshop Environmental DNA: a new powerful tool for monitoring biodiversity
26/04/2022 a 29/04/2022	Corso ISPRA: Operatore monitoraggio nazionale del lupo
22/01/2021 a 22/02/2022	Qualifica di Rilevatore IWC ISPRA (Censimenti invernali degli uccelli acquatici, International WaterbirdCensus).
2019	Tour leader nel viaggio alla scoperta della natura in Grecia, organizzato dalla società K'ayla Nature
21/05/2018 a 28/05/2017	
	Corso "Introduzione all'erpetologia" organizzato dall'associazione ARDEA (Associazione per la Ricerca, la Divulgazione e l'Educazione Ambientale).
15/03/2017 a 31/05/2017	Censimento del cervo al bramito, nel Parco nazionale delle Foreste Casentinesi
22/09/2016	Volontariato presso stazione di inanellamento della Riserva di Ventotene
19/05/2015 a 22/05/2016	Corso di Statistica: "un approccio pratico all'analisi di dati biologici IIa Edizione" presso il Real Orto Botanico di Napoli, organizzato dalla associazione ARDEA (Associazione per la Ricerca, la Divulgazione e l'Educazione Ambientale).
17/11/2015 a 18/12/2015	Certificato di competenza del corso categoria B," Scienza degli animali da laboratorio" <u>Direttiva 2010/63/EU</u> , conseguito in data 18 dicembre 2014, presso Universidad Complutense di Madrid (Spagna).
2014	Vincitore della borsa di studio LLP/Erasmus presso Universidad di Granada (Spagna) – anno accademico 2011/2012.
2011/2012	Attività di conteggio in battuta del capriolo italico, organizzata dall'Ente Parco

- 2011 Nazionale del Gargano, nell'ambito del progetto Osservatorio naturalistico gestito dal Centro Studi Naturalistici onlus.
- 2010 Tirocinio Laurea Triennale: Partecipazione, settembre - ottobre 2010, al corso accademico di ornitologia e erpetologia della Facoltà di Scienze Biologiche della Universidad Nacional de la Amazonia Peruana. (Iquitos, Peru).
- 2010 Corso per Guida Naturalistica a cura del WWF, presso la Riserva Naturale dello Stato "Cratere degli Astroni" (Napoli), aprile/maggio 2010
- 2009 Corso Birdwatching organizzato da ASOIM (Associazione Studi Ornitologi Italia Meridionale), gennaio/maggio 2009.

## PUBBLICAZIONI

14 articoli; 225 citazioni; h-index 7

Published in international journals with peer review (SCI)

(#these authors contributed equally

\* corresponding author)

- Pontieri, F.; Russo, L.F#\*; Raia, P.; Loy, A. A Surprising Pattern of Sexual Dimorphism in the Eurasian Otter (*Lutra Lutra*) in Sweden. *Hystrix - Ital. J. Mammal.*
- Russo, L. F., Fernández-González, Á., Penteriani, V., Delgado, M. D. M., Palazón, S., Loy, A., & Di Febbraro, M. (2023). The Different Fate of the Pyrenean Desman (*Galemys pyrenaicus*) and the Eurasian Otter (*Lutra lutra*) under Climate and Land Use Changes. *Animals*, 13(2), 274.
- Russo, L. F., Meloro, C., De Silvestri, M., Chadwick, E. A., & Loy, A. (2022). Better sturdy or slender? Eurasian otter skull plasticity in response to feeding ecology. *Plos one*, 17(9), e0274893.

- Basile, M., Russo, L. F., Russo, V. G., Senese, A., & Bernardo, N. (2021). Birds seen and not seen during the COVID-19 pandemic: The impact of lockdown measures on citizen science bird observations. *Biological conservation*, 256, 109079.
- Mazzamuto, M. V., Su, H. J., Guidarelli, G., Preatoni, D., Russo, L. F., Loy, A., & Martinoli, A. (2021). Mandible morphology as a tool to investigate origin, adaptation and stress in invasive alien species: first insights into *Callosciurus erythraeus* (Rodentia: Sciuridae) in Europe. *The European Zoological Journal*, 88(1), 782-795.
- Russo, L. F., & Loy, A. (2020). Who am I? Testing I3S Contour on the facial mask of the Western polecat (*Mustela putorius*). *Hystrix, the Italian Journal of Mammalogy*, 31(1), 83-85.
- Russo, L. F., Barrientos, R., Fabrizio, M., Di Febbraro, M., & Loy, A. (2020). Prioritizing road-kill mitigation areas: A spatially explicit national-scale model for elusive carnivore. *Diversity and Distributions*, 26(9), 1093-1103.
- González-Bernardo, E., Russo, L. F., Valderrábano, E., Fernández, Á., Penteriani, V. (2020). Denning in brown bears. *Ecology and Evolution*.
- Penteriani V., Siew Te W., Lin May C., Yen Wah S., Crudge B., Broadis N., Bombieri G., Valderrábano E., Russo L.F., Delgado M.M. (2020) - Characteristics of sun bear chest marks and their patterns of individual variation. *Ursus*
- Brown bear attacks on humans: a worldwide perspective G. Bombieri & Russo L.F., et al., 2019
- Penteriani V., Bombieri G., Fedriani J.M., López-Bao, J.V., Garrote P.J., Russo L.F. and Delgado M.M. 2017. Humans as prey: coping with large carnivore attacks using a predator-prey interaction perspective. *Human-Wildlife Interactions*
- Bombieri G., Delgado M.M., Russo L.F., Garrote P.J., López-Bao J.V., Fedriani J.M. and Penteriani V. 2018. Patterns of wild carnivore attacks on humans in urban areas. *Scientific Reports*
- Zarzo-Arias A., Delgado M., Ordiz A., Díaz García J., Cañedo D., González M.A., Romo C., Vázquez García P., Bombieri G., Bettega C., Francesco Russo L., Cabral P., García González R., Martínez-Padilla J. and Penteriani V. 2018. Brown bear behaviour in human-modified landscapes: the case of the endangered Cantabrian population, NW Spain. *Global Ecology and Conservation*
- Russo, V. G., Russo, L. F., Coppari, L., & Notomista, T. (2018). First record of *Bombina variegata* (Linnaeus, 1758) in a cave environment. *Herpetology Notes*, 11, 967-969.

#### Book Section

Penteriani, V.; Bombieri, G.; del Mar Delgado, M.; Sharp, T.; Yamazaki, K.; Bargali, H.S.; Dharaia, N.; Jangid, A.K.; Sharma, R.K.; Lamichhane, B.R.; Russo, L. F., et al. Patterns of Bear Attacks on Humans, Factors Triggering Risky Scenarios, and How to Reduce Them. In *Bears of the World*; 2020; pp. 239–249 ISBN 9781108692571.

Autore della scheda sulla puzzola Europea (*Mustela putorius*) per l'Atlante dei Mammiferi italiani

Revisione schede puzzola Europea (*Mustela putorius*) lista rossa nazionale (IUCN)

#### Poster e Presentazioni a Conferenze

- Resultados preliminares del programa de translocación experimental de desmán ibérico (*Galemys pyrenaicus*) en la ZEC Riberas del Tera (Zamora) Conference: XIV CONGRESO SECEM (Sociedad Española para la Conservación y Estudio de los Mamíferos) At: Jaca, Spain, 2019
- Perfil ecológico y estado demográfico de las poblaciones de desmán ibérico (*Galemys pyrenaicus*) del sistema Central. Conference: III Congreso ibérico de restauración fluvial RESTAURARÍOS 2019, Murcia, Spain, 2019

- Brown bear attacks on humans: a worldwide overview. Conference: 26th International Conference on Bear Research & Management At: Ljubljana, Slovenia, 2018
- Skull shape differences in Eurasian otter as a response to differences in diet. Conference: XII Congresso Italiano di Teriologia, 2022
- Gourmet bears? Selection of fruit trees by the brown bear. Conference: The 27th IBA Conference At: Kalispell, Montana (USA), 2021
- A road risk map for the European polecat (*Mustela putorius*, Mammalia, Carnivora, Mustelidae) in Italy, Conference: IV Conferenza del Centro Studi per le Reti Ecologiche "Road Ecology experiences: research, planning and design for the ecological sustainability of infrastructures" At: Pettorano sul Gizio, 2017

### Report

- Bases para la creación de poblaciones satélite de desmán ibérico (*Galemys pyrenaicus*) en el sistema central como estrategia para su conservación y adaptación frente al cambio climático: desarrollo de un programa de reintroducción. Acción A1: actuaciones para la obtención de parámetros bio-demográficos en las poblaciones de desmán ibérico de la vertiente castellano leonesa del sistema central.
- Bases para la creación de poblaciones satélite de desmán ibérico (*Galemys pyrenaicus*) en el sistema central como estrategia para su conservación y adaptación frente al cambio climático: desarrollo de un programa de reintroducción. Acción A3 actuaciones para la determinación del área de ocupación, del tamaño poblacional y del grado de fragmentación de las poblaciones de desmán ibérico de la vertiente castellano leonesa del sistema central.
- Bases para la creación de poblaciones satélite de desmán ibérico (*Galemys pyrenaicus*) en el sistema central como estrategia para su conservación y adaptación frente al cambio climático: desarrollo de un programa de reintroducción. Acción A5 plan de adecuación de los cursos fluviales del parque nacional de la sierra de Guadarrama y de la sierra de Ayllón.
- Estudio para la mejora del conocimiento del área de distribución del desmán ibérico (*Galemys pyrenaicus*) en el sistema ibérico de Castilla y León. Informe final plan de adecuación de los cursos fluviales del parque nacional de la sierra de Guadarrama y de la sierra de Ayllón.
- programa de translocación experimental de desmán ibérico (*Galemys pyrenaicus*) y trucha común (*Salmo trutta*) en el río Castro (Zamora)
- Monitoraggio della nutria (*Myocastor coypus*) nel parco nazionale del Cilento, Vallo di Diano e Alburni febbraio/luglio 2022
- Indagini sulla distribuzione, stato di conservazione e rischio di investimento della puzzola europea (*Mustela putorius*) in Italia. 2 rapporto— accordo di ricerca tra il dipartimento bioscienze e territorio dell'Università del Molise e il Parco Nazionale del Cilento, Vallo di Diano e Alburni.

## **CAPACITÀ E COMPETENZE**

### **PERSONALI**

MADRELINGUA

**Italiano**

ALTRE LINGUA

**Spagnolo**

- Capacità di lettura  
eccellente.
- Capacità di scrittura  
buono
- Capacità di espressione orale  
eccellente

**Inglese**

- Capacità di lettura  
buono
- Capacità di scrittura  
buono
- Capacità di espressione orale  
buono

## **CAPACITÀ E COMPETENZE**

### **TECNICHE**

## **CAPACITÀ E COMPETENZE TECNICHE**

Ottime capacità nell'utilizzo nell' utilizzo di strumentazioni per il Radiotracking (VHF).

Ottime capacità nell'utilizzo nell' utilizzo di strumentazioni per il fototrappolaggio.

Ottime capacità nell'elaborazione di modelli SDM

Ottime capacità nell'utilizzo di tecniche specifiche per la cattura del desman iberico (*Galemys pyrenaicus*)

## **CAPACITÀ E COMPETENZE INFORMATICHE**

- Ottime capacità nell'utilizzo dei software: Agisoft, Meshlab, Checkpoints, Avizo
- Ottime capacità nell'utilizzo dei software del pacchetto Microsoft Office™, acquisite nel corso degli studi universitari.
- Ottime capacità nell'utilizzo del programma Q-gis.
- Ottime capacità nell'utilizzo del programma Maxent, acquisite durante il Master in Zoologia.
- Ottime capacità nell'utilizzo del programma R software.
- Conoscenze di base dei programmi Morphoj,
- Conoscenze di base dei programmi PAST, Minitab, acquisite durante il corso di statistica “*un approccio pratico all'analisi di dati biologici IIa Edizione*”.
- Ottime capacità nel campo della fotografia.

PATENTE O PATENTI

Patente B  
Patentino droni A1/A3



## **EDUCATION**

### ***Postdoc position***

JUNARY-JUNE 2023. Title: "Evolution under climate change". Supervisor Prof. Marko Mutanen (University of Oulu, Oulu, Finland).

JULY-DECEMBER 2016. Title: "Origin and evolution of *Pseudophilotes barbagiae* (Lepidoptera, Lycaenidae)". Supervisor Dr. Andrea Grill (University of Vienna, Vienna, Austria).

### ***Doctorate***

03 JUNE 2008. PhD in Evolutionary Biology and Ecology, University of Rome Tor Vergata (Rome, Italy). Title: "Phylogeography in *Parnassius apollo* (Lepidoptera, Papilionidae)". Supervisor: Prof. Valerio Sbordoni.

### ***Postgraduate Fellowship***

OCTOBER 2003. Title: "Molecular phylogeny of Antarctic Chironomidae" in University of Rome Tor Vergata (Rome, Italy).

### ***Master's***

20 NOVEMBER 2002. Graduated in Biological Sciences, grade 110/110 *cum laude*, University of Rome Tor Vergata (Rome, Italy). Experimental thesis entitled "Molecular phylogeny of *Dolichopoda* cave crickets (Orthoptera, Rhaphidophoridae)". Supervisors: Prof. Valerio Sbordoni and Prof. Giuliana Allegrucci.

### ***Training Course***

JULY 2013. Training course in Biodiversity Institute of Ontario (BIO, University of Guelph, Guelph, Canada).

FEBRARY 2003. Training course in Molecular Biology in Genoma Lab (Rome, Italy).

### ***Other titles***

20 JUNE 2014. Habilitation to teach Math and Science in the Middle School, grade 91/100, University of Rome Tor Vergata (Rome, Italy).

18 JULY 2013. Unipegaso University (Rome, Italy). Master's in science education.

DICEMBER 2003. Exams for admission to the biologist career (Esame di Stato), University of Rome Tor Vergata (Rome, Italy).

## **POSITIONS**

### ***Presently***

- Working like researcher in VisitANT program in University of Oulu
- Collaborating with V. Nazari and M. Mutanen (University of Oulu, Oulu, Finland) in a study on systematic and evolution of *machaon* group (Lepidoptera, Papilionidae) using collection specimens including rare and extinct specimens.
- Collaborating with Blanca Huertas and Dick Vane- Wright (Natural History Museum of London, London, UK) in a study on the systematic revision of the genus *Calinaga* and *Lohora* (Lepidoptera, Nymphalidae) using morphological and ancient DNA analyses.

**2014 -2018** Collaborating with Andrea Grill and Konrad Fiedler (University of Vienna, Vienna, Austria) in a study on the evolution of the butterfly genus *Pseudophilotes* (Lepidoptera: Lycaenidae), with a particular focus on the origin of the Sardinian endemic *P. barbagiae*.

**2012-2014** Collaborating with Prof. Valerio Sbordoni (University of Rome Tor Vergata) and Prof. Paul Hebert (University of Guelph, Guelph, Canada) in a study on Sino-Himalayan butterflies to have new insights on their evolution history and taxonomy through DNA barcode and nuclear genes.

**2010-2012** Studying the evolutionary history of the *Parnassius phoebus* complex in collaboration with Prof. V. Sbordoni and Felix Sperling (University of Alberta, Edmonton, Canada).

**2009-2010** Attending the Molecular Anthropology lab of Prof. Olga Rickards (University of Rome Tor Vergata, Rome, Italy) where the entire human mtDNA of African and South American individuals was sequenced.

**2007** Joining a scientific expedition to Patagonia for the production of a documentary on Darwin's travels in South America.

**2004-2008** Carrying out an independent research on the molecular phylogeny of Antarctic Ascidians by a DNA barcode approach, in the Antarctic National Research Project (P.N.R.A). I was responsible for both the morphological identification of samples and the implementation of new protocols for the extraction and amplification of DNA. This research led me to the development of protocols for the amplification of nuclear genes and some Antarctic species of medical interest were included in phylogenetic studies.

### **SCIENTIFIC REVIEWER FOR:**

Journal of Biogeography, Journal of Insect Conservation, Biological Journal of Linnean Society, Conservation Genetics, Journal of Molluscan Studies, Molecular Phylogenetics and Evolution, Oriental Insect.

### **MAIN AREAS OF RESEARCH**

Evolutionary Biology, Biogeography, Phylogeography, Substitution Rates, Molecular Biology, Conservation genetics, Taxonomy, Butterflies.

### **TECHNICAL SKILLS AND BIOINFORMATICS COMPETENCES**

Proficient in the use of molecular markers, in particular mitochondrial DNA sequences (COI gene), as well as phylogenetic reconstruction, phylogeographic and coalescent analysis. Considerable skill in the amplification and sequencing of DNA, in particular in dealing with relatively ancient and difficult samples and in designing new primers. Confident with phylogenetic analysis tools (RAxML, PAUP, Treefinder, MEGA, MrBayes), coalescent-based and other population genetics tools (Beast, IM, DUMBE, DNAsp, Arlequin, Network, TCS, Samova, Amova, Maxent). Confident with Barcode of Life Data System (BOLD) and Quantum Gis (QGIS).

### **SUPERVISION OF GRADUATE STUDENTS**

**2012-2013** 3 Bachelor's degree students in University of Rome Tor Vergata (Rome, Italy) at Prof. Sbordoni's Lab.

### **TEACHING ACTIVITIES**

During my Postdoctoral position at the University of Vienna (Vienna, Austria) and my PhD in University of Rome Tor Vergata (Rome, Italy) I was regularly involved in teaching (including oral exams and thematic lectures) within undergraduate modules.

### **LANGUAGES:**

Italian (parental)

English (fluent, spoken/written)

### **INVITED SPEAKER TO MEETINGS**

1. Todisco V. "Butterfly Multifauna Project". Training course in BIO (Biodiversity Institute of Ontario, University of Guelph, Guelph, Canada). July 2013 (Presentation).
2. Todisco V., Zakharov E., Wheat C., Gratton P., Sbordoni V., Sperling F. 2010. "Phylogeography in the *Parnassius phoebus* complex". 6th International Conference on the Biology of Butterflies (In Abstract Book page 72). Edmonton (Canada), June 29 - July 3 (Symposium).

### **PRIZES**

- Stand Alone, FWF Austrian fellowship with a project entitled "Biodiversity persistence under climate change: the role of niche evolution and species' performance". Supervisor Dr Jonas Eberle.
- Biodiverse Anthropocenes Research Programme (January - June 2023) with a project entitled "Evolution under climate change" in University of Oulu (Oulu, Finland). Supervisor Prof. Marko Mutanen.
- Synthesys Call 4 (July 2017) with a project entitled "Combining the invaluable source of Lepidoptera specimens in the Natural History Museum of London with the most recent methods for ancient DNA to have

new insights on *Calinaga* genus (Lepidoptera: Nymphalidae)” in Natural History Museum of London. Supervisor: Dr Blanca Huertas.

- Research Excellence in poster presentation. 6th International Barcode of Life Conference 2015 (University of Guelph, Guelph, Canada).

## **SCIENTIFIC PUBLICATIONS**

### ***Peer-Reviewed Journals***

1. Todisco V., Vodă R., Prosser P., Nazari V. 2020. Next Generation Sequencing-aided comprehensive geographic coverage sheds light on the status of rare and extinct populations of *Aporia* butterflies (Lepidoptera: Pieridae). Scientific Reports, 10:13970.
2. Todisco V., Grill A., Fiedler K., Gottsberger B., Dincă V., Vodă R., Lukhtanov V., Letsch H. 2018. Molecular phylogeny of the Palearctic butterfly genus *Pseudophilotes* (Lepidoptera: Lycaenidae) with focus on the Sardinian endemic *P. barbagiae*. BMC Zoology 3(4). DOI: 10.1186/s40850-018-0032-7
3. Todisco V., Nazari V., Hebert PDN. 2017. Corrigenda: Preliminary molecular phylogeny and biogeography of the monobasic subfamily Calinaginae (Lepidoptera, Nymphalidae). Zoosystematics and Evolution 93 (2): 255-264. doi: 10.3897/zse.93.10744. MITTEILUNGEN AUS DEM MUSEUM FÜR NATURKUNDE IN BERLIN, vol. 93, p. 297, ISSN: 1435-1935
4. Todisco V., Nazari V., Cesaroni D., Sbordoni V. 2017. Preliminary molecular phylogeny and biogeography of the monobasic subfamily Calinaginae (Lepidoptera, Nymphalidae). Zoosystematics and Evolution 93 (2) 2017, 255–264.
5. Todisco V., Fiedler K., Puliga E., Dinca V., Voda R., Grill A. 2015. The origin of the Sardinian Blue, *Pseudophilotes barbagiae* (Lepidoptera, Lycaenidae): Out-of-Europe or Out-of-African? In: Scientific abstracts from the 6th International Barcode of Life Conference. Genome 58(5): 288. DOI: iii, 10.1139/gen-2015-0095
6. Todisco V., Gratton P., Wheat C., Zakharov E., Sbordoni V., Sperling F. 2012. Mitochondrial phylogeography of the Holarctic *Parnassius phoebus* complex supports a recent refugial model for alpine butterflies. Journal of Biogeography, 39 (6): 1058-1072. doi:10.1111/j.1365-2699.2011.02675.x
7. Todisco V., Gratton P., Cesaroni D., Sbordoni V. 2010. Phylogeography of *Parnassius apollo*: hints on taxonomy and conservation of a vulnerable glacial butterfly invader. Biological Journal of the Linnean Society 101: 169–183. doi: 10.1111/j.1095-8312.2010.01476.x
8. Allegrucci G., Rampini M., Gratton P., Todisco V., Sbordoni V. 2009. Testing phylogenetic hypotheses for reconstructing the evolutionary history of Dolichopoda cave crickets in the eastern Mediterranean. Journal of Biogeography 36: 1785-1797. doi: 10.1111/j.1365-2699.2009.02130.x
9. Todisco V. 2008. Filogeografia in *Parnassius apollo*, Linnaeus, 1758 (Lepidoptera, Papilionidae). PhD Thesis.
10. Gratton P., Todisco V., Sbordoni V. 2006. Filogeografia comparata di *Parnassius apollo* e *P. mnemosyne*. Un contributo genetico-molecolare alla biogeografia dell'Appennino. Biogeographia, Vol. XXVII.

11. Allegrucci G., Carchini G., Todisco V., Convey P., Sbordoni V. 2006. A molecular phylogeny of antarctic Chironomidae and its implications for biogeographical history. *Polar Biology* 29 (4): 320-326. doi:10.1007/s00300-005-0056-7
12. Allegrucci G., Todisco V. and Sbordoni V. 2005. Molecular phylogeography of *Dolichopoda* cave crickets (Orthoptera, Rhaphidophoridae): A scenario suggested by mitochondrial DNA. *Molecular Phylogenetics and Evolution* 37: 153-164. doi:10.1016/j.ympev.2005.04.022
13. Allegrucci G., Todisco V., Sbordoni V., Carchini G. 2005. Progress in molecular phylogeny of Antarctic Chironomidae. In: P. Luporini and M. Morbidoni (eds.), "Proceedings of the fifth PNRA meeting on Antarctic Biology" 29-30 April 2004, Messina. Polarnet Technical Report, 1(2005): 58-62
14. Sbordoni V., Allegrucci G., Todisco V. 2004. Il genere *Dolichopoda* in Sardegna: filogenesi molecolare e ipotesi sulla evoluzione del popolamento. *Studi Trentini di Scienze Naturali, Acta Biologica* 81: 103-111. ISSN 0392-0542

### ***Congress participation***

1. Todisco V., Nazari V., Mutanen M. So familiar, yet so unknown: Taxonomy and DNA barcoding of the Palearctic *Papilio machaon* species-group. XXII European Congress of Lepidopterology, Laulasmaa, Estonia. June 6 - 11, 2022.
2. Todisco V. Il genere *Papilio* in Italia. 1st ALI congress. 15- 17 October 2021, Tarsia (CS), Italy.
3. Todisco V., Grill A. In search of the evolutionary origin of the endemic Sardinian blue butterfly. XXIIth European Congress of Lepidopterology. 3-7 June 2019, Campobasso, Italy (Presentation).
4. Todisco V., Vodà R., Prosser P., Nazari V. Phylogeographic pattern of genetic variation in *Aporia crataegi* (Lepidoptera, Pieridae). XXIth European Congress of Lepidopterology. 3-7 June 2019, Campobasso, Italy (Presentation).
5. Todisco V. "Combining the invaluable source of Lepidoptera specimens in the Natural History Museum of London with the most recent methods for ancient DNA to have new insights on *Calinaga* genus (Lepidoptera: Nymphalidae)". Synthesys Seminar. 14 July 2017. Natural History Museum of London, London, UK.
6. Todisco V., Nazari V., Cesaroni D., Sbordoni V. 2017. Preliminary molecular phylogeny and biogeography of the monobasic subfamily Calinaginae (Lepidoptera, Nymphalidae). XXth European Congress of Lepidopterology. 24 April – 30 April 2017, Podgora, Croatia (Presentation).
7. Todisco V., Fiedler K., Puliga E., Dinca V., Voda R., Grill A. The origin of the Sardinian Blue, *Pseudophilotes barbagiae* (Lepidoptera: Lycaenidae): Out-of-Europe or Out-of-Africa? XIXth European Congress of Lepidopterology. 27 September – 02 October 2015, Radebeul, Germany (Presentation).
8. Todisco V., Fiedler K., Puliga E., Dinca V., Voda R., Grill A. The origin of the Sardinian Blue, *Pseudophilotes barbagiae* (Lepidoptera: Lycaenidae): Out-of-Europe or Out-of-Africa? 6th International Barcode of Life Conference 2015. 18-21 August 2015 (University of Guelph, Guelph, Canada) (Poster Presentation).
9. Sbordoni V., Deodati T., Todisco V., Cesaroni D. 2014. "Advances on the molecular systematics of Sino-Himalayan butterflies". The Butterfly Society of Japan, 2014 Annual Meeting. December 18-24 (Presentation).
10. Congress participation: "Biobutterfly 2014". Turku, Finland, August 11-14.
11. Todisco V. "Butterfly Multifauna Project". Training course in BIO (Biodiversity Institute of Ontario, University of Guelph, Guelph, Canada). July 2013 (Presentation).
12. Todisco V., Gratton P., Zakharov E., Wheat C., Sperling F., Sbordoni V. 2011. "New refugial model for alpine invertebrates: a case study of the *Parnassius phoebus* complex" (pag.23). IBS Early Career Conference, (Oxford, UK), September 23-25 (Presentation).

13. Todisco V., Zakharov E., Wheat C., Gratton P., Sbordoni V., Sperling F. 2010. "Phylogeography in the *Parnassius phoebus* complex". 6th International Conference on the Biology of Butterflies (In Abstract Book page 72). Edmonton (Canada), June 29 - July 3 (Symposium).
14. Congress participation: "Biodiversità Molecolare: concetti di base, tecnologie, applicazioni" (Rome, Italy), July 9-10, 2009.
15. Congress participation: "Il DNA Barcode: Progetto chiave per lo studio e le applicazioni della Biodiversità Molecolare" (Rome, Italy), July 2008.
16. Todisco V., Gratton P., Sbordoni V. 2007. "Primi dati sulla filogeografia di *Parnassius apollo* (Lepidoptera, Papilionidae)" (pag. 35). 68th Unione Zoologica Italiana (Lecce, Italy), September 24-27 (Presentation).
17. Todisco V., Sbordoni V. 2007. "Patterns of geographical variation and phylogeography in *Parnassius apollo*: a preliminary analysis" (pag. 147). 5th International Conference on the Biology of Butterflies (Frascati, Rome, Italy), July 1-7 (Poster presentation).
18. Gratton P., Todisco V., Sbordoni V. 2006. "Un contributo genetico-molecolare al popolamento dell'Appennino. Filogeografia comparata del *Parnassius apollo* e *mnemosyne*" (pag.22-23). Società Italiana Biogeografia (L'Aquila, Italy), September 6-9 (Presentation).
19. Allegrucci G., Todisco V., Rampini M. 2006. "Molecular phylogeography of the Eastern Mediterranean *Dolichopoda* cave crickets species: comparing different molecular dating methods" (pag 72-73). I Congresso SIBE & II Congresso dei Biologi Evoluzionisti Italiani (Firenze, Italy), September 4-7 (Presentation).
20. Allegrucci G., Todisco V., Rampini M., Sbordoni V. 2006. "Molecular phylogeny of *Dolichopoda* cave crickets: assessing the evolutionary history of the eastern mediterranean taxa" (pag.7). 10th International Congress on the Zoogeography and Ecology of Greece and adjacent regions (Patra, Greece), June 26-30 (Presentation).
21. Allegrucci G., Todisco V. 2004. "Filogenesi molecolare negli ortotteri cavernicoli del genere *Dolichopoda*, indagata attraverso due geni mitocondriali" (pag.107). 65th Unione Zoologica Italiana (Taormina (CT), Italy), September 21-25 (Poster presentation).
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