

## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **Giuliana Allegrucci**

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Nationality Italian

**Occupational field** **Biology, Zoology, Population Genetic Structure, Phylogeny, Phylogeography**

### Work experience

Dates 2007-present

Occupation or position held Associate Professor of Zoology (BIO/05) at Department of Biology – University of Rome Tor Vergata

1984-2007  
Researcher in Zoology at Department of Biology – University of Rome Tor Vergata

Name and address of employer University of Rome Tor Vergata, Department of Biology  
Via della Ricerca Scientifica snc, 00133 ROMA

Teaching activities 1993-present

GA was responsible for several teaching courses concerning zoological disciplines. Currently she holds the course in Zoology for the triennial degree in Biological Science and the course in Phylogeny and Molecular Clock for the master degree in Evolutionary Biology, Ecology and applied Anthropology.

Academic positions 2009-2016

Coordinator of the Erasmus Committee of the degree course in Biological Sciences and of Erasmus mundus program (Techno Project) at Tor Vergata University.

2011-march 2017

Coordinator of the PhD school in Evolutionary Biology and Ecology at Tor Vergata University.

<b>Research activities</b>	<p>Scientific interest has been focused on microevolutionary studies in animal populations, with particular attention to the genetic structure of populations analyzed at different geographic scales and by different molecular tools. Different molecular markers and other character sets have been used to improve empirical estimation of evolutionary parameters such as selective values, gene flow, and rates of cladogenetic events. Present scientific interest is focused on phylogenetic and phylogeographic studies, carried out by using molecular markers, and to the study of molecular clocks to date speciation events especially in organisms adapted to extreme environments, such as the cave crickets of the genus <i>Dolichopoda</i> and the Antarctic midges. Since 2009, GA started to study the ecological role of the Weddell seal in Baia Terranova, analyzing both the diet, through the isotopic analysis, and the genetic variability, through mitochondrial and nuclear genetic markers, under the aegis of the PNRA.</p> <p>GA has published 74 papers, most of them in international journals with high Impact factor. She took part in different zoological and speleological expedition in Italy, Greece and Galapagos islands.</p>
<b>Technical skills and bioinformatics competences</b>	<p>DNA extraction, PCR amplification, cloning, Sanger DNA sequencing and fragment analysis with automated sequencers.</p> <p>Confident with standard phylogenetic analysis tools as PAUP, Treefinder, MEGA, Mr Bayes, Beast and with population genetic analysis tools as Genetix, DNAsp, Genepop, Migrate, Fstat, Arlequin, Beast coalescent analysis.</p>
<b>Learned societies</b>	<p>Unione Zoologica Italiana          Società Italiana di Ecologia          Society for the study of Evolution          European Society of Evolutionary Biology</p>
<b>Research programs</b>	<p>GA collaborated to the creation and implementation of several research projects since 1984 funded by different funding agencies. Past or present scientific coordinator of some of them. In particular,</p> <p>PRIN 2009 (source funding: Italian Ministry of Education, University and Research)          Phylogeography of the Palearctic Lepidoptera, associated with the development of predictive and descriptive climate models. Principal Investigator: Prof. Valerio Sbordoni e dal 4/3/2013 Prof. Donatella Cesaroni.</p> <p>PNRA 2009 /PdR2009/A1.02 (source funding: Italian Ministry of Education, University and Research)          “Phylogeography and climate change in populations of Belgica antarctica (Diptera, Chironomidae) from Maritime Antarctica” Principal investigator: Prof. Giuliana Allegrucci</p> <p>PNRA 2013 / PdR2013/AZ1.01          “Adaptations of a top predator in the Antarctic: population genetic structure and trophic niche of the Weddell seals in Terra Nova Bay” Principal investigator: Prof. Giuliana Allegrucci</p> <p>ISPRA 2015          “Genetic characterization and phylogeography of the European woodcock, <i>Scolopax rusticola</i>”          Principal Investigator: Prof. Giuliana Allegrucci</p>

## MAIN PUBLICATIONS (the last 15 years)

1. Fabiani A, Gratton P, Zappes I, Seminara M, D'Orsi A, Sbordoni V, Allegrucci G (2017). Investigating the genetic structure of trout from the Garden of Ninfa (central Italy): Suggestions for conservation and management. FISHERIES MANAGEMENT AND ECOLOGY, ISSN: 0969-997X, doi: DOI10.1111/fme.12259
2. Allegrucci G, Ketmaier V, Di Russo C, Rampini M, Sbordoni V, Cobolli M (2017). Molecular phylogeography of *Troglophilus* cave crickets (Orthoptera, Rhaphidophoridae): A combination of vicariance and dispersal drove diversification in the East Mediterranean region. JOURNAL OF ZOOLOGICAL SYSTEMATICS AND EVOLUTIONARY RESEARCH, ISSN: 1439-0469, doi: 10.1111/jzs.12172
3. Zappes IA, Fabiani A, Sbordoni V, Rakaj A, Palozzi R, Allegrucci G (2017). New data on Weddell seal (*Leptonychotes weddellii*) colonies: A genetic analysis of a top predator from the Ross Sea, Antarctica. PLoS ONE, vol. 12, ISSN: 1932-6203, doi: <https://doi.org/10.1371/journal.pone.0182922>
4. Latella L, Sbordoni V, Allegrucci G (2017). Three new species of *Bathysciola* Jeannel, 1910 (Leiodidae, Cholevinae, Leptodirini) from caves in Central Italy, comparing morphological taxonomy with molecular phylogeny. INSECT SYSTEMATICS & EVOLUTION, ISSN: 1399-560X, doi: 10.1163/1876312X-00002175
5. Gratton P, Trucchi E, Trasatti A, Riccarducci G, Marta S, Allegrucci G, Cesaroni D, Sbordoni V (2016). Testing Classical Species Properties with Contemporary Data: how 'Bad Species' in the Brassy Ringlets (*Erebia tyndarus* complex, Lepidoptera) Turned Good. SYSTEMATIC BIOLOGY, vol. 65, p. 292-303, ISSN: 1063-5157, doi: 10.1093/sysbio/syv087
6. Allegrucci G, Sbordoni V, Cesaroni D (2015). Is radon emission in caves causing deletions in satellite DNA sequences of cave-dwelling crickets? PLoS ONE 10(3): e0122456. <https://doi.org/10.1371/journal.pone.0122456>
7. Allegrucci G, Massa B, Trasatti A, Sbordoni V (2014). A taxonomic revision of western *Eupholidoptera* bush crickets (Orthoptera: Tettigoniidae): testing the discrimination power of DNA barcode. SYSTEMATIC ENTOMOLOGY, vol. 39, p. 7-23, ISSN: 0307-6970, doi: doi: 10.1111/syen.12031
8. Gustavino B, Meschini R, Franzetti G, Gratton P, Allegrucci G, Sbordoni V (2014). Genotoxicity testing for radon exposure: *Dolichopoda* (Orthoptera, Rhaphidophoridae) as potential bio-indicator of confined environments. CURRENT ZOOLOGY, vol. 60, p. 299-307, ISSN: 1674-5507
9. Allegrucci G, Rampini M, Di Russo C, Lana E, Cocchi S, Sbordoni V (2014). Phylogeography and systematics of the westernmost Italian *Dolichopoda* species (Orthoptera, Rhaphidophoridae). ZOOKEYS, vol. 437, p. 1-23, ISSN: 1313-2989, doi: doi: 10.3897/zookeys.437.7917
10. Gratton P, Allegrucci G, Sbordoni V, Gandolfi A (2014). The evolutionary jigsaw puzzle of the surviving trout (*Salmo trutta* L. complex) diversity in the Italian region. A multilocus Bayesian approach. MOLECULAR PHYLOGENETICS AND EVOLUTION, vol. 79, p. 292-304, ISSN: 1055-7903, doi: 10.1016/j.ympev.2014.06.022
11. Gratton P, Allegrucci G, Gandolfi A, Sbordoni V (2013). Genetic differentiation and hybridization in two naturally occurring sympatric trout *Salmo* spp. forms from a small karstic lake. JOURNAL OF FISH BIOLOGY, vol. 82, p. 637-657, ISSN: 0022-1112, doi: 10.1111/jfb.12022.
12. Allegrucci G, Carchini G, Convey P, Sbordoni V (2012). Evolutionary geographic relationships among Orthocladine chironomid midges from maritime Antarctic and sub-Antarctic islands. BIOLOGICAL JOURNAL OF THE LINNEAN SOCIETY, vol. 106, p. 258-274, ISSN: 0024-4066, doi: 10.1111/j.1095-8312.2012.01864.x
13. Sbordoni V, Allegrucci G, Cesaroni D (2012). Population structure. In: Encyclopedia of Caves, 2nd Edition. p. 608-618, Elsevier Inc. Academic Press, ISBN: 978-0-12-383832-2
14. Allegrucci G, Trucchi E, Sbordoni V (2011). Tempo and mode of species diversification in *Dolichopoda* cave crickets (Orthoptera, Rhaphidophoridae). MOLECULAR PHYLOGENETICS AND EVOLUTION, vol. 60, p. 108-121, ISSN: 1055-7903, doi: 10.1016/j.ympev.2011.04.002
15. Allegrucci G, Trewick S, Fortunato A, Carchini G, Sbordoni V (2010). Molecular phylogeny and historical biogeography of cave crickets from the Southern end of the world. JOURNAL OF ORTHOPTERA RESEARCH, vol. 19, p. 121-130, ISSN: 1082-6467
16. 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, vol. 36, p. 1785-1797, ISSN: 0305-0270, doi: 10.1111/j.1365-2699.2009.02130.x
17. Allegrucci G, Carchini G, Todisco V, Convey P and Sbordoni V (2006). A molecular phylogeny of antarctic chironomidae and its implications for biogeographical history. POLAR BIOLOGY, vol. 29, p. 320-326, ISSN: 0722-4060
18. Allegrucci G, Todisco V, Sbordoni V (2005). Molecular phylogeography of *Dolichopoda* cave crickets (Orthoptera, Rhaphidophoridae): A scenario suggested by mitochondrial DNA. MOLECULAR PHYLOGENETICS AND EVOLUTION, vol. 37, p. 153-164, ISSN: 1055-7903, doi: 10.1016/j.ympev.2005.04.022

19. Gratton P, Allegrucci G, Gallozzi M, Fortunato C, Ferreri F, Sbordoni V (2004). Allozyme and microsatellite genetic variation in natural samples of zebrafish, *Danio rerio*. JOURNAL OF ZOOLOGICAL SYSTEMATICS AND EVOLUTIONARY RESEARCH, vol. 42, p. 54-62, ISSN: 0947-5745, doi: 10.1046/j.0947-5745.2003.00240.x
20. Sbordoni V, Allegrucci G, Todisco V (2004). Il genere *Dolichopoda* in Sardegna: filogenesi molecolare e ipotesi sulla evoluzione del popolamento. STUDI TARENTINI DI SCIENZE NATURALI - ACTA BIOLOGICA, vol. 81, p. 103-111, ISSN: 0392-0542
21. Sbordoni V, Allegrucci G, Cesaroni D (2004). Insetti cavernicoli e farfalle: casi di studio sulla filogenesi molecolare e la microevoluzione. ATTI DELL'ACCADEMIA NAZIONALE ITALIANA DI ENTOMOLOGIA. RENDICONTI, p. 133-150, ISSN: 0065-0757
22. Allegrucci G (2003). Molecular Markers and Geographic Variation in Mediterranean Fish. In: Marine Biogeography of the Mediterranean sea: patterns and dynamics of biodiversity. BIOGEOGRAPHIA, vol. 24, p. 293-306, ISSN: 1594-7629
23. Weber A, Allegrucci G, Sbordoni V (2003). *Rhamdia laluchensis*, a new species of troglitic catfish (Siluriformes: Pimelodidae) from Chiapas, Mexico. ICHTHYOLOGICAL EXPLORATION OF FRESHWATERS, vol. 14, p. 273-280, ISSN: 0936-9902