

Metrics overview by Fonte Scopus¹ - 2025

Publications¹ (2004-2025): 60

Total citations¹: 2.149 citations by 1.418 documents

H index¹: 28

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Prof. Parrino Vincenzo, is an associate professor and awarded the degree in Biological Sciences on November 10th, 1995 at the University of Messina, discussing the thesis entitled “Neurons and paraneurons as secreting cells”.

Since the 1996/1997 academic year, after achieving his degree, he has continued the research activity in collaboration with scientists working in the Scientific (Comparative Anatomy and Cytology).

In March 1997 he awarded the qualification to exercise the profession of Biologist.

In 1998 he awarded a PhD position, with bursary, in the PhD of Environmental Sciences: Marine Environment and its Resources at the Department of Animal Biology and Marine Ecology at the University of Messina. During his doctorate, he focused on biomonitoring of brackish environments, using aquatic invertebrates and lower vertebrates as bioindicators, applying various biomarkers. This research was the subject of his PhD thesis, entitled “Characterization of some biological indices of stress in mugilides from brackish environments in natural and experimental condition”.

In 2003 he awarded a post-doctoral position for a four-year project entitled “Molecular, cytological and histopathological study of tissues of mugilides from the lakes of Ganzirri and Faro” (Italy).

In the 2004/2005 and 2005/2006 academic years, the Council of the Faculty of MM.FF.NN. Sciences conferred on him the role of Exerciser for the BIO/06 subjects (Comparative Anatomy and Cytology), and he also regularly participated, both as active member and substitute, into various Examination Committees, i.e. Cytology and Histology, Comparative Anatomy, Evolutionary Biology, Cytochemistry and Histochemistry.

In 2007, after evaluation, he achieved the position of Researcher for the (Comparative Anatomy and Cytology) at the Faculty of MM.FF.NN. Sciences at the University of Messina.

The Faculty of MM.FF.NN. Sciences conferred on him the courses of “Biotechnologies in Cytotoxicology” and “Biological indices of stress in aquatic environments” for the

Master Degree in Biology, and “Comparative Anatomy with laboratory activities” for the Bachelor Degree in Sciences of the Environment and Nature, and “Comparative Anatomy with laboratory activities” for the Bachelor Degree in Biological Sciences.

In 2013 he was nominated from the CdL of Sciences of the Environment and Nature as member of the Group of Re-exam, as well as member of the Equal Commission of the CdL in Biological Sciences.

He has been member of the Teaching Board of the PhD Course in “Biology and Cellular Biotechnologies”, which from the academic year 2013/2014 was integrated in the PhD course in “Applied Biology and Experimental Medicine” and “Veterinary Sciences, Biotechnological and Agricultural”.

Scientific activity

The research activity focuses on the study of the effects of the environmental stress on the respiratory epithelium and, in particular, on the neuroendocrine system of some teleostes and molluscs, inhabiting natural environments with different degrees of pollution, using immunohistochemical and biochemical approaches. To achieve a more complete understanding of the health status of polluted environments, he applies, in combination with histological and immunohistochemical investigations, a number of biomarkers by using spectrofluorimetric analysis for testing the mixed function monooxygenase system (MFO), the ethoxyresorufine (EROD) and monooxygenase benzopyrene (BPMO) and flow cytometry, representative of the main enzymatic activities, involved in the detoxification of environmental pollutants, hypoxia, environmental metabolomics, antioxidant defence system, neurotoxicity and lipid peroxidation. By applying spectrophotometric analysis, he measures some biomarkers of effect, as the activities of brain esterases (AChE), biomarkers of exposure, as the activities of blood esterases (BChE), or general biomarkers, as the Somatic Liver Index.

He participated to the following Research Programmes:

- project W1BIOMAR-A2, within the Project Memobiomar, Cluster "Marine Environment" (2001-2005), entitled Molecular and Cellular Methodologies relevant for the Ecophysiology, the Ecotoxicology and Biomonitoring of the Marine Environments.
- research project of the Regional Agency for Environmental Protection, ARPA Sicily, (2005-2006), entitled “Ecotoxicological Surveyings and biomonitoring on benthic macrofauna in polluted coastal environments of the region Sicily” (Italy).

- project PRIN 2007: “Biomonitoring of coastal marine environments: development and applications of new integrated cytochemical and molecular methodologies”.
- project PRIN 2011: “Systems Biology in the study of xenobiotic effects on marine organisms for evaluation of the environmental health status: biotechnological applications for potential recovery strategies”.
- PRIN 2020: “Impact of microplastics and associated contaminants on reproduction and development: a comparative and multidisciplinary study on mechanisms of action and protective strategies”.
- PRIN 2022: “Insect-based biotechnology for food waste valorization to produce novel protein sources and bioactive peptides for animal feed, quality and safety assessment – Hi-Prot”.
- PRIN PNRR 2022: Evaluation of the anti-inflammatory and antioxidant activity of collagen hydrolysates obtained from anchovy waste (*Engraulis encrasicolus*) on a murine model of rheumatoid arthritis.

EDITORIAL BOARD:

Turkish Journal of FISHERIES and AQUATIC SCIENCES

(<https://www.trjfas.org/static.php?id=3>)

Frontiers Physiology - Aquatic Physiology – Aquatic Physiology, Environmental Pollution, Nanotoxicology and Phytoremediation.

(<https://www.frontiersin.org/research-topics/9009/aquatic-physiology-environmental-pollution-nanotoxicology-and-phytoremediation>).

Animals — Open Access Journal - Special Issue “Feed Vegetable Integration and Nutraceuticals Effects in Fish: The Future of Aquaculture”

(https://www.mdpi.com/journal/animals/special_issues/Future_of_Aquaculture).

Journal of Chemistry - Subject Area - Food Chemistry – Issue “Phytochemicals in Farming Aquatic Animals and Plants (PHAQ).

(<https://www.hindawi.com/journals/jchem/si/174857/>)

EDITORIAL TEAM

Guest Editor:

Animals

Special Issue in Animals: Feed Vegetable Integration and Nutraceuticals Effects in Fish: The Future of Aquaculture

(<https://www.mdpi.com/journal/animals/editors#editorialboard>).

REVIEWER

Anatomia, Histologia, Embryologia; Animals; Antioxidants; Applied Sciences; Aquaculture; Biomedicines; Bulletin of Environmental Contamination and Toxicology; Comparative biochemistry and physiology; Fishes; Fish & Shellfish Immunology; Journal of food composition and analysis; Journal of Marine Science and Engineering; Journal of trace elements and minerals; Journal of Taibah University for Science; Science of the Total Environment; Microchemical journal; Microorganisms; Oceans; Regional studies in marine science; Science of the total environment; Vaccines; Water.

SCIENTIFIC PRODUCTION

1. Minutoli Roberta, Fazio Francesco, Granata Antonia, Aragona Francesca, **Parrino Vincenzo** - Pesticide and hydrocarbon toxicity in fish: effects on *Chelon labrosus* (Risso, 1827) along the northeastern Sicilian coast (Italy) evaluated by enzymatic biomarkers - JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH, PART B; Volume 60, Issue 4, p. 139 – 147 - <https://doi.org/10.1080/03601234.2025.2471203>; (2025).
2. Riolo Kristian, Franco Gianluca Antonio, Marino Ylenia, Ferreri Annamaria, Oliva Sabrina, **Parrino Vincenzo**, Savastano Domenico, Cuzzocrea Salvatore, Gugliandolo Enrico, Giannetto Alessia - Protein hydrolysates from *Hermetia illucens* trigger cellular responses to cope with LPS-induced inflammation and oxidative stress in L-929 cells - ANIMAL CELLS AND SYSTEMS, Volume 29, Issue 1, Pages 1 – 122025, ISSN 19768354; <https://doi.org/10.1080/19768354.2024.2442389>; (2025).

3. De Marco Giuseppe, Cristaldi Antonio, Eliso Maria Concetta, Oliveri Conti Gea, Galati Mariachiara, Billè Barbara, Terranova Mery, **Parrino Vincenzo**, Cappello Tiziana, Ferrante Margherita, Maisano Maria - Cellular pathway disturbances elicited by realistic dexamethasone concentrations in gills of mussel *Mytilus galloprovincialis* as assessed by a multi-biomarker approach - ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, <https://doi.org/10.1016/j.etap.2024.104598>; (2025).
4. Habib Syed Sikandar, Sawera Maqaddas, Fazio Francesco, Rim EL Amouri, Ghulam Serwar Shaikh, Abdur Rahim, Kaleem Khan, Javed Ullah, Mohamed Mohany, **Parrino Vincenzo**, Ahmed Al-Eman - Evaluation of lead exposure effects on tissue accumulation, behavior, morphological and hemato-biochemical changes in common carp, *Cyprinus carpio* – JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, <https://doi.org/10.1016/j.jtemb.2024.127523>; (2024).
5. Bhat Rayees Ahmad, Kumar Jeetendra, Fazio Francesco, Giannetto Claudia, Piccione Giuseppe, **Parrino Vincenzo**, Kesbiç Osman Sabri - Cyclic Variations of Ovarian Development, Hormones and Sex Related Genes of Rainbow Trout (*Oncorhynchus mykiss*) During Different Growth Stages - TURKISH JOURNAL OF FISHERIES & AQUATIC SCIENCES 24(7), TRJFAS25504, <https://doi.org/10.4194/TRJFAS25504>; (2024).
6. Bruno Fabio, Nava Vincenzo, Fazio Francesco, Sansotta Carlo, Bruschetta Giuseppe, Licata Patrizia, **Parrino Vincenzo** - Heavy Metals bioaccumulation in *Mytilus galloprovincialis* and *Tapes decussatus* from Faro Lake (Messina), Italy - BIOLOGICAL TRACE ELEMENT RESEARCH; <https://doi.org/10.1007/s12011-024-04128-1>; (2024).

7. Fazio Francesco, Costa Antonino, Capparucci Fabiano, Costa Gregorio, **Parrino Vincenzo**, Arfuso Francesca - Automated Hematological Approach and Protein Electrophoretic Pattern in Tilapia (*Oreochromis niloticus*): An Innovative and Experimental Model for Aquaculture - *ANIMALS* 14, 392; <https://doi.org/10.3390/ani14030392>; (2024).
8. Kesbiç Fevziye Isıl, Metin Hilal, Fazio Francesco, **Parrino Vincenzo**, Kesbiç Osman Sabri - Effects of Bacterioruberin-Rich Haloarchaeal Carotenoid Extract on the Thermal and Oxidative Stabilities of Fish Oil – *MOLECULES*; 28, 8023; <https://doi.org/10.3390/molecules28248023>; (2023).
9. Saira Naz, Zizzo Gaetano, Syed Sikandar Habib, Aamir Ali, Sobia Attaullah, Gina Rita Parrino, Mara Diana Petrone, Taugia Giuseppe Pirrone, **Parrino Vincenzo**, Fazio Francesco, Mazzone Antonino - Risk evaluation of Dengue virus transmission in Sargodha district (Punjab, Pakistan): a cross-sectional survey of Aedes mosquito infestation in houses and containers - *INTERNATIONAL JOURNAL OF TROPICAL INSECT SCIENCE*; ISSN 17427584; <https://doi.org/10.1007/s42690-023-01097-1>; (2023).
10. Molica Colella Francesco, Zizzo Gaetano, **Parrino Vincenzo**, Filosa Maria Teresa, Cavaliere Riccardo, Fazio Francesco, Molica Colella Aldo Biagio, Mazzone Antonino - Effectiveness and safety of secukinumab in ankylosing spondylitis and psoriatic arthritis: a 52-week real-life study in an Italian cohort - *ADVANCES IN RHEUMATOLOGY*, 63:15; <https://doi.org/10.1186/s42358-023-00295-2>; (2023).
11. Peycheva Katya, Panayotova Veselina, Stancheva Rositsa, Merdzhanova Albena, Dobрева Diana, **Parrino Vincenzo**, Cicero Nicola, Fazio Francesco, Licata Patrizia - Seasonal Variations in the Trace Elements and Mineral Profiles of the Bivalve Species, *Mytilus galloprovincialis*, *Chamelea gallina* and *Donax trunculus*, and Human Health Risk Assessment. *TOXICS*, 11(4), 319; <https://doi.org/10.3390/toxics11040319>; (2023).

12. Cammilleri Gaetano, Calabrese Vittorio, Accordino Letizia, Pantano Licia, Migliazzo Aldo, Galluzzo Francesco Giuseppe, **Parrino Vincenzo**, Brunone Assunta, Lo Dico Gianluigi Maria, Bacchi Emanuela, Giangrosso Giuseppe, Calvacca Pellegrino Francesco, Ferrantelli Vincenzo - Toxic metals and total lipids comparison between wild and farmed fish of South mediterranean. NATURAL PRODUCT RESEARCH; <https://doi.org/10.1080/14786419.2022.2037588>; (2022).
13. Bakhshalizadeh Shima, Mora-Medina Rafael, Fazio Francesco, **Parrino Vincenzo**, Ayala-Soldado Nahúm - Determination of the Heavy Metal Bioaccumulation Patterns in Muscles of Two Species of Mulletts from the Southern Caspian Sea. ANIMALS, 12, 2819; <https://doi.org/10.3390/ani12202819>; (2022).
14. Basova Marina, Svetlana Krasheninnikova, **Parrino Vincenzo** - Intra-Decadal (2012–2021) - Dynamics of Spatial Ichthyoplankton Distribution in Sevastopol Bay (Black Sea) Affected by Hydrometeorological Factors. ANIMALS; 12, 3317; <https://doi.org/10.3390/ani12233317>; (2022).
15. **Parrino Vincenzo**, Tardiolo Giuseppe, De Marco Giuseppe, Lo Paro Giuseppe, Vitalone Bianca Maria, Zumbo Alessandro, D'Alessandro Enrico, Fazio Francesco - The monitoring of marine ecosystems of the Milazzo gulf and the Marinello nature reserve in Sicily: the potential role of *Coris julis* as pesticides bioindicator. CAHIERS DE BIOLOGIE MARINE; 63; DOI: 10.21411/CBM.A.34F927AC; (2022).
16. De Marco Giuseppe, Afsa Sabine, Galati Mariachiara, Billè Barbara, **Parrino Vincenzo**, ben Mansour Hedi, Cappello Tiziana - Comparison of cellular mechanisms induced by pharmaceutical exposure to caffeine and its combination with salicylic acid in mussel *Mytilus galloprovincialis*. ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, 93, 103888; <https://doi.org/10.1016/j.etap.2022.103888>; (2022).

17. Afsa Sabrine, De Marco Giuseppe, Giannetto Alessia, **Parrino Vincenzo**, Cappello, ben Mansour Hedi, Maisano, Maria - Histological endpoints and oxidative stress transcriptional responses in the Mediterranean mussel *Mytilus galloprovincialis* exposed to realistic doses of salicylic acid. ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY; Volume 92, May 2022; Article number 103855; (2022).
18. Caliani Ilaria, De Marco Giuseppe, Cappello Tiziana, Giannetto Alessia, Mancini Giuseppe, Ancora Stefania, Maisano Maria, **Parrino Vincenzo**, Cappello Simone, Bianchi Nicola, Oliva Sabrina, Luciano Antonella, Mauceri Angela, Leonzio Claudio, Fasulo Salvatore - Assessment of the effectiveness of a novel BioFilm-Membrane BioReactor oil-polluted wastewater treatment technology by applying biomarkers in the mussel *Mytilus galloprovincialis*. AQUATIC TOXICOLOGY; <https://doi.org/10.1016/j.aquatox.2021.106059> (2022).
19. Acar Ümit, Kesbiç Sabri Osman, Yılmaz Sevdan, Evren Burak İnanan, Zemheri-Navruz Fahriye, Terzi Funda, Fazio Francesco, **Parrino Vincenzo** - Effects of Essential Oil Derived from the Bitter Orange (*Citrus aurantium*) on Growth Performance, Histology and Gene Expression Levels in Common Carp Juveniles (*Cyprinus carpio*). ANIMALS 2021, 11, 1431; - <https://doi.org/10.3390/ani1105143>; (2021).
20. **Parrino Vincenzo**, De Marco Giuseppe, Minutoli Roberta, Lo Paro Giuseppe, Giannetto Alessia, Cappello Tiziana, De Plano Laura Maria, Cecchini Stefano, Fazio Francesco - Effects of pesticides on *Chelon labrosus* (Risso, 1827) evaluated by enzymatic activities along the north eastern Sicilian coastlines (Italy). THE EUROPEAN ZOOLOGICAL JOURNAL, vol. 88:1, p. 540–548; - ISSN; <https://doi.org/10.1080/24750263.2021.1905090>; (2021).

21. Francesco Fazio, Gregorio Costa, Giuseppe Piccione, Claudia Giannetto, **Vincenzo Parrino**, Francesca Arfuso - Innovative approach for haematological analysis in *Gobius niger* (Linnaeus, 1758) and *Mugil cephalus* (Linnaeus, 1758): Useful model in fish preventive medicine. AQUACULTURE RESEARCH.; 00:1–6 <https://doi.org/doi: 10.1111/are.15629>; (2021).
22. **Parrino Vincenzo**, Costa Gregorio, Giannetto Alessia, De Giuseppe Marco, Cammilleri Gaetano, Acar Ümit, Piccione Giuseppe, Fazio Francesco - Trace elements (Al, Cd, Cr, Cu, Fe, Mn, Ni, Pb and Zn) in *Mytilus galloprovincialis* and *Tapes decussatus* from Faro and Ganzirri Lakes (Sicily, Italy): Flow cytometry applied for hemocytes analysis. JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, 68, 126870; <https://doi.org/10.1016/j.jtemb.2021.126870>; (2021).
23. Peycheva Katya, Panayotova Veselina, Stancheva Rositsa, Makedonski Lubomir, Merdzhanova Albena, Cicero Nicola, **Parrino Vincenzo**, Fazio Francesco - Trace Elements and Omega-3 Fatty Acids of Wild and Farmed Mussels (*Mytilus galloprovincialis*) Consumed in Bulgaria: Human Health Risks. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, 181, 23; (2021).
24. Kesbiç Osman Sabri, **Parrino Vincenzo**, Acar Ümit, Yilmaz Sevdan, Lo Paro Giuseppe, Fazio Francesco – Effect of Monterey cypress (*Cupressus macrocarpa* Hartw) leaf essential oil as a dietary supplement on growth performance and haematological and biochemical parameters of common carp (*Cyprinus carpio* L.). DOI:10.2478/aoas-2020-0041. p. 1-33. ANNALS OF ANIMAL SCIENCE – ISSN: 1642-3402; (2020).
25. **Parrino Vincenzo**, Minutoli Roberta, Lo Paro Giuseppe, Surfaro Dario, Fazio Francesco - Environmental assessment of the pesticides in *Parablennius sanguinolentus* along the Western Calabrian coast (Italy). Regional Studies in Marine Science, vol. 36, <https://doi.org/10.1016/j.rsma.2020.101297>; (2020).

26. Giannetto Alessia, Oliva Sabrina, Riolo Kristian, Savastano Domenico, **Parrino Vincenzo**, Cappello Tiziana, Maisano Maria, Fasulo Salvatore, Mauceri Angela - Waste valorization via *Hermetia illucens* to produce protein-rich biomass for feed: Insight into the critical nutrient taurine. ANIMALS – MDPI - vol. 10, issue 9, September 2020, Article number 1710, Pages 1-17. <https://doi.org/10.3390/ani10091710>; (2020).
27. Giannetto Alessia, Oliva Sabrina, Ceccon Lanes Carlos Frederico, de Araújo Pedron Fabio, Savastano Domenico, Baviera Cosimo, **Parrino Vincenzo**, Lo Paro Giuseppe, Spanò Nunzia Carla, Cappello Tiziana, Maisano Maria, Mauceri Angela, Fasulo Salvatore - *Hermetia illucens* (Diptera: Stratiomyidae) larvae and prepupae: Biomass production, fatty acid profile and expression of key genes involved in lipid metabolism – JOURNAL OF BIOTECHNOLOGY, 307 p. 44–54 - <https://doi.org/10.1016/j.jbiotec.2019.10.015>; (2020).
28. **Parrino Vincenzo**, Cappello Tiziana, Costa Gregorio, Cannavà Concetta, Sanfilippo Marilena, Fazio Francesco, Piccione Giuseppe, Fasulo Salvatore – Blood flow cytometry in *Mugil cephalus* and *Carassius auratus*: A comparative study, ATTI DELLA ACCADEMIA PELORITANA DEI PERICOLANTI, CLASSE DI SCIENZE FISICHE, MATEMATICHE E NATURALI, vol. 97, p.1-10, ISSN: 1825-1242; <https://doi.org/10.1478/AAPP.97S2A15>; (2019).
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30. Fazio Francesco, Saoca Concetta, Costa Gregorio, Zumbo Alessandro, Piccione Giuseppe, **Parrino Vincenzo** - Flow cytometry and automatic blood cell analysis in striped bass *Morone saxatilis* (Walbaum, 1792): A new hematological approach. – AQUACULTURE, 513 – <https://doi.org/10.1016/j.aquaculture.2019.734398>; (2019).
31. **Parrino Vincenzo**, Costa Gregorio, Cannavà Carmela, Fazio Enza, Bonsignore Martina, Saoca Concetta, Piccione Giuseppe, Fazio Francesco - Flow cytometry and micro-Raman spectroscopy: Identification of hemocyte populations in the mussel *Mytilus galloprovincialis* (Bivalvia: Mytilidae) from Faro Lake and Tyrrhenian Sea (Sicily, Italy). - FISH AND SHELLFISH IMMUNOLOGY, vol. 87, p. 1-8, ISSN: 1050-4648, <https://doi.10.1016/j.fsi.2018.12.067>; (2019).
32. **Parrino Vincenzo**, Kesbiç Osman Sabri, Acar Ümit, Fazio Francesco - Hot pepper (*Capsicum* sp.) oil and its effects on growth performance and blood parameters in rainbow trout (*Oncorhynchus mykiss*). - NATURAL PRODUCT RESEARCH, p. 1-5, ISSN: 1478-6419, <https://doi.10.1080/14786419.2018.1550769>; (2019).
33. Cappello Tiziana, Maisano Maria, Giannetto Alessia, Natalotto Antonino, **Parrino Vincenzo**, Mauceri Angela, Spanò Nunzia - Pen shell *Pinna nobilis* L. (Mollusca: Bivalvia) from different peculiar environments: adaptive mechanisms of osmoregulation and neurotransmission. – THE EUROPEAN ZOOLOGICAL JOURNAL, p. 333–342, Vol. 86, No. 1, <https://doi.org/10.1080/24750263.2019.1673492>; (2019).
34. Cappello Tiziana, Giannetto Alessia, **Parrino Vincenzo**, Maisano Maria, Oliva Sabrina, De Marco Giuseppe, Guerriero Giulia, Mauceri Angela, Fasulo Salvatore - Baseline levels of metabolites in different tissues of mussel *Mytilus galloprovincialis* (Bivalvia: Mytilidae). - COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY. PART D, GENOMICS & PROTEOMICS, vol. 26, p. 32-39, ISSN: 1744-117X, <https://doi.10.1016/j.cbd.2018.03.005>; (2018).

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39. Giannetto Alessia, Maisano Maria, Cappello Tiziana, Oliva Sabrina, **Parrino Vincenzo**, Natalotto Antonino, De Marco Giuseppe, Fasulo Salvatore - Effects of Oxygen Availability on Oxidative Stress Biomarkers in the Mediterranean Mussel *Mytilus galloprovincialis*. - MARINE BIOTECHNOLOGY, vol. 19, p. 614-626, ISSN: 1436-2228, doi: 10.1007/s10126-017-9780-6; (2017).

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45. D'Agata Alessia, Cappello Tiziana, Maisano Maria, **Parrino Vincenzo**, Giannetto Alessia, Brundo Maria Violetta, Ferrante Margherita, Mauceri Angela - Cellular biomarkers in the mussel *Mytilus galloprovincialis* from the Lake Faro (Sicily, Italy). - ITALIAN JOURNAL OF ZOOLOGY, 81: 43-54; (2014).
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