

Alessia Giannetto

Curriculum Vitae

Associate Professor at Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Italy. GSD 05/BIOS-04, SSD BIOS-04/A Comparative Anatomy, Cell Biology and Developmental Biology.

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EDUCATION

2008 - Ph.D. in Biology and Cellular Biotechnologies, University of Messina

2004 - Qualification for practicing of Biologist profession, University of Messina.

2004 - Five-year Degree in Biological Sciences, Molecular Biology Course, University of Messina

ACADEMICS ASSIGNMENTS

2021 to date Associate Professor, University of Messina

2018 – 2021 Temporary researcher L 240/10 (b), University of Messina

2016 – 2018 Temporary researcher L 240/10 (a), University of Messina

2015 – 2016 Post-Doc Research Fellow, University of Messina

2014 – 2015 Post-Doc Research Fellow, University of Messina

2012 – 2013 Post-Doc Research Fellow, University of Messina

2011 – 2012 Post-Doc Research Fellow, University of Messina

2009 – 2010 **highly competitive** mobility program *Yggdrasil Young Guest and Doctoral Researchers Annual Scholarships for Investigation and Learning in Norway*; Bodø University College, Norway

2008 – 2009 Post-Doc Research Fellow, University of Messina

TEACHING ASSIGNMENTS

2017 – to date: Member of the teaching board of the Doctorate in *Applied Biology and Experimental Medicine*, and tutor of *PhD* student, University of Messina.

AY 2019/2020 – to date: Seminar activity for *PhD* students of the Doctorate in *Applied Biology and Experimental Medicine*, University of Messina.

AY 2022/2023 – 2023/2024: lecturer of the course *Nutrition and life cycles* (S.S.D. BIO/06) for the MSc in “Food Science and Human Nutrition” at the University of Messina.

AY 2022/2023 – to date: lecturer of the course *Stem cells and differentiation* (S.S.D. BIO/06) for the MSc in “Biology of Health, Applied Technologies and Nutrition” at the University of Messina.

AY 2022/2023 – to date: Lecturer of the course *Cytology and Histology* (S.S.D. BIO/06), F-N class, for the B.Sc. in “Biological Sciences” at the University of Messina.

AY 2021/2022 Lecturer in Reproductive Biology and Embryology of Aquatic Organisms, 6 CFU, for the BSc in Biological Sciences, University of Messina.

AY 2016/2017 to 2021/2022: Lecturer in *Ecocytotoxicology* (S.S.D. BIO/06), 6 CFU, for the MSc in “Biology and Ecology of Coastal Marine Environment”, University of Messina.

AY 2020/2021 - 2021/2022: Lecturer in *General Biology*, 6 CFU, for the BSc in “Sustainability and Environmental Innovation”, University of Messina.

AY 2019/2020: Lecturer in *Fundamentals of Biology and Cellular Organization*, 6 CFU, for the BSc in “Environmental and Natural Sciences”, University of Messina.

AY 2017/2018: Lecturer in *Animal Biology*, 6 CFU, for the BSc in “Gastronomic Sciences”, University of Messina.

AY 2014/2015: Lecturer in *Biotechnologies in Cytotoxicology*, 6 CFU, for the MSc in “Biology”, University of Messina.

TUTORING/SUPERVISION OF PHD STUDENTS

Supervisor of the PhD-student Dott. Riolo Kristian, for the PhD in Applied Biology and Experimental Medicine of the University of Messina

Supervisor of the PhD-student Imen Chebbi from the University of Sfax, Tunisia, within the Erasmus+ mobility.

DEPARTMENTAL ORGANIZATIONAL ASSIGNMENTS

- AY 2022 to date: Member of the Focus Group for the M.Sc. in Food Science and Human Nutrition, SANU
- AY 2021/2022 to AY 2022/2023: Member of the Council of the Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm) at the University of Messina in representation of Associate Professor for the three-year period 2021/22, 2022/23, 2023/24.
- AY 2019/2020: Member of the Quality Assurance Group for the MSc in “Biology and Ecology of Coastal Marine Environment”, University of Messina.
- AY 2020/2021 to date: Member of the joint commission Teachers-Student, University of Messina.
- AY 2021/2022 to date: member of the commission of the Ethics Committee for the Department of Chemical, Biological, Pharmaceutical and Environmental Sciences.

SCIENTIFIC COMMITTEE MEMBERSHIP

- Member of the Teaching Committee of the Doctorate in Applied Biology and Experimental Medicine at the University of Messina
- 27.01.2022: Member of the Evaluation Committee for the evaluation of the final exam relating to the PhD in the Doctorate in APPLIED BIOLOGY AND EXPERIMENTAL MEDICINE, XXXIV cycle, at the University of Messina
- 25.07.2022: Member of the Evaluation Committee for the evaluation of the final exam relating to the PhD in the Doctorate in APPLIED BIOLOGY AND EXPERIMENTAL MEDICINE, XXXIV cycle, at the University of Messina
- AY 2022/2023 to date: Member of the Thesis Defence Committee for the BSc. in “Human Nutrition and Food Sciences”, University of Messina.
- AY 2019/2020: Member of the Thesis Defence Committee for the BSc. in “Environmental and Natural Sciences”, University of Messina.

- AY 2016/2017 to AY 2021/2022: Member of the Thesis Defence Committee for the MSc. in “Biology and Ecology of Coastal Marine Environment”, University of Messina.
- AY 2016/2017 to AY 2021/2022: Member of the Thesis Defence Committee for the BSc. in “Marine Biology and Ecology”, University of Messina.

EXTERNAL SCIENTIFIC ASSIGNMENTS

- 2023: Effective Member (opponent) of the PhD thesis defence at the Faculty of Bioscience and Aquaculture, Nord University, Norway.
- AY 2022/2023: Member of the Focus Group AGENDA 2030 – Strategies for a circular economy. Città Metropolitana di Messina.
- AY 2021/2022: Effective member of the Evaluation Committee for the evaluation of the final exam relating to the PhD in the Doctorate in EARTH AND ENVIRONMENTAL SCIENCES - XXXIII Cycle, University of Catania.

Research project evaluator for Ministero dell’Univeristà e della Ricercar, MUR

- Assignment as expert evaluator for the ongoing and final scientific evaluation on the progress of a project within International Cooperation Program Era-Net Blue Bioeconomy - Unlocking the potential of aquatic bioresources (BlueBio)", Call 2018-2019.

Research project evaluator for international institutions

- FY18 Coastal Hypoxia Research Program (CHRP) (2018).
- Czech Science Foundation public funding agency (Czech Republic) (2017).
- Woods Hole Sea Grant Program (2015).

RESEARCH ASSIGNMENTS AT FOREIGN UNIVERSITIES

- AY 2009/2010: Research assignments within the GrowCod research project (Ref. 190350/S40) for a period of ten months at the Nord University, Norway

MANAGED RESEARCH PROJECT AS SCIENTIFIC RESPONSIBLE WITH GRANT

- *“Betting on inter-Species commUnication through extRacellular vesicles of Paracentrus lividus and Hermetia illucens for Potential theRapeutIc uSE (SURPRISE) (Ref. P2022LASKT). Research Program of Relevant National Interest (P.R.I.N. 2022 PNRR) (Funds: 225.000,00 €)*
- *The role of DNA (cytosine-5)-methyltransferases in the epigenetic regulation of sexual maturation and growth in Atlantic cod”.* (Ref. 195536). Mobility program-Yggdrasil-2009-2010. Funded by Council of Norway, University of Nordland, Norway
- “Funding for basic activities related to research”. FFABR UNIME 2020 (Funds:1.500,00€)
- “Funding for basic activities related to research”. FFABR UNIME 2017 (Funds:3.000,00€)

RESEARCH PROJECT AS PARTICIPANT

- 2024 – to date: “FIT-BASS - Insect-based feed formulations for trout perch from aquaculture in Smart Basins and their influence on health and meat quality” (CN00000022).
- 2023 – to date: “Assessment of nano/microplastics impacts” (PLASTACT) (Ref. 202293AX2L). Research Program of Relevant National Interest (P.R.I.N. 2022).
- 2023 - to date: Pharma-HUB Project - *Hub for the repositioning of drugs in rare diseases of the nervous system in childhood* (CUP J43C22000500006 - identification code T4-AN-04). Development and Cohesion Fund 2014-2020 - FSC 2014-2020.
- 2023 – to date: “INSAIL Project – *Interventions to Support the Advanced, Integrated and Sustainable Development of aquaculture*”. PON “Research and Innovation” 2014 – 2020 Ministry of University and Research (CUP B86G18000700005).
- 2020-to 2023: BONE - Development of micro and nanotechnologies for the predictivity, diagnosis, therapy and regenerative treatments of pathological changes in the bone and osteo-articular (Project code: ARS01_00693). National Operational Program for Research and Innovation 2014 – 2020, Ministry of University and Research.
- 2016-2021 “EPIFISH: Innovative epigenetic markers for fish domestication”. ERC Consolidator Grant. European Research Council (Ref. 683210, 1,996,000 EUR).
- 2018 MiPAAF: “Bio-conversione di scarti di acciuga (*Engraulis encrasicolus*) e valutazione delle loro applicazioni in campo biomedico, su un modello animale sperimentale di aterosclerosi, attraverso lo studio della formazione e/o regressione delle lesioni ateromatose con tecniche di imaging.”
- 2013-2016: “Systems Biology in the study of xenobiotic effects on marine organisms for evaluation of the environmental health status: biotechnological applications for potential recovery strategies” Research Program of Relevant National Interest (P.R.I.N. 2010-2011, Ref. 2010ARBLT7_001/008), University of Messina, Italy.
- 2009-2014: “Grow Cod: Impact of photoperiod and sexual maturation on growth performance of Atlantic cod – a genomic perspective”. Website: <http://growcod.com/index.html>. Research Council of Norway (Ref. 190350/S40, 849.643 EUR).
- 2007: “Biomonitoring of coastal marine environment: developing and applying of novel cytochemical and molecular methods integrated”. Research Program of Relevant National Interest (P.R.I.N.). University of Messina, prot. 20079FELYB.
- 2007: “*Todarodes sagittatus* on biomonitoring”. Research Project of Athenaeum (P.R.A.). University of Messina.
- 2004-2005: “Ecotoxicological investigation and biomonitoring on benthic macrofauna in polluted coastal environment of Sicily”. ARPA Sicily.

HONORS AND AWARDS FOR RESEARCH ACTIVITY

- 2009-Yggdrasil Fellowship, Funded by *Research Council of Norway* (17.654,00 €).
- 2010-Research and development grant (FoU) for scientific projects, “*Expression analysis of DNA (cytosine-5)-methyltransferases from Atlantic cod under photoperiod condition*” amounting of 6.750 NOK (744,817 €) funded by the University of Nordland, Norway.
- 2010-Registration, travel and accommodation grant (FoU) for conference participation: 9° International Congress of Biology of Fish, Barcellona 5-9 July 2010 (“*The MLL genes in*

Atlantic cod (Gadus morhua) and their expression during photoperiod manipulation.” amounting of 6.750 NOK (744,817 €) funded by the University of Nordland, Norway.

- 2009-Research and development grant (FoU) for scientific projects, “*The role of DNA (cytosine-5)-methyltransferases in the epigenetic regulation of sexual maturation and growth in Atlantic cod*” amounting of 26.000 NOK (2.868,92 €) funded by the University of Nordland, Norway.

SCIENTIFIC AFFILIATIONS

- 2021 to date Scientific Community of the Zoological Station Anton Dohrn.
- 2006 to date: Società Unione Zoologica Italiana (UZI).
- 2019 to date: Accademia Peloritana de Pericolanti, II class of Medical-Biological Sciences.
- 2009-2014: Academic Affiliation to the “Faculty of Biosciences and Aquaculture”, University of Nordland/Bodø University College, Norway.
- 2017-2018: Italian Embryology Group (GEI-SIBSC).

SCIENTIFIC COLLABORATIONS

- Federal University of Pampa, Uruguaiiana, Brazil. Prof. Carlos Frederico Ceccon Lanes.
- Department of Biology and Biotechnology “L. Spallanzani”, University of Pavia, Italy. Prof. Davide Sasseria.
- MIVEGEC (Maladies Infectieuses et Vecteurs: Ecologie, Génétique, Evolution et Contrôle), Univ. Montpellier (UM)-Centre National de la Recherche Scientifique (CNRS)-Institut pour la Recherche et le Développement (IRD), Montpellier, France.
- Centre of Research in Ecology and Evolution of Diseases (CREES), Montpellier, France.
- Faculty of Science, University of South Bohemia, České Budějovice, Czech Republic.
- Koret School of Veterinary Medicine, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot, Israel.
- Department of Biomedical and Clinical Sciences L. Sacco, University of Milan, Milan, Italy
- Center of Rickettsiosis and Arthropod-Borne Diseases (CRETAV), San Pedro University Hospital-Center of Biomedical Research from La Rioja (CIBIR), Logroño, Spain.
- Institute of Infection, Veterinary & Ecological Sciences, University of Liverpool, Liverpool, United Kingdom.
- Department of Veterinary Medicine, University of Milan, Lodi, Italy.
- Nord University, Norway, Department of Biosciences and Aquaculture. Prof. Jorge M. O. Fernandes.
- Oslo University Hospital, Norway. Dr. Arvind J.M. Sundaram.
- Tohoku University, Japan, Laboratory of Aquacultural Biology, Dr. Kazue Nagasawa.
- University of Warmia and Mazury in Olsztyn, Department of Zoology, Olsztyn, Warmia and Mazury, Poland. Lech Kirtiklis.
- Department of Forestry, Bayramiç Vocational School, Çanakkale Onsekiz Mart University, Çanakkale 17100, Turkey.
- Department of Biology, Faculty of Science, Muğla Sıtkı Koçman University, Muğla 48000, Turkey.
- Department of Animal Nutrition and Nutritional Diseases, Veterinary Faculty, Kastamonu University, Kastamonu 37100, Turkey.

- Department of Aquaculture, Marine Science and Technology Faculty, Çanakkale Onsekiz Mart University, Çanakkale 17100, Turkey.
- Department of Aquaculture, Faculty of Fisheries, Mugla Sıtkı Koçman University, Muğla 48000, Turkey.
- Agenzia Regionale per la Protezione Ambientale (ARPA Sicilia), Palermo, Italy.
- Istituto per l’Ambiente Marino Costiero, Centro Nazionale delle Ricerche (IAMC-CNR), Messina, Italy.
- Department of Biology, University of Catania, Italy.
- Università della Calabria, Rende (Cosenza), Italy.

EDITORIAL ACTIVITY

Guest referee for the following journals:

- Animals (IF: 2.7)
- Insects (IF: 2.139)
- Molluscan Research (IF: 1.088)
- Fisheries Science (IF: 2.148)
- Marine Genomics (Elsevier) (IF: 2.143)
- Molecular Biology Report (IF: 2.742)
- Mini-Reviews in Medicinal Chemistry (IF: 3.862)
- Journal of Cleaner Production (IF: 11.072)
- Journal of Asia-Pacific Entomology (IF: 1.58)
- Gene (IF: 3.913)
- Comparative Biochemistry and Physiology (IF: 4.52)
- Fish and Shellfish Immunology (IF: 4.622)
- Waste and biomass valorization (IF: 3.449)
- European Zoological Journal (IF: 1.699)
- Environmental Science and Pollution Research (IF: 5.19)
- Agricultural and Science Research Journal (IF: 0.675)

Editorial Board Member

- To date: *Animals* (MDPI) (ISSN 2076-2615)
- To date: *International Journal of Food Sciences and Research* (ISSN 2576-3733)
- 2016-to date: *International Journal of Innovative Studies in Aquatic Biology and Fisheries (IJISABF)*-ARC Publications (ISSN 2454-7662)
- 2016-to date: *Journal of Clinical Toxicology (Omics International)* (ISSN: 2161-0495)
- To date: Associate editor: *Annals of Aquaculture and Research*, (ISSN: 2379-0881)
- 2017: *Journal of Aquaculture and Marine Sciences*
- 2016: *Nutrition and metabolism* (Scientific Literature, SL). SNIP: 1.138
- 2016: *Clinical and cellular immunology Heighten - Science Publication (Heighpubs)*

Guest Editor of Special Issue

- “*Waste Valorization via Hermetia illucens: Potential Applications of Insect Biomass*”, *Animals* IF:2.7
- “*Applications of Natural Products in Sustainable Biotechnology*”, *International Journal of Molecular Sciences*, IF 5.6

TECHNOLOGY TRANSFER

- Patents

Hi – Household Breeding System. Incubator for the home production of *Hermetia illucens* larval biomass. Ref. P4828IT00.

- Spin-off

Member of the Spin-off SEA IN HEALTH AND LIFE (2023)

THIRD MISSION ACTIVITIES

- Divulgative activity: “From food waste to new and sustainable nutritional sources and valuable bioactive molecules via *Hermetia illucens* bioconversion process.” within the project MedNighth associated to the “European Researchers’ Night 2023”, Rectorate of the University of Messina on 29th September 2023.
- Invited speaker with the talk “La Mosca Soldato (BSF, *Hermetia illucens*) una nuova biotecnologia per valorizzare i rifiuti e alimentare gli animali” for the Event “Researchers back to school” within the project MedNight 2022. Scientific High School Archimede, Messina, 21st December 2022.
- Member of the organizing staff for the project MedNighth associated to the “European Researchers’ Night 2022”, Rectorate of the University of Messina on 30th September 2022.
- Divulgative activity: “The soldier fly in the battle for addressing global challenges” within the project MedNighth associated to the “European Researchers’ Night 2022”, Rectorate of the University of Messina on 30th September 2022.
- Divulgative activity: “Throughput of *Hermetia illucens* larvae to obtain high nutritional value feeds or of sustainable biotechnological materials” within the project MedNighth associated to the “European Researchers’ Night 2022”, Rectorate of the University of Messina on 30th September 2022.
- Divulgative activity: “Biological effect of *Hermetia illucens* extracts” within the project MedNighth associated to the “European Researchers’ Night 2022”, Rectorate of the University of Messina on 30th September 2022.
- Divulgative activity: “I pesci mangiano la plastica... e noi? Danni biologici cellulari dell’inquinamento da microplastiche su organismi viventi” within the project MedNighth associated to the “European Researchers’ Night 2022”, Rectorate of the University of Messina on 30th September 2022.
- Divulgative activities with the thematic laboratory on “Effects of pollutants on the embryo development of aquatic organisms” within the project Sea in SHELL, event associated to the “European Researchers’ Night 2021”, held at Ganzirri Lagoon on 15th May 2022.
- Thematic laboratory on “Effects of pollutants on the embryo development of aquatic organisms” within the project Sea in SHELL, event associated to the “European Researchers’ Night 2021”, held at Ganzirri Lagoon on 24th September 2021.

RESEARCH INTERESTS

The most recent research interest is focused on studying the cellular mechanisms underlying metabolic pathways related to the growth of the insect *Hermetia illucens*, commonly known as Black Soldier Fly (BSF), that represents a sustainable alternative for food waste valorisation. The aim of this research topic is understanding the complex processes of BSF development, together with the evaluation of the application potential of larval biomass as an alternative and sustainable source of nutrients and bioactive molecules with relevant antioxidant and cytoprotective properties that can be used as natural ingredient in biomedical and environmental applications. Past and current research interests also include:

- *In vitro* and *in vivo* evaluation of protein hydrolysates obtained from by-products of industrial processing as valuable nutraceutical in food, feed and pharmaceutical industry with particular interest in the perspective of waste valorization.
- Physiological and molecular responses of marine organisms to several environmental constraints. Specific research interests and past projects include studies on marine ecosystem biomonitoring, effects of chemicals and heavy metals on gene and protein expression, evaluation of oxidative stress biomarkers, DNA damage, relationships between DNA modification (methylation) and fitness-related parameters (growth, survival, development) in fish and mussels.
- Characterization of molecular response to oxygen availability in marine invertebrate involving transcription factors as key players in the strategies to cope with the hypoxia, a rising feature in aquatic ecosystems.
- Evaluation of the effects of metal nanoparticles, microplastics and emerging contaminants on aquatic organisms.
- microRNAs and epigenetic regulation of the oxidative stress and innate immune response gene networks by environmental factors, such as photoperiod in commercially important species.

PEER-REVIEWED SCIENTIFIC PUBLICATIONS IN JOURNALS WITH IF

1. Impellitteri, F., Riolo, K., Multisanti, C. R., Zicarelli, G., Piccione, G., Faggio, C., & **Giannetto, A.** (2024). Evaluating quaternium-15 effects on *Mytilus galloprovincialis*: New insights on physiological and cellular responses. *Science of The Total Environment*, 918, 170568. doi.org/10.1016/j.scitotenv.2024.170568. **IF: 8.2**
2. Multisanti CR, Riolo K, Impellitteri F, Chebbi I, Faggio C, **Giannetto A.** Short-term in vitro exposure of *Pinctada imbricata*'s haemocytes to quaternium-15: Exploring physiological and cellular responses. *Environ Toxicol Pharmacol.* 2023, 101:104198. doi: 10.1016/j.etap.2023.104198. **IF: 4.2**
3. Riolo K, Rotondo A, La Torre GL, Marino Y, Franco GA, Crupi R, Fusco R, Di Paola R, Oliva S, De Marco G, Savastano D, Cuzzocrea S, Gugliandolo E, **Giannetto A.** Cytoprotective and Antioxidant Effects of Hydrolysates from Black Soldier Fly (*Hermetia illucens*). *Antioxidants*, 2023 12(2):519. doi: 10.3390/antiox12020519. PMID: 36830077; PMCID: PMC9952651. **IF: 7.675**
4. De Benedetto, G.; Capparucci, F.; Natale, S.; Savoca, S.; Riolo, K.; Gervasi, C.; Albano, M.; **Giannetto, A.**; Gaglio, G.; Iaria, C. Morphological and Molecular Identification of Mullet Helminth Parasite Fauna from Ganzirri Lagoon (Sicily, Southern Italy). *Animals* 2023, 13, 847. <https://doi.org/10.3390/ani13050847>. **IF: 2.7**
5. Afsa S, De Marco G, Cristaldi A, **Giannetto A**, Galati M, Billè B, Oliveri Conti G, Ben Mansour H, Ferrante M, Cappello T. Single and combined effects of caffeine and salicylic acid on mussel *Mytilus galloprovincialis*: Changes at histomorphological, molecular and biochemical levels. *Environ Toxicol Pharmacol.* 2023 101:104167. doi: 10.1016/j.etap.2023.104167. PMID: 37286067. **IF: 4.2**
6. Abbate JM, **Giannetto A**, Arfuso F, Brunetti B, Lanteri G. RT-qPCR Expression Profiles of Selected Oncogenic and Oncosuppressor miRNAs in Formalin-Fixed, Paraffin-Embedded Canine Mammary Tumors. *Animals.* 2022 22;12(21):2898. doi: 10.3390/ani12212898. PMID: 36359024; PMCID: PMC9654908. **IF: 2.7**
7. De Benedetto G, Corti I, Malandra R, Riolo K, **Giannetto A**, Gaglio G. Unusual Localization of *Hysterothylacium incurvum* in *Xiphias gladius* (Linnaeus 1758) Caught in the Atlantic Ocean. *Pathogens.* 2022;11(11):1315. doi: 10.3390/pathogens11111315. PMID: 36365066. **IF: 4.531**
8. Mele S, De Benedetto G, **Giannetto A**, Riolo K, Oliva S, Reñones O, Garippa G, Merella P, Gaglio G. Morphological and molecular study of *Didymodielinus marginati* n. sp. (Trematoda: Didymozoidae) gill parasite of *Epinephelus marginatus* from the central and western Mediterranean Sea. *Parasitology.* 2022; 149(9):1219-1228. doi: 10.1017/S0031182022000762. PMID: 35621071. **IF: 3.243**
9. Afsa S, De Marco G, **Giannetto A**, Parrino V, Cappello T, Ben Mansour H, Maisano M. Histological endpoints and oxidative stress transcriptional responses in the Mediterranean mussel *Mytilus galloprovincialis* exposed to realistic doses of salicylic acid. *Environ Toxicol Pharmacol.* 2022 May;92:103855. doi: 10.1016/j.etap.2022.103855. Epub 2022. PMID: 35342010. **IF: 5.785**
10. De Marco, G., Conti, G. O., **Giannetto, A.**, Cappello, T., Galati, M., Iaria, C., ... & Maisano, M. (2022). Embryotoxicity of polystyrene microplastics in zebrafish *Danio rerio*. *Environmental research*, 208, 112552. **IF: 8.431**
11. Parrino V, Costa G, **Giannetto A**, De Marco G, Cammilleri G, Acar Ü, Piccione G, Fazio F. 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. *J Trace Elem Med Biol.* 2021; 68:126870. doi: 10.1016/j.jtemb.2021.126870. PMID: 34601281. **IF: 3.6**
12. Caliani I, De Marco G, Cappello T, **Giannetto A**, Mancini G, Ancora S, Maisano M, Parrino V, Cappello S, Bianchi N, Oliva S, Luciano A, Mauceri A, Leonzio C, Fasulo S. Assessment of the effectiveness of a novel BioFilm-Membrane BioReactor oil-polluted wastewater treatment technology by applying biomarkers in the mussel *Mytilus galloprovincialis*. *Aquat Toxicol.* 2021; 243:106059. doi: 10.1016/j.aquatox.2021.106059. PMID: 34991045. **IF: 4.34**
13. Buysse M, Floriano AM, Gottlieb Y, Nardi T, Comandatore F, Olivieri E, **Giannetto A**, Palomar AM, Makepeace BL, Bazzocchi C, Cafiso A, Sasseria D, Duron O. A dual endosymbiosis supports nutritional adaptation to hematophagy in the invasive tick *Hyalomma marginatum*. *Elife*; 10:e72747. doi: 10.7554/eLife.72747. PMID: 34951405; PMCID: PMC8709577. **IF: 8.14**
14. Lanes, C. F., Pedron, F. A., Bergamin, G. T., Bitencourt, A. L., Dorneles, B. E., Villanova, J. C., Dias, K.C., Riolo, K., Oliva, S., Savastano, D., **Giannetto, A.*.**, 2021. Black Soldier Fly (*Hermetia illucens*) Larvae and Prepupae Defatted Meals in Diets for Zebrafish (*Danio rerio*). *Animals*, 11(3), 720. **IF: 2.7**

15. Acar, Ü.; **Giannetto, A***; Giannetto, D.; Kesbiç, O.S.; Yılmaz, S.; Romano, A.; Tezel, R.; Türker, A.; Güllü, K.; Fazio, F. Evaluation of an Innovative and Sustainable Pre-Commercial Compound as Replacement of Fish Meal in Diets for Rainbow Trout during Pre-Fattening Phase: Effects on Growth Performances, Haematological Parameters and Fillet Quality Traits. *Animals* 2021, 11, 3547. <https://doi.org/10.3390/ani11123547>. **IF: 2.7**
16. De Benedetto G, **Giannetto A**, Riolo K, Iaria C, Brianti E, Gaglio G. *Anisakis pegreffii* Larvae in *Sphyræna viridensis* and Description of Granulomatous Lesions. *Animals*. 2021;11(12):3449. doi: 10.3390/ani11123449. PMID: 34944226; PMCID: PMC8697904. **IF: 2.7**
17. Abbate, J.M.; **Giannetto, A.**; Iaria, C.; Riolo, K.; Marruchella, G.; Hattab, J.; Calabrò, P.; Lanteri, G. First Isolation and Molecular Characterization of Pseudorabies Virus in a Hunting Dog in Sicily (Southern Italy). *Vet. Sci.* 2021, 8, 296. <https://doi.org/10.3390/vetsci8120296>. **IF: 2.3**
18. Cappello, T., De Marco, G., Conti, G. O., **Giannetto, A.**, Ferrante, M., Mauceri, A., Maisano, M., 2021. Time-dependent metabolic disorders induced by short-term exposure to polystyrene microplastics in the Mediterranean mussel *Mytilus galloprovincialis*. *Ecotoxicology and Environmental Safety*, 209, 111780. **IF: 4.872**
19. V. Parrino, G. De Marco, R. Minutoli, G. Lo Paro, **A. Giannetto**, T. Cappello, L.M. De Plano, S. Cecchini & F. Fazio (2021). Effects of pesticides on *Chelon labrosus* (Risso, 1827) evaluated by enzymatic activities along the northeastern Sicilian coastlines (Italy), *The European Zoological Journal*, 88:1, 540-548, DOI: 10.1080/24750263.2021.1905090. **IF: 1.74**
20. **Giannetto A.***, Oliva S., Riolo K., Savastano D., Parrino V., Cappello T., Maisano M., Fasulo S., Mauceri A., 2020. Waste Valorization via *Hermetia illucens* to Produce Protein-Rich Biomass for Feed: Insight into the Critical Nutrient Taurine. *Animals*, 10, 1710; doi:10.3390/ani10091710. **IF: 2.7**
21. **Giannetto A***, Esposito E., Lanza M., Oliva S., Riolo K, Di Pietro S., Abbate JM., Briguglio G., Cassata G., Cicero L., Macrì F. 2020. Protein Hydrolysates from Anchovy (*Engraulis encrasicolus*) Waste: In Vitro and In Vivo Biological Activities. *Marine Drugs*, 18, 86; doi:10.3390/md18020086. **IF: 4.9**
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