

Curriculum Vitae

Alessia Giannetto

Temporary Researcher (L 240/10, B Senior) at Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Italy. National Scientific Qualification as associate Professor in the Competition Sector 05B/B2, SSD BIO/06 Comparative Anatomy and Cytology.

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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

2018 – to date 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 2016/2017 – to date: Lecturer in *Ecocytotoxicology*, 6 CFU, for the MSc in “Biology and Ecology of Coastal Marine Environment”, 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 2020/2021 – to date: Lecturer in *General Biology*, 6 CFU, for the BSc in “Sustainability and Environmental Innovation”.

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.

Departmental Organizational Assignments

- AY 2019/2020 to date: Member of the Quality Assurance Group for the MSc in “Biology and Ecology of Coastal Marine Environment”, University of Messina.
- AY 2020/2021: Member of the joint commission Teachers-Student for the MSc in “Biology and Ecology of Coastal Marine Environment”, University of Messina.

Managed research project as scientific responsible with grant

- *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.

Research project as participant

- 2016-2021 “EPIFISH: Innovative epigenetic markers for fish domestication”. ERC Consolidator Grant. European Research Council (2016-2020, Ref. 683210, 1,996,000 EUR).
- 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 2009, Project number 195536/VII, 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^o 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 Affiliation

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

Scientific Collaborations

- Federal Univesity of Pampa, Uruguaiana, Brazil. Prof. Carlos Frederico Ceccon Lanes.
- Department of Biology and Biotechnology “L. Spallanzani”, University of Pavia, Italy. Prof. Davide Sasserà.
- University of Nordland, 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.
- 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:

- Insects (IF: 2.139)
- Molluscan Research (IF: 0.85)
- Fisheries Science (IF: 0.654)
- Marine Genomics (Elsevier) (IF: 1.883)
- Molecular Biology Report (IF: 1.698)
- Mini-Reviews in Medicinal Chemistry (IF: 2.841)
- Annals of Marine Biology and Research
- Journal of Cleaner Production (IF: 4.959)
- Journal of Asia-Pacific Entomology (IF: 1.046)
- Gene (IF: 2.415)
- Comparative Biochemistry and Physiology (IF: 1.812)
- Fish and Shellfish Immunology (IF: 3.148)
- Waste and biomass valorization (IF: 1.337)
- The European Zoological Journal (IF: 0.921)
- Environmental Science and Pollution Research (IF: 2.741)
- Agricultural and Science Research Journal (IF: 0.675)

Editorial Board Member

- To date: *Animals* (MDPI) (ISSN 2076-2615) IF: 2.23
- To date: *International Journal of Food Sciences and Research*
- 2016-to date: *International Journal of Innovative Studies in Aquatic Biology and Fisheries (IJISABF)*-ARC Publications (ISSN 2454-7662)
- To date: *American Journal of Genetics & Genomics (SciRes Literature)*

- 2016-to date: *Journal of Clinical Toxicology (Omics International)* (ISSN: 2161-0495), IF: 1.03
- 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:2.323 (MDPI)

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 interests

- The research interests focus on 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.
- The most recent research interest is focused on food waste bioconversion process by the insect *Hermetia illucens*, a sustainable alternative for food waste valorisation with low environmental impacts as evaluated by LCA methodology. The high-value insect-based products represent valuable sources of protein and lipids that can be used as meal for aquaculture and feedstock, for the production of biodiesel, as well as sources of bioactive compounds to be used as natural ingredient in biomedical and environmental applications.
- *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.

Peer-reviewed scientific publications

1. 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: 2.323**
2. 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**
3. 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 north eastern Sicilian coastlines (Italy), *The European Zoological Journal*, 88:1, 540-548, DOI: 10.1080/24750263.2021.1905090
 4. **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: 2.323**
 5. **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: 4.073**
 6. **Giannetto A.**, Oliva S., Ceccon Lanes C.F. de Araújo Pedron F. Savastano D., Baviera C., Parrino V., Lo Paro G., Spanò N., Cappello T., Maisano M., Mauceri A., Fasulo S. 2020. *Hermetia illucens* (Diptera: Stratiomyidae) larvae and prepupae: biomass production, fatty acid profile and expression of key genes involved in lipid metabolism. *Journal of Biotechnology*. <https://doi.org/10.1016/j.jbiotec.2019.10.015>. **IF: 3.503**
 7. Gornati R., Maisano M., Pirrone C., Cappello T., Rossi F., Borgese M., **Giannetto A.**, Cappello S., Mancini G., Bernardini G., Fasulo S. 2019. Mesocosm System to Evaluate BF-MBR Efficacy in Mitigating Oily Wastewater Discharges: an Integrated Study on *Mytilus galloprovincialis*. *Mar Biotechnol*. <https://doi.org/10.1007/s10126-019-09923-9>. **IF: 3.062**
 8. Cappello T., Maisano, M., **Giannetto, A.**, Natalotto, A., Parrino V., Mauceri A., Spanò N. 2019. Pen shell *Pinna nobilis* L. (Mollusca: Bivalvia) from different peculiar environments: adaptive mechanisms of osmoregulation and neurotransmission. *European Zoological Journal*. 86, 333-342. **IF: 1.656**
 9. Caricato, R., Giordano, M.E., Schettino, T., Maisano, M., Mauceri, A., **Giannetto, A.**, Cappello, T., Parrino, V., Ancora, S., Caliani, I., Bianchi, N., Leonzio, C., Mancini, G., Cappello, S., Fasulo, S., Lionetto, M.G. 2019. Carbonic anhydrase integrated into a multimarker approach for the detection of the stress status induced by pollution exposure in *Mytilus galloprovincialis*: A field case study. *Science of the Total Environment* 690, 140-150. **IF: 6.551**
 10. **Giannetto, A.**, Cappello, T., Oliva, S., Parrino, V., De Marco, G., Fasulo, S., Mauceri, A., Maisano, M. 2018. Copper oxide nanoparticles induce the transcriptional modulation of oxidative stress-related genes in *Arbacia lixula* embryos. *Aquatic Toxicology*. 201, 187-197. **IF: 4.344**
 11. Cappello, T., **Giannetto, A.**, Parrino, V., De Marco, G., Mauceri, A., Maisano, M. 2018a. Food safety using NMR-based metabolomics: Assessment of the Atlantic bluefin tuna, *Thunnus thynnus*, from the Mediterranean Sea. *Food and Chemical Toxicology*. 115, 391-397. **IF: 4.679**
 12. Cappello, T., **Giannetto, A.**, Parrino, V., Maisano, M. Oliva, S. De Marco, G. Guerriero, G., Mauceri, A., Fasulo, S. 2018b. Baseline levels of metabolites in different tissues of mussel *Mytilus galloprovincialis* (Bivalvia: Mytilidae). *Comparative Biochemistry and Physiology - Part D: Genomics and Proteomics*. 26, 32-39. **IF: 3.011**
 13. **Alessia Giannetto**, Maria Maisano, Tiziana Cappello, Sabrina Oliva. Vincenzo Parrino, Antonino Natalotto, Giuseppe De Marco, Salvatore Fasulo. 2017a. Effects of Oxygen Availability on Oxidative Stress Biomarkers in the Mediterranean Mussel *Mytilus galloprovincialis*. *Marine Biotechnology* DOI 10.1007/s10126-017-9780-6. **IF: 3.062**
 14. **Alessia Giannetto**, Sabrina Oliva, Lorenzo Mazza, Giovanni Mondello, Domenico Savastano, Angela Mauceri, Salvatore Fasulo. 2017b. Molecular characterization and expression analysis of heat shock protein 70 and 90 from *Hermetia illucens* reared in a food waste bioconversion pilot plant. *Gene* 627, 15-25. **IF: 2.984**
 15. Salomone R., Saija G., Mondello G., **Giannetto A.**, Fasulo S., Savastano D. 2016. Environmental impact of food waste bioconversion by insects: application of Life Cycle Assessment to process using *Hermetia illucens*. *Journal of Cleaner Production*. 140, 890-905. doi:10.1016/j.jclepro.2016.06.154. **IF: 7.246**
 16. Maria Maisano, Antonino Natalotto, Tiziana Cappello, **Alessia Giannetto**, Sabrina Oliva, Vincenzo Parrino, Marilena Sanfilippo, Angela Mauceri. 2016a. Influences of Environmental Variables on Neurotransmission, Oxidative System, and Hypoxia Signaling on Two Clam Species from a Mediterranean Coastal Lagoon. *Journal of Shellfish Research* 35(1):41-49. **IF: 0.933**
 17. Maisano, M., Cappello, T., Oliva, S., Natalotto, A., **Giannetto, A.**, Parrino, V., Battaglia, P. Romeo, T., Salvo, A., Spanò, N., Mauceri, A. 2016b. PCB and OCP accumulation and evidence of hepatic alteration in the Atlantic bluefin tuna, *T. thynnus*, from the Mediterranean Sea. *Marine Environmental Research* DOI:10.1016/j.marenvres.2016.03.003. **IF: 2.727**
 18. Maisano, M., Cappello, T., Natalotto, A., Vitale, V., Parrino, V., **Giannetto, A.**, Oliva, S., Mancini, G., Cappello, S., Mauceri, A., Fasulo, S. 2017. Effects of petrochemical contamination on caged marine mussels using a

- multi-biomarker approach: Histological changes, neurotoxicity and hypoxic stress. *Marine Environmental Research*, DOI: 10.1016/j.marenvres.2016.03.008. **IF: 2.727**
19. **Alessia Giannetto**, Maria Maisano, Tiziana Cappello, Sabrina Oliva, Vincenzo Parrino, Antonino Natalotto, Giuseppe De Marco, Chiara Barberi, Orazio Romeo, Angela Mauceri, Salvatore Fasulo. 2015. *Hypoxia-inducible factor α and Hif-prolyl hydroxylase characterization and gene expression in short-time air exposed *Mytilus galloprovincialis**. *Marine Biotechnology* 17:768–781. **IF: 3.062**
 20. Maria Maisano, Tiziana Cappello, Eva Catanese, Valeria Vitale, Antonino Natalotto, **Alessia Giannetto**, Davide Barreca, Elvira Brunelli, Angela Mauceri, Salvatore Fasulo. 2015. *Developmental abnormalities and neurotoxicological effects of CuO NPs on the black sea urchin *Arbacia lixula* by embryotoxicity assay*. *Marine Environmental Research* 111: 121-127. **IF: 2.727**
 21. V. Mazzei, **A. Giannetto**, M.V. Brundo, M. Maisano, M. Ferrante, Copat C, A. Mauceri and G. Longo. 2015. *Metallothioneins and Heat shock proteins 70 in *Armadillidium vulgare* (Isopoda, Oniscidea) exposed to cadmium and lead*. *Ecotoxicology and Environmental Safety*. 116:99-106. **IF: 4.872**
 22. Tiziana Cappello, Maria Maisano, **Alessia Giannetto**, Vincenzo Parrino, Angela Mauceri, Salvatore Fasulo. 2015. *Neurotoxicological effects on marine mussel *Mytilus galloprovincialis* caged at petrochemical contaminated areas (eastern Sicily, Italy): 1 H NMR and immunohistochemical assays*. *Comparative Biochemistry and Physiology, Part C* 169 7–15. **IF: 2.892**
 23. Carlo Lazado; Hiruni Kumaratunga; Kazue Nagasawa; Igor Babiak; **Alessia Giannetto**; Jorge Fernandes. 2014. *Daily rhythmicity of clock gene transcripts in Atlantic cod fast skeletal muscle*. *PLoS ONE*, doi: 10.1371/journal.pone.0099172. **IF: 3.23**
 24. A. D'Agata, T. Cappello, M. Maisano, V. Parrino, **A. Giannetto**, M. V. Brundo, M. Ferrante, A. Mauceri. 2014. *Cellular biomarkers in the mussel *Mytilus galloprovincialis* (Bivalvia: Mytilidae) from Lake Faro (Sicily, Italy)*. *Italian Journal of Zoology* 81:1, 43-54 DOI: 10.1080/11250003.2013.878400. **IF: 1.656**
 25. **Alessia Giannetto**, Jorge M O Fernandes, Kazue Nagasawa, Angela Mauceri, Maria Maisano, Elena De Domenico, Tiziana Cappello, Sabrina Oliva, Salvatore Fasulo. 2014. *Influence of continuous light treatment on expression of stress biomarkers in Atlantic cod*. *Developmental and Comparative Immunology* 44, 30-40. **IF: 3.192**
 26. Elena De Domenico, Angela Mauceri, Daniela Giordano, Maria Maisano, **Alessia Giannetto**, Vincenzo Parrino, Antonino Natalotto, Alessia D'Agata, Tiziana Cappello, Salvatore Fasulo. 2013. *Biological responses of juvenile European sea bass (*Dicentrarchus labrax*) exposed to contaminated sediments*. *Ecotoxicology and Environmental Safety* 97, 114–123. **IF: 4.872**
 27. **Giannetto A.**, Nagasawa K., Fasulo S., Fernandes J.M.O. 2013. *Influence of photoperiod on expression of DNA (cytosine-5) methyltransferases in Atlantic cod*. *GENE* 519: 222-230. **IF: 2.984**
 28. Fasulo S., Iacono F., Cappello T., Corsaro C., Maisano M., D'Agata A., **Giannetto A.**, De Domenico E., Parrino V., Lo Paro G. 2012. “*Metabolomic investigation of *Mytilus galloprovincialis* (Lamarck 1819) caged in aquatic environments*”. *Ecotoxicology and Environmental Safety*, 84:139-46. **IF: 4.872**
 29. Kazue Nagasawa, **Alessia Giannetto** and Jorge M.O. Fernandes. 2012. *Photoperiod influences growth and MLL (mixed lineage leukemia) expression in Atlantic cod*. *PLoS ONE*, 7(5): e36908. doi:10.1371. **IF: 3.23**
 30. Brunelli E., Mauceri A., Maisano M., Bernabò I., **Giannetto A.**, De Domenico E., Corapi B., S.Tripepi, S. Fasulo. 2011. *Ultrastructural and immunohistochemical investigation on the gills of the teleost *Thalassoma pavo*L., exposed to cadmium*. *Acta Histochemica*; 113(2):201-13. **IF: 2.107**
 31. Fasulo S., Mauceri A., Maisano M., **Giannetto A.**, Parrino V., Gennuso F., D'Agata A. 2010a. *Immunohistochemical and molecular biomarkers in *Coris julis* exposed to environmental contaminants*. *Ecotoxicology and Environmental Safety*, 73(5):873-82. **IF: 4.872**
 32. Fasulo S., Marino S., Mauceri A., Maisano M., **Giannetto A.**, D'Agata A., Parrino V., Minutoli R., De Domenico E. 2010b. *A multibiomarker approach in *Coris julis* living in a natural environment*. *Ecotoxicology and Environmental Safety*, 73(7):1565-73. **IF: 4.872**
 33. Brunelli E., Mauceri A., Fasulo S., **Giannetto A.**, Maisano M., Tripepi S. 2010 *Localization of aquaporin 1 and 3 in the gills of the Rainbow wrasse (*Coris julis*)*. *Acta Histochemica*; Volume112, Issue3, 251-258. **IF: 2.107**
 34. Zaccone G., Mauceri A., Maisano M., **Giannetto A.**, Parrino V., Fasulo S. 2010. *Postganglionic nerve cell bodies and neurotransmitter localization in the teleost heart*. *Acta Histochem*; 112(4):328-36. **IF: 2.107**
 35. Minniti F., Maisano M., Mauceri A., **Giannetto A.**, Fasulo S. 2009. *GTH I and GTH II in the pituitary gland of swordfish (*Xiphias gladius* L.)*. *The Italian Journal of Zoology*, 76: 269-278. **IF: 1.656**
 36. Zaccone G, Mauceri A., Maisano M., **Giannetto A.**, Parrino V. and Fasulo S. 2009. *Distribution and neurotransmitter localization in the heart of the ray-finned fish, bichir (*Polypterus bichir bichir* Geoffroy St. Hilaire, 1802)*. *Acta Histochemica*; 111, 93-103. **IF: 2.107**
 37. Fasulo S., Mauceri A., **Giannetto A.**, Maisano M., Bianchi N., Parrino V. 2008. *Expression of metallothionein mRNAs by in situ hybridization in the gills of *Mytilus galloprovincialis*, from natural polluted environments*. *Aquatic Toxicology*, 88; 62-68. **IF: 4.344**

38. Zaccone G, Mauceri A., Maisano M., **Giannetto A.**, Parrino V. and Fasulo S. 2008. *Neurotransmitter localization in the Neuroepithelial Cells and Unipolar Neurons of the Respiratory Tract in the bichir Polypterus bichir bichir*. Acta Histochemica; 110, 143-150. **IF: 2.107**
39. Zaccone G., Mauceri A., Maisano M., **Giannetto A.**, Parrino V. and Fasulo S. 2007. *Innervation and neurotransmitter localization of the Nile bichir Polypterus bichir bichir*. The Anatomical Record; 290, (9), 1166-1177. **IF: 1.634**

International Conferenes

1. Tiziana Cappello, Maria Maisano, **Alessia Giannetto**, Vincenzo Parrino, Antonino Natalotto, Sabrina Oliva, Simone Cappello, Giuseppe Mancini, Giuseppe De Marco, Angela Mauceri, Salvatore Fasulo. (2018). Evaluation of recovery actions applied on petrochemical polluted waters and sediments using marine mussels in mesocosm-scale experiments. 24th International Sustainable Development Research Society Conference ACTION FOR A SUSTAINABLE WORLD: FROM THEORY TO PRACTICE. Messina, 13-15-Giugno-2018.
2. Roberta Salomone, Giuseppe Saija, Giovanni Mondello, Maria Pirilli, **Alessia Giannetto**, Salvatore Fasulo, Domenico Savastano (2015). Strategies for reducing food waste: Life Cycle Assessment of a pilot plant for insect-based feed products. In: Proceedings of the International Conference on Life Cycle Assessment as reference methodology for assessing supply chains and supporting global sustainability challenges - LCA for "Feeding the planet and energy for life". p. 319-322, ROMA:ENEA, ISBN: 9788882863210, Stresa and Milan (EXPO 2015) Italy, 6-7-8 October 2015.
3. Maisano M., Cappello T., Oliva S., Natalotto A., **Giannetto A.**, Battaglia P., Romeo T., Mauceri A. Evidences of changes in hepatic lipid metabolism in the atlantic bluefin tuna, *Thunnus thynnus*, from the Mediterranean Sea. 18th Pollutant Responses In Marine Organisms (PRIMO), PL-055; Trondheim (Norway), 24 - 27 May 2015.
4. Cappello T., Maisano M., Natalotto A., Parrino V., **Giannetto A.**, Mauceri A., Fasulo S. Effects of petrochemical contamination on caged marine mussels using a multi-biomarker approach: histopathology, metabolomics, neurotoxicity and DNA damage. 6th Bilateral Seminar Italy-Japan (BSIJ), 28; Palermo (Italy), 19 - 20 November 2014.
5. Maisano M., Catanese E., Vitale V., Cappello T., Natalotto A., **Giannetto A.**, Barreca D., Brunelli E., Mauceri A., Fasulo S. Effects of CuO NPs on first developmental stages of the sea urchin *Arbacia lixula*. 2nd Marine NanoEcoSafety Workshop (MANET), 25; Palermo (Italy), 17 - 18 November 2014.
6. Carlo C. Lazado, Kazue Nagasawa, Arvind Y.M. Sundaram, **Alessia Giannetto**, Igor Babiak and Jorge M.O. Fernandes. *Changes in the gonadal miRNAome of Atlantic cod during sexual maturation*. Aquaculture, Las Palmas, Gran Canaria, 3rd -7th November 2013.
7. Lazado, C.C., Nagasawa, K., Babiak, I., Sundaram, A.Y.M; **Giannetto, A.**, and Fernandes, J.M.O. The gonadal mirna transcriptome of Atlantic cod: does sexual maturation alter the microRNA repertoire? Genomic In Aquaculture (GIA) 4-6 September 2013, Bodo, Norway.
8. K. Nagasawa, **Alessia Giannetto** and J.M.O. Fernandes. *Epigenetic regulation of muscle growth by photoperiod in Atlantic cod (Gadus morhua)*. Aquaculture Europe, Trondheim, Norway August 9-12, 2013.
9. Carlo C. Lazado, Hiruni Kumaratunga, Kazue Nagasawa, **Alessia Giannetto**, Igor Babiak and Jorge M.O. Fernandes. *Is there a circadian rhythm in fast skeletal muscle of Atlantic cod?* Myogenesis Gordon Research Conferences (GRC). July 7-12, 2013, Lucca, Italy.
10. **Giannetto A.**, Fasulo S., Mauceri A., Maisano M., De Domenico E. & Fernandes J.M.O. *Influence of continuous light treatment on expression of health and stress biomarkers in Atlantic cod*. Genomics in Aquaculture (GIA) 2011, Heraklion, Crete, Greece, 13-17 Settembre 2011.
11. Carlo C. Lazado, Kazue Nagasawa, **Alessia Giannetto** and Jorge M.O. Fernandes. Circadian Periodicity of the Molecular Clock in Atlantic Cod and its Implications in precocious sexual maturation. World Aquaculture Society (WAS) 2011, Natal, Brazil, 6-10 Giugno 2011.
12. Jorge M.O. Fernandes, **Alessia Giannetto** and Kazue Nagasawa. *Differential mirna expression during gonadal maturation in Atlantic cod*. World Aquaculture Society (WAS) 2011, Natal, Brazil, 6-10 Giugno 2011.
13. Nagasawa K., **Giannetto A.**, Lazado C. and Fernandes J.M.O. *Influence of photoperiod on gene expressions of dna methyltransferases, histone methyltransferases and myogenic factors in fast muscle of Atlantic cod Gadus morhua*. World Aquaculture Society (WAS) 2011, Natal, Brazil, 6-10 Giugno 2011.
14. Nagasawa K., **Giannetto A.**, Kirtiklis L., Lazado C. & Fernandes J.M.O. *Photoperiodic treatment promotes weight gain and influences gene expression of histone methyl transferases in Atlantic cod (Gadus morhua)*. Aquaculture Europe 2010, Porto, Portugal, 5-8 October 2010 (pp. 1472).
15. Fernandes J. M.O, **Giannetto A.**, Nagasawa K. *DNA and histone methyltransferase in Atlantic cod (Gadus morhua) and their photorelated expression changes*. Society for Experimental Biology Annual Main Meeting, Prague, Czech Republic, 30 June - 3 July 2010 (pp.201).

16. Nagasawa, K., **Giannetto, A.**, Kirtiklis, L., and Fernandes, J.M.O *The Mll genes In Atlantic cod (Gadus morhua) and their expression during photoperiod manipulation*. 9th Congress of International Fish Biology, Barcelona, Spain, 5-7 July 2010. (pp. 175).
17. Fernandes, J.M.O., Nagasawa, K., and **Giannetto, A.** Photoperiod, muscle growth and transcriptomal responses in atlantic cod (*Gadus morhua*). 9th Congress of International Fish Biology, Barcelona, Spain, 5-7 July 2010. (pp 201-202).
18. Fernandes J. M.O, Nagasawa K., **Giannetto A.** *Impact of photoperiod and sexual maturation on growth performance of Atlantic cod-a genomic prospective. The DNMT and LMM gene families from Atlantic cod (Gadus morhua) and their regulation by photoperiod*. Norwegian Research Council Aquaculture Meeting (Havbruk 2010), Trondheim, Norway, 19-21 April 2010. (pp. 170).
19. M. Ferrante, M.V. Brundo, C. Copat, M. Trovato, D.M.G. Vitale, V. Mazzei, G. Longo, R. Viscuso, **A. Giannetto**, M. Maisano, F. Urbano, M. Fiore, G. Oliveri Conti, R. Fallico, S. Fasulo, S. Sciacca. Aquatic Invertebrates as Biological Monitors of Heavy Metals Pollution. 44th European Marine Biology Symposium, Liverpool (UK) 7-11 September 2009.

National Conferences

1. **Giannetto A.**, Oliva S., Ceccon Lanes C.F., de Araújo Pedron F., Savastano D., Baviera C., Parrino V., Lo Paro G., Spanò N., Cappello T., Maisano M., Mauceri A., Fasulo S. *Hermetia illucens* (Diptera: Stratiomyidae): molecular basis of different biochemical phenotypes in different developmental larval stages. 80° Congresso Unione Zoologica Italiana. Roma, 23-26 settembre, 2019.
2. M. Maisano, **A. Giannetto**, T. Cappello, G. De Marco, F. Capparucci, F. Marino, G. Oliveri Conti, P. Zuccarello, M. Ferrante, S. Oliva, V. Parrino, A. Mauceri, S. Fasulo. 2019. Embryotoxic effects of polystyrene microplastics in Zebrafish (*Danio rerio*). European Journal of Histochemistry vol. 63; supplement 2.
3. **Alessia Giannetto**, Tiziana Cappello, Sabrina Oliva, Vincenzo Parrino, Giuseppe De Marco, Salvatore Fasulo, Angela Mauceri, Maria Maisano 2018. Copper oxide nanoparticles induce the transcriptional modulation of oxidative stress-related genes in *Arbacia lixula* embryos. 64° Convegno GEI, Società Italiana di Biologia dello sviluppo e della cellula. L'Aquila 11-14 Giugno 2018.
4. Tiziana Cappello, **Alessia Giannetto**, Sabrina Oliva, Vincenzo Parrino, Salvatore Fasulo, Angela Mauceri, Maria Maisano (2017). Effects of CuO nanoparticles on early life stages of Black sea urchin *Arbacia lixula*. European Journal of Histochemistry, vol. 61/supplement 1, p. 7, ISSN: 1121-760X.
5. Salomone Roberta, Saija Giuseppe, Mondello Giovanni, **Giannetto Alessia**, Fasulo Salvatore, Savastano Domenico (2016). From food-waste to compost and feed: Life Cycle Assessment of a pilot plant of insect mass-rearing. In: Qualità e innovazione per una economia circolare ed un futuro sostenibile. p. 316-322, Viterbo: Università degli studi della Tuscia –Dipartimento D.E.IM., ISBN: 9788894164701, Viterbo, 2-4 marzo 2016.
6. Cappello T., Maisano M., **Giannetto A.**, Parrino V., Oliva S., Cappello S., Mancini G., De Marco G., Mauceri A., and Fasulo S. Environmental Metabolomics as a valuable tool in evaluating the effects of petrochemical contamination and recovery strategies on marine mussels. 1° Congresso congiunto Società Italiana di Ecologia (S.It.E.), Unione Zoologica Italiana (U.Z.I.), Società Italiana di Biogeografia (S.I.B.), 7; Milano, 30 August – 02 September 2016.
7. Veronica Mazzei, **Alessia Giannetto**, Maria Violetta Brundo, Maria Maisano, Angela Mauceri, Guglielmo Longo. Metallothionein and hsp70 expression in *Armadillidium vulgare* (latreille, 1804) (isopoda, oniscidea) exposed to cadmium and lead. Proceeding of the 75° National Conference of the Unione Zoologica Italiana - UZI, Bari; 09/2014.
8. Cappello T., Cogliandro D.A., Romeo T., Catanese E., Vitale V., Oliva S., **Giannetto A.** e Maisano M. Effetti degli inquinanti ambientali sul metabolismo lipidico di esemplari selvatici di tonno rosso del Mar Mediterraneo. 24° Congresso Nazionale della Società Italiana di Ecologia (S.It.E.), 106; Ferrara, 15–17 September 2014.
9. Cappello T., Maisano M., D'Agata A., Natalotto A., Parrino V., **Giannetto A.**, Cappello S., Mancini G., Mauceri A. e Fasulo S. Mitili “stressati” dopo stabulazione in un’area marina costiera contaminata da impianti petrolchimici. 24° Congresso Nazionale della Società Italiana di Ecologia (S.It.E.), 100; Ferrara, 15–17 September 2014.
10. Maisano M., Cappello T., D'Agata A., Natalotto A., Parrino V., **Giannetto A.**, Mauceri A., and Fasulo S. Cellular responses in mussels caged at coastal marine sites impacted by petrochemical industries. 75° Congresso Nazionale dell’Unione Zoologica Italiana (U.Z.I.), 15; Bari, 22–25 September 2014.
11. Vitale V., Maisano M., Catanese E., Cappello T., **Giannetto A.**, Natalotto A., Mauceri A., and Fasulo S. Interferences on skeletogenesis of *Arbacia lixula* (Echinodermata: Echinoidea) induced by CuO NPs. 75° Congresso Nazionale dell’Unione Zoologica Italiana (U.Z.I.), 41; Bari, 22–25 September 2014.

12. **ALESSIA Giannetto**, Maria Maisano, Tiziana Cappello, Vincenzo Parrino, Sabrina Oliva, Antonino Natalotto E Salvatore Fasulo. Risposte molecolari di *Mytilus galloprovincialis* a condizioni estreme di ipossia. 74° Congresso Uzi Modena 30 Settembre 2013-03 Ottobre 2013.
13. Tiziana Cappello, Maria Maisano, **Alessia Giannetto**, Giuseppe Lo Paro, Salvatore Fasulo, Angela Mauceri. Analisi metabolomica in *Mytilus galloprovincialis* trasferiti in ambienti fortemente inquinati da stabilimenti petrolchimici. 74° CONGRESSO UZI MODENA 30 SETTEMBRE 2013-03 OTTOBRE 2013.
14. Maisano M., Natalotto A., **Giannetto A.**, D'Agata A., Mauceri A., Fasulo S. "Esposizione ambientale ad interferenti endocrini: dai biondicatori tradizionali ai fet". 73° Atti U.Z.I. 2012.
15. D'Agata A., Maisano, M., **Giannetto, A.**, Parrino, V., Fasulo S., Mauceri, A. *Approccio "multi biomarkers" in Mytilus galloprovincialis proveniente da ambienti naturali confinati*. XXI Congresso della Società Italiana di Ecologia (SiTE) Palermo 3-6 Ottobre 2011.
16. Natalotto A., **Giannetto, A.**, Maisano, M., D'Agata A., Parrino, V., Mauceri, A. *Effetti degli interferenti endocrini in organismi acquatici*. XXI Congresso della Società Italiana di Ecologia (SiTE) Palermo 3-6 Ottobre 2011.
17. **Giannetto A.**, Fernandes J. M.O., Mauceri A., Fasulo S. *Sviluppo gonadico e profili di espressione di miRNA in Gadus morhua*. 57° Convegno Gruppo Embriologico Italiano (GEI) Monteortone, Padova 5-8 Giugno, 2011.
18. **Giannetto A.**, Fasulo S., Mauceri A. & Fernandes J.M.O. *miRNA and sexual maturation in Atlantic cod females*. 71° Congresso UZI, Palermo 20-23 Settembre, 2010, p. 52.
19. D'Agata A., **Giannetto A.**, Parrino V., De Domenico E., Natalotto A., Mauceri A. e Fasulo S. *Biomarkers cellulari e di genotossicità nel biomonitoraggio degli ecosistemi e delle comunità marine*. 71° Congresso UZI, Palermo 20-23 Settembre, 2010, p. 214.
20. D'Agata A., Mauceri A., Maisano M., **Giannetto A.**, Parrino V., De Domenico E., Fasulo S. *Citocromo P450 e glutazione S-Transferasi: biomarkers di inquinamento ambientale*. 70° Congresso UZI. Rapallo (GE), 21-24 Settembre, 2009, p. 120-120.
21. Maisano M., **Giannetto A.**, D'Agata A., Mauceri A., Fasulo S., Hanson L., Farrell A.P., Zaccone G. *Neuroni postgangliari e neurotrasmettitori nel cuore di Oncorhynchus mykiss* 70° Congresso UZI. Rapallo (GE), 21-24 Settembre, 2009, p. 58-58.
22. Maisano M., Mauceri A., **Giannetto A.**, D'Agata A., Iacono F., Fasulo S. *Gonadotropine ipofisarie di Galeus melastomus: sviluppo delle gonadi ed effetto degli xenobiotici*. 70° Congresso UZI. Rapallo (GE), 21-24 Settembre, 2009, p. 160-160.
23. Mazzei V., Fasulo S., Mauceri A., Trovato M., Copat C., Maisano M., **Giannetto A.**, Longo G. *Metallothioneine e citocromo P450 in Armadillium granulatum Brandt (Isopoda Oniscidea)*. 70° Congresso UZI, Rapallo (GE), 21-24 Settembre, 2009, p. 167-167.
24. Maisano M., Fasulo S., Mauceri A., **Giannetto A.**, Parrino V., Zaccone G. *Neuroni postgangliari nella regione seno-atriale del cuore di Mugil cephalus*. 69° Unione Zoologica Italiana (U.Z.I.) 2008.
25. D. Zaccone, C. Lo Presti, **A. Giannetto**, N. Crescenti. *Analisi molecolare di Leptomysis lingvura adriatica segnalata nello stretto di Messina*. 69° Unione Zoologica Italiana (U.Z.I.) 2008.
26. **Giannetto A.**, Falugi C., Mauceri A., Maisano M., Parrino V., D'Agata A., Potoschi A. e Fasulo S. *Todarodes sagittatus nel biomonitoraggio dell'Arcipelago delle Eolie*. 69° Unione Zoologica Italiana (U.Z.I.) 2008.
27. D'Agata A., Potoschi A., Mauceri A., Maisano M., Parrino V., **Giannetto A.** e Fasulo S. *Dati preliminari sulla biologia riproduttiva di Todarodes sagittatus (Lamarck, 1798) dell'Arcipelago Eoliano*. 69° Unione Zoologica Italiana (U.Z.I.) 2008.
28. **Giannetto A.**, Mauceri A., Maisano M., D'Agata A., Parrino V., Fasulo S. *Coris julis nel biomonitoraggio di aree costiere*. 39° Società Italiana di Biologia Marina (S.I.B.M.). 2008.
29. Fasulo S., Lo Paro G. Mauceri A. Crescenti N. Spanò N. Parrino V. Maisano M. **Giannetto A.** Gennuso F. *Indagini ecotossicologiche e biomonitoraggio su macrofauna bentonica di ambienti costieri*. Arpa View anno VI n.16 Giugno 2008.
30. Fasulo S., Mauceri A., Maisano M., **Giannetto A.** Ruolo svolto dall'Ossido Nitrico in organi respiratori di bassi Vertebrati ed invertebrati acquatici. Gli Aspetti Biologici dell'Ossido Nitrico, 2008.
31. Maisano M., Mauceri A., **Giannetto A.**, Parrino V., Fasulo S., Zaccone G. *Localizzazione di neurotrasmettitori nel cuore di Polypterus bichir bichir*. 68° Unione Zoologica Italiana (U.Z.I.) 2007.
32. **Giannetto A.**, Mauceri A., Parrino V., Maisano M., Limetti F., Minniti F., Fasulo S. *Risposte adattative in Coris julis "stressato" da inquinamento antropico*. 68° Unione Zoologica Italiana (U.Z.I.) 2007.
33. Minniti F., Maisano M., **Giannetto A.**, Mauceri A., Fasulo S. *Espressione genica delle gonadotropine e loro coinvolgimento nella riproduzione di Xiphias gladius*. 53° Congresso Gruppo Embriologico Italiano (G.E.I.) 2007.
34. **Giannetto A.**, M. Maisano, V. Parrino, F. Limetti, A. Mauceri, S. Fasulo. *Morfologia delle branchie ed espressione di metallothioneine: validi biomarkers in esemplari di Mytilus galloprovincialis provenienti da ambienti naturali inquinati*. Società Italiana Biologia Marina. Santa Margherita Ligure (GE), 28 maggio/2 Giugno 2007, p. 236-237.

35. Maisano M., Minniti F., **Giannetto A.**, Mauceri A., Fasulo S. *Immunolocalizzazione ed espressione genica degli ormoni gonadotropi dell'ipofisi del teleosteo Xiphias gladius*. 67° Unione Zoologica Italiana (U.Z.I.). 2006.
36. **Giannetto A.**, Mauceri A., Maisano M., Limetti F., Minniti F., Fasulo S. *Metallotioneine come biomarkers in alcuni organismi acquatici di ambienti inquinati*. 67° Unione Zoologica Italiana (U.Z.I.). 2006.
37. Maisano M., Mauceri A., Lo Cascio P., Isaja M., **Giannetto A.**, Zaccone G. *Immunolocalizzazione di nNOS nelle cellule a fiasco dell'epidermide di Ambystoma tigrinum*. 66° Unione Zoologica Italiana (U.Z.I.) 2005.

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