





PERSONAL INFORMATION



GLORIANA CARDINALETTI

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JOB APPLIED FOR POSITION

Permanent Research Position (RUTI) (art.31 D.P.R. n.382/80), according to the Italian law, I hold the “*abilitazione*” for tenure track associate professor in the academic field 07/G1 discipline AGR/20. Valid until 09/06/2032

WORK EXPERIENCE

- | | |
|---------------------------------|--|
| From 01/09/2009 – to date | <p>Research
Department of Agricultural, Food, Environmental and Animal Sciences - University of Udine –</p> <ul style="list-style-type: none"> ▪ Lecturing with research duties |
| From 14/04/2007 – to 14/11/2008 | <p>Collaboration to Research Activity
Department of Animal Science - University of Udine –</p> <ul style="list-style-type: none"> ▪ Gene expression study in aquaculture fish species |
| From 14/04/2006 – to 15/04/2007 | <p>Collaboration to Research Activity
Department of Animal Science - University of Udine –</p> <ul style="list-style-type: none"> ▪ Gene expression study in aquaculture fish species |
| From 13/06/2005 – to 31/12/2005 | <p>Collaboration to Research Activity
Department of Comparative Morphological and Biochemistry Sciences - University of Camerino –</p> <ul style="list-style-type: none"> ▪ Research activity in the Comparative Endocrinology Laboratory, directed by the Professor Alberta Maria Polzonetti-Magni. |
| From 3/01/2005 – to 3/6/2005 | <p>Collaboration to Research Activity
Department of Comparative Morphological and Biochemistry Sciences - University of Camerino –</p> <ul style="list-style-type: none"> ▪ Research activity in the Comparative Endocrinology Laboratory, directed by the Professor Alberta Maria Polzonetti-Magni. |
| From 19/05/2004 – to 31/12/2004 | <p>Collaboration to Research Activity
Department of Comparative Morphological and Biochemistry Sciences - University of Camerino –</p> <ul style="list-style-type: none"> ▪ Research activity in the Comparative Endocrinology Laboratory, directed by the Professor Alberta Maria Polzonetti-Magni. |
| From 28/07/2003 – to 10/10/2003 | <p>Collaboration to Research Activity
Department of Comparative Morphological and Biochemistry Sciences - University of Camerino –</p> <ul style="list-style-type: none"> ▪ Research activity in the Comparative Endocrinology Laboratory, directed by the Professor Alberta Maria Polzonetti-Magni. |
| From 28/07/2003 – to 10/10/2003 | <p>Collaboration to Research Activity
Department of Comparative Morphological and Biochemistry Sciences - University of Camerino –</p> <ul style="list-style-type: none"> ▪ Research activity in the Comparative Endocrinology Laboratory, directed by the Professor Alberta Maria Polzonetti-Magni. |

EDUCATION AND TRAINING

- | | | |
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| 2006 | Production of aquatic and terrestrial animals and product quality" (XVIIIth cycle) | PhD |
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Department of livestock sciences – University of Florence -

2002

Biology

MSc

Department of Comparative Morphological and Biochemistry Sciences - University of Camerino –

- Effect of different broodstock diets on fecundity-fertility and egg quality in common sole (*Solea solea*)
- Comparative study on the effects of clove oil and 2-phenoxyethanol to induce anesthesia on the physiology and endocrinology parameters in juvenile European sea bass (*Dicentrarchus labrax*) and gilthead seabream (*Sparus aurata*)

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills ▪ good communication skills gained through my experience as teaching and project management

Organisational / managerial skills

Research project:

from 13-12-2022 to date Local partner leadership in the “AcquaInnova project – innovation and Aquaculture: novel feed formulation for a sustainable aquaculture” PO-FEAMP 2014/2020 – Mis. 2.47 – CUP J68H23000040007. Project Coordinator, Center International de Hautes Etudes Agronomiques Méditerranéennes (CIHEAM) - Bari.

from 21-04-2021 to date Collaboration to Research Activity within MIUR-PON Project “Innovation and research” 2014-2020 – PNR Blue Growth 2020 cod. ARS01 00934. “Interventions for the advanced, integrated and sustainable development of aquaculture” - INSAIL. Local partner leadership: Prof.ssa Francesca Tulli – University of Udine.

from 19-05-2019 to 09-10-2019 Leadership in the ChiSea project - “Identification and characterization of gilthead sea bream (*S. aurata*) chitinase genes for New Generation Aqua-feed”. H2020 Research Infrastructures - AQUAEXCEL2020 (grant agreement No. 652831) under TNA project n. AE120006. Research activity developed at the HCMR-IMBBC Crete Greece.

from 01-01-2019 to 30-06-2022 Collaboration to Research Activity within AdriAquaNet project “Enhancing Innovation and Sustainability in Adriatic Aquaculture. ID 10045161 (Interreg V-A Italy-Croatia programme 2014-2020, - Blue innovation). Leadership and Scientific coordinator: Prof. Marco Galeotti - University of Udine. <https://www.italy-croatia.eu/web/adriaquanet>

from 01-12-2018 to 31-12-2020 Collaboration to Research Activity within Start up project “Nutritive value of novel ingredients for aquafeeds: *in vivo* and *in vitro* evaluation” Funded by Department of Agricultural, Food, Environmental and Animal Sciences - University of Udine –. Scientific coordinator: Prof.ssa Francesca Tulli - University of Udine.

from 28-03-2018 to 28-03-2021 Collaboration to Research Activity within CARIVERONA Ricerca Scientifica di Eccellenza 2017. “Novel ingredients and feed sources for valuable fish species production” - NUTRIFISH Project n. 2017.0571. Leadership and Scientific coordinator: Prof. Ike Olivotto - Università Politecnica delle Marche.

from 30-01-2017 to 31-07-2021 Collaboration to Research Activity within AGER-2 Project “Sustainable fish feeds innovative ingredients” - SUSHIN cod. 0112-2016. Leadership and Scientific coordinator: Prof. Emilio Tibaldi – University of Udine. <https://acquacoltura.progettoager.it/index.php/i-progetti-acquacoltura/sushinsustainable-fish-feeds-innovative-ingredients/sushin-i-partner/sushin-partner-Universita-di-Udine>

from 22-07-2013 to 22-07-2016 Collaboration to Research Activity within CRITA Project. FVG Region to foster innovation in the agriculture and fish farming sectors. Local partner leadership: Prof. Emilio Tibaldi - University of Udine.

from 01-01-2011 to 01-01-2014 Collaboration to Research Activity within I.R.IDEA Project. FVG Region to foster innovation in the agriculture and fish farming sectors. Coordinatore e Leadership and Scientific coordinator: Prof. Marco Galeotti - University of Udine.

from 01-01-2010 to 01-01-2012 Collaboration to Research Activity within ALISOL project - "Feed and food protocols setting in organic and conventional breeding of *Solea solea*". Funded by Agenzia Regionale per lo Sviluppo e l'Innovazione nel settore Agricolo- Forestale (ARSIA) Tuscany region. Local partner leadership: Prof. Emilio Tibaldi - University of Udine. Leadership: ORBETELLO PESCA LAGUNARE S.r.l. Orbetello (GR), Italia.

- Computer skills
- good command of Microsoft Office™ tools, SPSS, Maestro CFX
- Laboratory skills
- EIA And ELISA
 - SDS and NATIVE PAGE
 - WESTERN BLOT
 - ENZYMATIC ACTIVITY
 - HPLC
 - GENE EXPRESSION STUDY
- Driving licence
- B

ADDITIONAL INFORMATION

Publications (last 5 years)

1. CATTANEO N., ZARANTONIELLO M., CONTI F., FRONTINI A., CHEMELLO G., DIMICHINO B., MARONGIU F., **CARDINALETTI G.**, GIOACCHINI G., OLIVOTTO I. (2023). Dietary microplastic administration during zebrafish (*Danio rerio*) development: a comprehensive and comparative study between larval and juvenile stages. *Animals*, 13(14), 2256; <https://doi.org/10.3390/ani13142256>
2. RANDAZZO B., DI MARCO P., ZARANTONIELLO M., DANISO E., CERRI R., FINOIA M.G., CAPOCCIONI F., TIBALDI E., OLIVOTTO I., **CARDINALETTI G.** (2023). Effects of supplementing a plant protein-rich diet with insect, crayfish or microalgae meals on gilthead sea bream (*Sparus aurata*) and European seabass (*Dicentrarchus labrax*) growth, physiological status and gut health. *Aquaculture Volume 575*, 739811. <https://doi.org/10.1016/j.aquaculture.2023.739811>
3. ZARANTONIELLO M., OLIVEIRA A.A., SAHIN T., FREDDI L., TORREGIANI M., TUCCIARONE I., CHEMELLO G., **CARDINALETTI G.**, GATTO E., PARISI G., BERTOLUCCI C., RIOLO P., PACETTI D., GIOACCHINI G., OLIVOTTO I. (2023). Rearing European seabass (*Dicentrarchus labrax*) in aquaponic systems feeding with diets included black soldier fly (*Hermetia illucens*): a multidisciplinary study on fish welfare and quality traits. *Animals*, 13(12), 1921; <https://doi.org/10.3390/ani13121921>
4. MESSINA M., IACUMIN L., PASCON G., TULLI F., TIBALDI E., **CARDINALETTI G.** (2023). Effect of feed restriction and refeeding on body condition, digestive functionality and intestinal microbiota in rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*. <https://doi.org/10.1007/s10695-023-01170-z>
5. RATTI S., ZARANTONIELLO M., CHEMELLO G., GIAMMARINO M., PALERMO F.A., COCCI P., MOSCONI G., TIGNANI M.V., PASCON G., **CARDINALETTI G.**, PACETTI D., NARTEA A., PARISI G., RIOLO P., BELLONI A., OLIVOTTO I. (2023). Dietary inclusions of *Hermetia illucens* prepupae meal enriched with *Spirulina (Arthrospira platensis)*: possible beneficial effects on growth and welfare of rainbow trout (*Oncorhynchus mykiss*) juveniles. *Animals*, 13(1), 173; <https://doi.org/10.3390/ani13010173>

Publications (last 5 years)

6. **CARDINALETTI G.**, DI MARCO P., DANISO E., MESSINA M., DONADELLI V., FINOIA M.G., PETOCHI T., FAVA F., FACCENDA F., CONTÒ M., CERRI R., VOLPATTI D., BULFON C., MANDICH A., LONGOBARDI A., MARINO G., TIBALDI E. (2022). Growth and welfare of rainbow trout (*Oncorhynchus mykiss*) in response to graded levels of insect and poultry by-product meals in fishmeal-free diets. *Animals* 12, 1698. <https://doi.org/10.3390/ani12131698>
7. MILANOVIĆ V., CARDINALI F., AQUILANTI L., MAOLONI A., GAROFALO C., ZARANTONIELLO M., OLIVOTTO I., RIOLO P., RUSCHIONI S., ISIDORO N., CORSI L., **CARDINALETTI G.**, OSIMANI A. (2022). Quantification of antibiotic resistance genes in Siberian sturgeons (*Acipenser baerii*) fed *Hermetia illucens*-based diet. *Aquaculture*, 560 <https://doi.org/10.1016/j.aquaculture.2022.738485>
8. ZARANTONIELLO M., PULIDO-RODRIGUEZ L.F., RANDAZZO B., **CARDINALETTI G.**, GIORGINI E., BELLONI A., SECCI G., FACCENDA F., PULCINI D., PARISI G., CAPOCCIONI F., TIBALDI E., OLIVOTTO I. (2022). Conventional feed additives or red claw crayfish meal and dried microbial biomass as feed supplement in fish meal-free diets for rainbow trout (*Oncorhynchus mykiss*): Possible ameliorative effects on growth and gut health status. *Aquaculture*. <https://doi.org/10.1016/j.aquaculture.2022.738137>
9. CHEMELLO G., ZARANTONIELLO M., RANDAZZO B., GIOACCHINI G., CRISTINA TRUZZI C., **CARDINALETTI G.**, RIOLO P., OLIVOTTO I. (2022). Effects of black soldier fly (*Hermetia illucens*) enriched with *Schizochytrium* sp on zebrafish (*Danio rerio*) reproductive performances. *Aquaculture* Volume 550, 737853. <https://doi.org/10.1016/j.aquaculture.2021.737853>
10. VERDILE N., ROLANDO PASQUARIELLO R., **CARDINALETTI G.**, TIBALDI E., AL BREVINI T., GANDOLFI F. (2021). Telocytes: active players in the rainbow trout (*Oncorhynchus mykiss*) intestinal stem cell niche. *Animals* 12, 74. <https://doi.org/10.3390/ani12010074>
11. PULIDO-RODRIGUEZ L.F., **CARDINALETTI G.**, SECCI G., RANDAZZO B., BRUNI L., CERRI R., OLIVOTTO I., TIBALDI E. and PARISI G. (2021). Appetite regulation, growth performances and fish quality are modulated by alternative dietary protein ingredients in gilt-head sea bream (*Sparus aurata*) culture. *Animals*, 11(7), 1919; <https://doi.org/10.3390/ani11071919>
12. CERRI R., NICCOLAI A., **CARDINALETTI G.**, TULLI F., MINA F., DANISO E., BONGIORNO T., CHINI ZITTELLI G., BIONDI N., TREDICI M.R., TIBALDI E. (2021). Chemical composition and apparent digestibility of a panel of dried microalgae and cyanobacteria biomasses in rainbow trout (*Oncorhynchus mykiss*). *Aquaculture* <https://doi.org/10.1016/j.aquaculture.2021.737075>
13. MILANOVIĆ M., AQUILANTI L., MAOLONI A., GAROFALO C., ZARANTONIELLO M., OLIVOTTO I., RIOLO P., RUSCHIONI S., ISIDORO N., CATTALANI M., **CARDINALETTI G.**, CLEMENTI F., OSIMANI A. (2021). Quantitative assessment of transferable antibiotic resistance in zebrafish (*Danio rerio*) fed *Hermetia illucens*-based feed. *Animal Feed Science and Technology*, 114978; <https://doi.org/10.1016/j.anifeedsci.2021.114978>
14. GAUDIOSO G., MARZORATI G., FACCENDA F., WEIL T., LUNELLI F., **CARDINALETTI G.**, MARINO G., OLIVOTTO I., PARISI G., TIBALDI E., TUOHY K.M., FAVA F. (2021). Processed animal proteins from insect and poultry by-products in fish meal-free diet for rainbow trout: impact on intestinal microbiota and inflammatory markers. *International Journal of Molecular Sciences*, 22(11), 5454; <https://doi.org/10.3390/ijms22115454>
15. ZARANTONIELLO M., RANDAZZO B., **CARDINALETTI G.**, TRUZZI C., CHEMELLO G., RIOLO P., OLIVOTTO I. (2021). Possible dietary effects of insect-based diets across zebrafish (*Danio rerio*) generations. *Animals* 2021, 11(3), 751; <https://doi.org/10.3390/ani11030751>
16. RANDAZZO B., ZARANTONIELLO M., **CARDINALETTI G.**, CERRI R., GIORGINI E., BELLONI A., TIBALDI E., OLIVOTTO I. (2021). *Hermetia illucens* and poultry by-product meals as alternatives to plant protein sources in Gilthead seabream (*Sparus aurata*) diet. *Animals*, 11, 677. <https://doi.org/10.3390/ani11030677>

Publications (last 5 years)

17. RANDAZZO B., ZARANTONIELLO M., GIOACCHINI G., **CARDINALETTI G.**, BELLONI A., GIORGINI E., FACCENDA F., CERRI R., TIBALDI E., OLIVOTTO I. (2021). Physiological response of Rainbow trout (*Oncorhynchus mykiss*) to graded levels of *Hermetia illucens* or poultry by-product meals as single or combined substitute ingredients to dietary plant proteins. *Aquaculture* 538; 736550 <https://doi.org/10.1016/j.aquaculture.2021.736550>
18. ZARANTONIELLO M., RANDAZZO B., NOZZI V., TRUZZI C., GIORGINI E., **CARDINALETTI G.**, FREDDI L., RATTI S., GIROLAMETTI F., OSIMANI A., NOTARSTEFANO V., MILANOVIĆ V., RIOLO P., ISIDORO N., TULLI F., GIOACCHINI G., OLIVOTTO I. (2021). Physiological responses of Siberian sturgeon (*Acipenser baerii*) juveniles fed on full-fat insect-based diet in an aquaponics system. *Scientific Report* 11, 1057 <https://doi.org/10.1038/s41598-020-80379-x>
19. DANISO E., TULLI F., **CARDINALETTI G.**, CERRI R., TIBALDI E. (2020). Molecular approach for insect detection in feed and food: the case of *Gryllodes sigillatus*. *European Food Research and Technology* 246, 2373–2381. <https://doi.org/10.1007/s00217-020-03573-1>.
20. RANDAZZO B., ZARANTONIELLO M., GIOACCHINI G., GIORGINI E., TRUZZI C., NOTARSTEFANO V., **CARDINALETTI G.**, HUYEN K.T., CARNEVALI O., OLIVOTTO I. (2020). Can insect-based diets affect zebrafish (*Danio rerio*) reproduction? A multidisciplinary study. *Zebrafish* Vol.15 n.5 pp. 287-304. <https://doi.org/10.1089/zeb.2020.1891>.
21. BRUNI L., **CARDINALETTI G.**, MINA F., OLIVOTTO I., PARISI G., RANDAZZO B., SECCI GIULIA, TULLI F., ZARANTONIELLO M. (2020). Dietary inclusion of full-fat *Hermetia illucens* prepupae meal in practical diets for rainbow trout (*Oncorhynchus mykiss*): lipid metabolism and fillet quality investigations. *Aquaculture*, Volume 529, 735-678 <https://doi.org/10.1016/j.aquaculture.2020.735678>
22. ZARANTONIELLO M., RANDAZZO B., GIOACCHINI G., TRUZZI C., GIORGINI E., RIOLO P., GOIA G., BERTOLUCCI C., OSIMANI A., **CARDINALETTI G.**, LUCON-XICCATO T., MILANOVIĆ V., ANNIBALDI A., TULLI F., NOTARSTEFANO V., RUSCHIONI S., CLEMENTI F., OLIVOTTO I. (2020). Zebrafish (*Danio rerio*) physiological and behavioural responses to insect-based diets: a multidisciplinary approach. *Scientific Report*, 10, 10648 <https://doi.org/10.1038/s41598-020-67740-w>
23. ZARANTONIELLO M., ZIMBELLI A., RANDAZZO B., DELLI CAMPAGNI M., TRUZZI C. ANTONUCCI M., RIOLO P., LORETO N., OSIMANI A., MILANOVIĆ V., GIORGINI E., **CARDINALETTI G.**, TULLI F., CIPRIANI R., GIOACCHINI G., OLIVOTTO I. (2020). Black Soldier Fly (*Hermetia illucens*) reared on roasted coffee by-product and *Schizochytrium* sp. as a sustainable terrestrial ingredient for aquafeeds production. *Aquaculture*, Vol. 518, pp.659-734. <https://doi.org/10.1016/j.aquaculture.2019.734659>.
24. **CARDINALETTI G.**, RANDAZZO B., MESSINA M., ZARANTONIELLO M., GIORGINI E., ZIMBELLI A., BRUNI L., PARISI G., OLIVOTTO I., TULLI F. (2019). Effects of Graded Dietary Inclusion Level of Full-Fat *Hermetia illucens* Prepupae Meal in Practical Diets for Rainbow Trout (*Oncorhynchus mykiss*). *Animal* 9(5) 25. Special Issue Insects: Alternative Protein Source for Animal Feed. <https://doi.org/10.3390/ani9050251>.
25. MESSINA M., BULFON, C., BERALDO, B., TIBALDI, E., **CARDINALETTI G.** (2019). Intestinal morpho-physiology and innate immune status of European sea bass (*Dicentrarchus labrax*) in response to diets including a blend of two marine microalgae, *Tisochrysis lutea* and *Tetraselmis suecica* *Aquaculture* 500, pp.660-669. <https://doi.org/10.1016/j.aquaculture.2018.09.054>