Vittoria Roncalli



Born in Napoli (Italy) on 03/07/1984

Tel.: +39 081 5833340

e-mail: vittoria.roncalli@szn.it Skype: vittoria_roncalli11

Current Position: Research Scientist

Current Affiliation:

Section: Integrated Marine Ecology, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
Department of Biology,	BA	2003-2008	Marine sciences
University of Naples Federico II			
Department of Biology,	MS	2008-2010	Marine sciences
University of Naples Federico II			
Department of Zoology,	Ph.D.	2011-2015	Zoology (Marine sciences)
University of Hawai'i at Manoa			
University of Hawai'i at Manoa	Postdoc	2015-2018	Molecular marine science
and University of Alaska			
Fairbanks			
Department of Genetic,	Postdoc	2018-2019	Evolutionary Development
Univerity of Barcelona			
Stazione Zoologica Anton	Research	2019-	Marine molecular ecology
Dohrn, Napoli, Italy	Scientist	present	

Appointments and awards

Awards

- 2019-IRBio _UB_PR2019, research grant Biodiversity Research Institute (IRBio) of the University of Barcelona, ES (PI: Vittoria Roncalli).
- 2017-Beatriu de Pinos, grant for the recruitment of research staff to incorporate

- as postdoctoral research into Catalan Science and Technology system, University of Barcelona, ES.
- 2016-Juan de la Cierva, grant for the incorporation young researcher, supported by the Agencia Estatal de Investigación, University of Barcelona, ES.
- 2012- Mount Desert Island Biological Laboratory's David W. Towle Fellowship 2012, for the development of an individual project including experimental work performed at the MDIL laboratory, ME.
- 2008-Socrates ERASMUS fellowship at Department of Marine and Environmental Science, U. Cadiz, ES.

Teaching experience

2018- Department of Genetic, Microbiology and Statistics-University of Barcelona, ES (Fall semester, undergraduate course). Instructor "Molecular Genetics"

2015- Department of Marine Biology-University of Hawai'i at Manoa, HI (Fall semester, graduate course). Co-Instructor "Transcriptomic of Non-model Eukaryotes"

2015- Department of Zoology- University of Hawai'i at Manoa, HI (Spring semester, undergraduate course). Teaching Assistant: "Introduction to Biology"

2013- Pacific Biosciences Research Center - University of Hawai'i at Manoa, HI – *Workshop* Co-Instructor "Bioinformatics of gene discovery and annotation from data to paper" for Maximizing Access to Research Careers (MARC)

Work experience

2019-July 21-Aug 3 Scientist on the oceanographic cruise Ocean explores NOAA on board of the vessel "Sikuliaq" in the Gulf of Alaska (GOA) https://oceanexplorer.noaa.gov/explorations/19gulfofalaska/welcome.html

2017-2018 Scientist on oceanographic cruises on board of the vessel "Tiglax" as part of a NSF project in Gulf of Alaska (GOA)

2017-2018 Visiting Scientist at University of Alaska Fairbanks (UAF)

2007-2008 Scientist on Oceanographic cruises on board of the vessel "URANIA" as part of the INTERREG project in the Adriatic Sea

Member of the Editorial Board of:

Marine Genomics, Frontiers in Marine Science Marine Molecular Biology and Ecology, Integrative Comparative Biology

Peer-reviewer for:

Aquaculture, Aquatic Ecology, PLoS one, Journal of Heredity, Journal of Environmental Sciences, Marine Genomics, Frontiers in Marine Science Marine Molecular Biology and Ecology, Environmental Science, Marine environmental research, Conservation Physiology, Genes

Other

Member of Society for Integrative and Comparative Biology (SICB), Association for the Sciences of Limnology and Oceanography (ASLO)

Students' Supervision

2019- Alba Ramon Lainez, Internal tutor for international student mobility program (ERASMUS), University of Barcelona, Biology Department

2019- Raquel Griñán González, Internal tutor for international student mobility program (ERASMUS), University of Barcelona, Biology Department

2018 to 2019-Connie Whiting, University of Barcelona, exchanging student from Manchester University, University of Barcelona, Biology Department

2018- Professor for "Tribunal de TFGs", University of Barcelona, Biology Department

2017-Kyle Nugent, University of Hawai'i at Manoa, undergraduate student, Biology

2016- Justin Suitos, University of Hawai'i at Manoa, undergraduate student, Biology

2015 Stephanie Matthews, University of Hawai'i at Manoa, undergraduate student, Marine Biology

2014-2015 Matthew C. Cieslak, University of Hawai'i at Manoa, undergraduate student, Computer Science

Publications

Journal articles:

Cieslak MC, Castelfranco AM, **Roncalli V**, Lenz PH, Hartline DK (2019) t-Distributed Stochastic Neighbor Embedding (t-SNE): A tool for eco-physiological transcriptomic analysis. Marine Genomics, p.100723.

Roncalli V, Cieslak MC, Germano M, Hopcroft RR, Lenz PH (2019) Regional heterogeneity impacts gene expression in the subarctic zooplankter *Neocalanus flemingeri* in the northern Gulf of Alaska. Communications biology 2, 234.

Lenz PH and **Roncalli V** (2019) Diapause within the context of life history strategies in calanid copepods (Calanoida: Crustacea). Biological Bulletin, 237, 170-179.

Torres-Águila NP, Martí-Solans J, Ferrández-Roldán A., Almazán A, **Roncalli V**, D'Aniello S, Romano G, Palumbo A, Albalat R and Cañestro C (2018) Diatom bloom-derived biotoxins cause aberrant development and gene expression in the appendicularian chordate *Oikopleura dioica*. Communications biology, 1,121.

Christie AE, Yu A, **Roncalli V**, Pascual MG, Cieslak MC, Warner AN, Lameyer TJ, Stanhope ME, Dickinson PS, Hull JJ (2018) Molecular evidence for an intrinsic circadian pacemaker in the cardiac ganglion of the American lobster, *Homarus americanus*. Is diel cycling of heartbeat frequency controlled by a peripheral clock system? Marine genomics, 41, 9-30.

Roncalli V, Sommer SA, Cieslak MC, Clarke C, Hopcroft RR, Lenz PH (2018) Physiological characterization of the emergence from diapause: a transcriptomics approach. Scientific Reports 8, 12577.

- Christie AE, Cieslak, MC, **Roncalli V**, Lenz PH, Major K, Poynton H (2018) Prediction of *Hyalella azteca* (Crustacea; Amphipoda) peptide hormones using a *de novo* transcriptome assembly. Marine Genomics, 38, 67-88.
- **Roncalli V,** Christie AE, Sommer SA, Cieslak MC, Hartline DK, Lenz PH (2017) A deep transcriptomic resource for the copepod crustacean *Labidocera madurae*: a potential indicator species for assessing near shore ecosystem health. PloS one 10, e0186794.
- **Roncalli V**, Lenz PH, Cieslak MC, Hartline DK (2017) Complementary mechanisms for neurotoxin resistance in a copepod. Scientific Reports 7, 14201.
- **Roncalli V,** Cieslak MC, Sommer SA, Hopcroft RR, Lenz PH (2017) *De novo* transcriptome assembly of the calanoid copepod *Neocalanus flemingeri*: a new resource for emergence from diapause. Marine Genomics, 37, 114-119.
- Porter M, Steck M, Roncalli V, Lenz PH (2017) Molecular characterization of copepod photoreception. Biological Bulletin 233, 1,96-110.
- Gandler H, Stanhope M, Shea D, Christie AE, Yu A, LaMeyer T, **Roncalli V**, Cieslak MC and Dickinson P (2017) Peptidergic Modulation in the Lobster Cardiac Neuromuscular System: A transcriptomic analysis of peptides and peptide receptors in cardiac ganglion and muscle. FASEB, 31, 874-8.
- Christie AE, **Roncalli V**, Cieslak MC, Pascual MG, Yu A, Lameyer T, Stahone MF and Dickinson PS (2017) Prediction of a neuropeptidome for the eyestalk ganglia of the lobster *Homarus americanus* using a tissue-specific *de novo* assembled transcriptome. General and Comparative Endocrinology, 243, 96-119.
- Christie AE, **Roncalli V** and Lenz PH. (2016) Diversity of insulin-like peptide signaling system proteins in *Calanus finmarchicus* (Crustacea; Copepoda)-Possible contributors to seasonal preadult diapause. General and Comparative Endocrinology, 236, 157-173.
- **Roncalli V**, Jungbluth MJ and Lenz PH (2016) Glutathione S-Transferase regulation in *Calanus finmarchicus* feeding on the toxic dinoflagellate *Alexandrium fundyense*. PloS one,11, e0159563.
- **Roncalli V**, Cieslak MC, Lenz PH (2016) Transcriptomic responses of the calanoid copepod *Calanus finmarchicus* to the saxitoxin producing dinoflagellate *Alexandrium fundyense*. Scientific Reports, 6, 25708.
- Lauritano C, Romano G, Roncalli V, Amoresano A, Fontanarosa C, Bastianini M, Braga F, Ianora A (2016) New oxylipins produced at the end of a diatom bloom and their effect on copepod reproductive success and gene expression levels. Harmful algae, 55, 221-229.
- **Roncalli V**, Turner JT, Kulis D, Anderson DM and Lenz PH (2016) The effect of the toxic dinoflagellate *Alexandrium fundyense* on the fitness of the calanoid copepod *Calanus finmarchicus*. Harmful Algae, 51, 56-66.
- **Roncalli V**, Cieslak MC, Passamaneck Y, Christie AE, Lenz PH (2015) Glutathione S-transferase (GST) gene diversity in the crustacean *Calanus finmarchicus*-Contributors to cellular detoxifications. PloS one, 10, 5, e0123322.

- Ianora A, Bastianini M, Carotenuto Y, Casotti R, **Roncalli V**, Miralto A, Turner JT (2015) Non-volatile oxylipins can render some diatom blooms more toxic for copepod reproduction. Harmful Algae, 44, 1-7.
- Christie AE, Fontanilla TM, **Roncalli V**, Cieslak MC and Lenz PH (2014) Diffusible gas transmitter signaling in the copepod crustacean *Calanus finmarchicus*: identification of the biosynthetic enzymes of nitric oxide (NO), carbon monoxide (CO) and hydrogen sulfide (H₂S) using a *de novo* assembled transcriptome. General and Comparative Endocrinology, 202, 76-86.
- Lenz PH, **Roncalli V**, Hassett RP, Wu LS, Cieslak MC, Hartline DK and Christie AE (2014) *De novo* assembly of a transcriptome for *Calanus finmarchicus* (Crustacea, Copepoda)—the dominant zooplankter of the North Atlantic Ocean. PloS one, 9, e88589.
- Christie AE, Fontanilla TM, **Roncalli V**, Cieslak MC and Lenz PH. (2014) Identification and developmental expression of the enzymes responsible for dopamine, histamine, octopamine and serotonin biosynthesis in the copepod crustacean *Calanus finmarchicus*. General and Comparative Endocrinology, 195, 28-39.
- Christie AE, **Roncalli V**, Wu LS, Ganote, CL, Doak T and Lenz PH (2013) Peptidergic signaling in *Calanus finmarchicus* (Crustacea, Copepoda): *in silico* identification of putative peptide hormones and their receptors using a *de novo* assembled transcriptome. General and Comparative Endocrinology, 187, 117-135.
- Christie AE, **Roncalli V**, Lona PB, McCoole MD, King BL, Bucklin A, Hartline DK, Lenz PH (2013) *In silico* characterization of the insect diapause-associated protein couch potato (CPO) in *Calanus finmarchicus* (Crustacea: Copepoda). Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 8, 45-57.
- Turner JT, **Roncalli V**, Ciminiello P, Dell'Aversano C, Fattorusso E, Tartaglione L and Ianora A (2012) Biogeographic effects of the Gulf of Mexico red tide dinoflagellate *Karenia brevis*on Mediterranean copepods. Harmful Algae, 16, 63-73.
- Ianora A, Romano G, Carotenuto Y, Esposito F, **Roncalli V**, Buttino I and Miralto A (2011) Impact of the diatom oxylipin 15S-HEPE on the reproductive success of the copepod *Temora stylifera*. Hydrobiologia, 666, 265-275.

Others

- **Roncalli V**, Cieslak MC, Lenz PH (2016) Transcriptomic responses of the calanoid copepod *Calanus finmarchicus* to the saxitoxin producing dinoflagellate *Alexandrium fundyense*. Dryad Digital Repository. pp. DOI: http://dx.doi.org/10.5061/dryad.11978.
- **Roncalli V.** 2015. The effect of the toxic dinoflagellate *Alexandrium fundyense* on the calanoid copepod *Calanus finmarchicus*. Phd dissertation, University of Hawai'i at Manoa.10002221, ProQuest Dissertations Publishing.