Catriona Munro

February 10, 2020

Position & Contact Information

Postdoctoral researcher, Huynh lab

Address: Laboratoire de Biologie du Développement de Villefranche-sur-mer,
06230 Villefranche-sur-mer, France
Phone: (+33) 631-555-379
Website: catrionamunro.science
Email: catriona.munro@college-de-france.fr

Education

2013–2018	PhD Ecology and Evolutionary Biology, Brown University Advisor: Casey W. Dunn
2012–2013	MRes Ocean Science, University of Southampton Advisors: Sven Thatje, Chris Hauton
2008–2011	BSc Biology, First Class Honours, University College London

Professional Appointments

10/2018–present	Postdoctoral Researcher, Huynh lab, Collège de France

Peer-Reviewed Publications

Munro C, Vue Z, Behringer RR, Dunn CW (2019). Morphology and development of the Portuguese man of war, *Physalia physalis*. Scientific Reports. 9:15522 doi: 10.1038/s41598-019-51842-1

Munro C, Siebert S, Zapata F, Howison M, Damian-Serrano A, Church SH, Goetz FE, Pugh PR, Haddock SHD, Dunn CW (2018) Improved phylogenetic resolution within Siphonophora (Cnidaria) with implications for trait evolution. Molecular Phylogenetics and Evolution. 127:823-833 doi: 10.1016/j.ympev.2018.06.030

Brown A, Thatje S, Oliphant A, **Munro C**, Smith KE (2018). Temperature adaptation in larval development of lithodine crabs from deep-water lineages. Journal of sea research. 142:167-173

Brown A, Thatje S, Oliphant A, **Munro C**, Smith KE (2018). Temperature effects on larval development in the lithodid crab *Lithodes maja*. Journal of Sea Research. 139:73-84

Dunn CW, Zapata F, **Munro C**, Siebert S, Hejnol A (2018). Pairwise comparisons are problematic when analyzing functional genomic data across species. Proceedings of the National Academy of Sciences. doi:10.1073/pnas.1707515115.

Dunn CW, **Munro C** (2016) Comparative genomics and the diversity of life. Zoologica Scripta. 45:5-13. doi:10.1111/zsc.12211

Munro C, Morris JP, Brown A, Hauton C, Thatje S (2015). The role of ontogeny in physiological tolerance: decreasing hydrostatic pressure tolerance with development in the northern stone crab *Lithodes maja*. Proceedings of the Royal Society of London B. 282(1809): 20150577 doi: 10.1098/rspb.2015.0577

Shank TM, Baker ET, Embley RW, Hammond S, Holden JF, White S, Walker SL, Calderon M, Herrera S, Lin TJ, **Munro C**, Heyl T, Stewart L, Malik M, Lobecker M, Potter J (2012) GALREX 2011: Exploration of the Deep-Water Galapagos Region. Oceanography 25 Suppl.: 50-51.

Fellowships and Grants

May 2019–May 2021	Marie Sklodowska-Curie Individual Fellowship (proposal no. 841433 - JOLI) €196,707.84
June 2017–May 2018	NSF Doctoral Dissertation Improvement Grant (award no. 1701272) $21,028
May–June 2017	EMBRC-France funding (main PI: Casey Dunn)
April–May 2016	EMBRC-France funding (main PI: Casey Dunn)
2014–2015	RI-EPSCoR Graduate Student Fellowship (full tuition and stipend)

Academic Awards and Scholarships

March 2016	MBL Embryology Post-Course research
May 2014	Travel Award, Evolution of the First Nervous Systems II Meeting
2012–2013	Society for Underwater Technology, Educational Support Fund (full Masters' degree tuition)
2011	Dean's List, UCL
	Lilian Clarke Prize, UCL
2008–2011	Harold and Olga Fox Scholarship, UCL
2009	Darwin Prize, UCL

Research Positions

2012	**Research Assistant** Shank Lab, Woods Hole Oceanographic Institution
2011	**Summer Student Fellow, then Guest Student** Shank Lab, Woods Hole Oceanographic Institution

Conference Presentations

†Oral, ‡Poster, presenting author

‡**Munro C**, E Houliston, J-R Huynh (2019) The jellyfish *Clytia hemisphaerica*: a new model for meiosis research. EMBO Workshop on Meiosis, La Rochelle, France

†**Munro C**, S Siebert, F Zapata, CW Dunn (2018) Siphonophore Differential Gene Expression Patterns Analyzed within a Phylogenetic Context. SICB Meeting, San Francisco CA

††**Munro C**, S Siebert, M Howison, F Zapata, CW Dunn (2016) Gene expression patterns in siphonophore zooids, Hydroidfest, Bodega CA

‡**Munro C**, S Siebert, M Howison, F Zapata, CW Dunn (2016) Exploring the evolution of functional specialization in siphonophores using RNAseq, SICB Meeting, Portland OR

†**Munro C**, GW Luther III, RA Lutz, C Vetriani, TS Moore, S Herrera, TM Shank (2012) Temporal and spatial patterns of in situ community structure using time-lapse camera systems at a vent field on the East Pacific Rise, 13th International Deep-Sea Biology Symposium, Wellington New Zealand

Teaching

Instructor, Marie Curie ITN "EvoCELL" Computational Biology short course (PhD level), Class preparation, coordination, and teaching. 3-14 June 2019. https://github.com/cmunro/evocell
Guest Lecture & Lab, Plankton diversity, ISMA course Villefranche (Undergraduate level), 25 April 2019
Short project supervisor, Development of Marine Organisms Villefranche training course (Sorbonne Université, Master's level)
- The role of Spo11 in meiosis in the gonad of *Clytia hemisphaerica*, 13-19 December 2019
- Identification of germ cell stem cells in *Clytia hemisphaerica*, 11-15 March 2019
Graduate Teaching Assistant, Brown University
- Invertebrate Zoology (Undergraduate level): Fall semester, 2014
- Invertebrate Zoology (Undergraduate level): Fall semester, 2013
Guest Lecture, University of Rhode Island, BIO460 Pelagic Ecology, 6 August 2014

Mentoring

16 March - 15 May 2020 - Bastien Salmon, Sorbonne Université Master 1 internship
Fall 2015 - Nicola Malakooti, undergraduate senior thesis

Scientific Expeditions

R/V Western Flyer, ROV Doc Ricketts, Gulf of California, Mexico, March 8-16, 2015. Chief scientist: Steven Haddock
R/V Western Flyer, ROV Doc Ricketts, Monterey Bay, U.S.A, September 16-22, 2014. Chief scientist: Steven Haddock
R/V Endeavor, North East Atlantic, U.S.A, August 13-18, 2014. Chief scientist: Brad Seibel
R/V Western Flyer, ROV Doc Ricketts, Monterey Bay, U.S.A, May 17-23, 2014. Chief scientist: Steven Haddock
R/V Western Flyer, ROV Doc Ricketts, Monterey Bay, U.S.A, November 19-24, 2013. Chief scientist: Steven Haddock
R/V Falkor, ROV Global Explorer MK3, Deep-Sea Coral Shakedown cruise, Gulf of Mexico U.S.A, August 26 - September 6, 2012. Chief scientist: Peter Etnoyer
M/V Holiday Chouest, ROV UHD 34, HC3 Leg 1 and 2. October 2-26, 2011. Gulf of Mexico, U.S.A. Chief scientists: Charles Fisher and Erik Cordes

Science Outreach

Public outreach
5 Oct 2019 – Fête de la Science, Institut de la Mer de Villefranche. Presenting marine organisms and their biology to members of the public.
Feb 2016 – Feb 2018, Hennessy Elementary School, Brown Junior Researchers Program (weekly after-school science class, 5th grade students)

Science Writing
Munro, C. (2015) A day in the life of a siphonophore lab. http://thenode.biologists.com/a-day-in-the-life-of-a-siphonophore-lab/lablife/
Munro, C., S. Herrera, T. Heyl Muric (2011) Exploring the Paramount Seamounts. http://oceanexplorer.noaa.gov/okeanos/explorations/ex1103/logs/july14/july14.html

Courses and Workshops

Jun 7- Jul 18 2015	MBL Embryology, Woods Hole MA

Additional Skills

Languages	English (native), Russian (conversational), French (conversational)
Computing	Extensive experience with large datasets (RNAseq). R, shell scripting. Work in MacOS, Linux. (Bitbucket: cmunro, Github: cmunro)
Diving	AAUS Scientific Diver (#588470), SDI Rescue Diver, SSI Advanced Open Water Diver