Catriona Munro

Postdoctoral researcher · Huynh lab Collège de France & Clytia team LBDV
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Education

PhD Ecology and Evolutionary Biology, Brown University 2018

MRes Ocean Science, University of Southampton 2013

BSc Biology, University College London 2011

Professional Experience

2018–present Postdoctoral Researcher
Huynh lab, Collège de France & Clytia team, LBDV

Peer-Reviewed Publications

Jessus C, **Munro C**, Houliston E (2020). Managing the Oocyte Meiotic Arrest — Lessons from Frogs and Jellyfish. Cells. 9:1150 doi: 10.3390/cells9051150

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 Awards

2019 Marie Sklodowska-Curie Individual Fellowship (#841433) €196,707.84
2017 NSF Doctoral Dissertation Improvement Grant (#1701272) $21,028
2017 EMBRC-France funding (main PI: Casey Dunn)
2016 EMBRC-France funding (main PI: Casey Dunn)
2016 MBL Embryology Post-Course research
2014 RI-EPSCoR Graduate Student Fellowship (full tuition and stipend)
2012 Society for Underwater Technology, Educational Support Fund (full tuition)

Conference Activity

†Oral, ‡Poster

‡**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 Experience

Marie Curie ITN Workshop, Instructor

Computational Biology short course (PhD level). Marie Curie ITN "EvoCELL". 3-14 June 2019. Course materials: https://github.com/cmunro/evocell

Sorbonne Université

Plankton diversity (Undergraduate level). Guest Lecture & Lab. 25 April 2019.

Development of Marine Organisms (Master's level). Short project supervisor. 13-19 December 2019; 11-15 March 2019.

Brown University, Teaching Assistant

Invertebrate Zoology. Fall semester, 2014; Fall semester, 2013.

Other teaching

University of Texas at Austin. Introductory Biology 2. Guest Lecture: "Jellyfish meiosis in Villefranche-sur-Mer", 26 June 2020.
University of Rhode Island. Pelagic Ecology. Guest Lecture. 6 August 2014

Mentoring

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

Research Experience

2012 Research Assistant, Shank Lab, Woods Hole Oceanographic Institution

Professional Service

Peer review

Publons review records: https://publons.com/researcher/AAP-8755-2020/
Journal of Experimental Zoology (3)

To community

Fête de la Science, Institut de la Mer de Villefranche. Oct 2019.
Hennessy Elementary School, Brown Junior Researchers Program (after school science class). Feb 2016 – Feb 2018.

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

Other Professional Experience

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

Languages

English (native), Russian (conversational), French (conversational)