

Curriculum Vitae
Hannah Murphy, Ph.D.
Research Scientist
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Education

Ph.D. in Marine Ecology, The University of Melbourne (2012)

Thesis: What drives recruitment variability in snapper (*Chrysophrys auratus*, Sparidae)?

Supervisors: Professor Gregory Jenkins, Dr. Paul Hamer, Professor Stephen Swearer

BSc (Honours), University of Melbourne (2007)

BSc, University of British Columbia (2002)

Post-doctoral Research Fellowship

Marine Institute of Memorial University of Newfoundland (2013-2016)

Supervisor: Dr. Dominique Robert

Academic affiliations

Adjunct Professor, Department of Biological Sciences, University of Manitoba (2018-2021)

Adjunct Professor, School of Fisheries at the Fisheries and Marine Institute of Memorial University of Newfoundland (2018-2020)

Grants

DFO's Strategic Program for Ecosystem-based Research and Advice 2017-2019 (\$150,000 over three years): Primary Investigator on a 3-year project on the predator-prey dynamics of Atlantic herring and capelin.

Recent journal articles (2015-2020)

(* : authors contributed equally to paper; underlined: student-led research)

9. Tripp, A., **Murphy, H. M.**, Davoren, G. K. (2020) Otolith chemistry reveals natal region of larval capelin in coastal Newfoundland, Canada. *Frontiers in Marine Science*.
<https://doi.org/10.3389/fmars.2020.00258>
8. Lewis, K.P., Buren, A. D., Regular, P.M., Mowbray, F., **Murphy, H.M.** (2019) Predicting capelin (*Mallotus villosus*) abundance on the Newfoundland shelf using indices of mortality and recruitment. *Marine Ecology Progress Series* 616: 171-183
<https://doi.org/10.3354/meps12930>
7. Buren, A.D.*, **Murphy, H.M.***, Adamack, A.T., Davoren, G. K., Koen-Alonso, M., Montevicchi W. A., Mowbray, F. K., Pepin, P., Regular, P. M., Robert, D., Rose, G. A., Stenson, G., Varkey, D. (2019) The collapse and continued low productivity of a keystone forage species. *Marine Ecology Progress Series* 616: 155-170 <https://doi.org/10.3354/meps12924>.
6. Wilson, C. J., **Murphy, H. M.**, Bourne, C., Pepin, P. Robert, D. (2018) Feeding ecology of autumn-spawned Atlantic herring (*Clupea harengus*) larvae in Trinity Bay, Newfoundland: is recruitment linked to main prey availability? *Journal of Plankton Research*.
doi:10.1093/plankt/fby003
5. **Murphy, H. M.**, Pepin, P., Robert, D. (2018) Re-visiting the drivers of capelin recruitment in Newfoundland since 1991. *Fisheries Research* 200: 1-10
<https://doi.org/10.1016/j.fishres.2017.12.005>
4. Le Bris, A., Fisher, J. A. D., **Murphy, H. M.**, Galbraith, P. S., Castonguay, M., Loher, T., Robert, D. (2018) Migration patterns and putative spawning habitats of Atlantic halibut

- (*Hippoglossus hippoglossus*) in the Gulf of St. Lawrence inferred from pop-up archival satellite tags. ICES Journal of Marine Science 75(1): 135-147 doi:10.1093/icesjms/fsx098
3. **Murphy, H. M.**, Fisher, J. A. D., Le Bris, A., Desgagnés, M., Castonguay, M., Loher, T., Robert, D. (2017) Characterization of depth distributions, temperature associations, and seasonal migrations of Atlantic halibut in the Gulf of St. Lawrence using pop-up satellite archival tags. Marine and Coastal Fisheries 9(1): 341-356, DOI: 10.1080/19425120.2017.1327905
 2. Pepin, P. *, Robert, D. *, Bouchard, C., Dower, J. F., Falardeau, M., Fortier, L., Jenkins, G. P., Leclerc, V., Levesque, K., Llopiz, J. K., Meekan, M. G., **Murphy, H. M.**, Ringuette, M., Sirois, P., Sponaugle, S. (2015) Once upon a larva: Revisiting the relationship between feeding success and growth in fish larvae. ICES Journal of Marine Science 72 (2): 359-373, DOI: 10.1093/icesjms/fsu201
 1. **Murphy, H. M.**, Bungay, T., Stern, E. W., Winger, P. D., Robert, D. (2015) Measurement of warp loads of bongo plankton samplers. Fisheries Research, 162: 43-46, DOI 10.1016/j.fishres.2014.09.012.

Recent peer-reviewed conference presentations (2017-2020)

(underlined: student-led research; presenter is first name in list)

10. Morrison, S., **Murphy, H.**, Mowbray, F., Davoren, G. (2020) Sand lance (*Ammodytes* spp) biomass and distribution on the Newfoundland Shelf. Canadian Conference for Fisheries Research, Halifax, NS 2-5 January 2020
9. Tripp, A., **Murphy, H.**, Davoren, G. (2020) Distinguishing natal habitat of Newfoundland Capelin (*Mallotus villosus*) using otolith microchemistry. Canadian Conference for Fisheries Research, Halifax, NS 2-5 January 2020
8. Tripp, A., Loepky, A., **Murphy, H.**, Davoren, G. (2019) Distinct otolith microchemistry signatures of larval capelin (*Mallotus villosus*) from Newfoundland and Nunavut. 43rd Annual Larval Fish Conference, Palma de Mallorca, Spain 21-24 May 2019
7. Randall, J. R., **Murphy, H. M.**, Robert, D., Geoffroy, M. (2019) Occurrence of ichthyoplankton in autumn herring diets of eastern Newfoundland. 43rd Annual Larval Fish Conference, Palma de Mallorca, Spain 21-24 May 2019
6. **Murphy, H. M.**, Lewis, K. P., Buren, A.D., Regular, P. M., Mowbray, F. (2019) Using the early life history stage in the development of a capelin (*Mallotus villosus*) forecast model. 43rd Annual Larval Fish Conference, Palma de Mallorca, Spain 21-24 May 2019
5. **Murphy, H.M.** (2018) Left high and dry: the importance of getting off the beach for capelin survival. 42nd Annual Larval Fish Conference, Victoria, BC, 24-28 June 2018
4. **Murphy, H.M.** (2018) Left high and dry: the importance of getting off the beach for capelin survival. Canadian Conference for Fisheries Research, Edmonton, AB, 4-7 January 2018
3. **Murphy, H. M.**, Pepin, P., Robert, D. (2017) Re-visiting the drivers of capelin recruitment in Newfoundland since 1991. ICES Annual Science Conference, Fort Lauderdale, FL, USA, 18-21 September 2017
2. Robert, D., Le Bris, A., Fisher, J.A.D., **Murphy, H.M.**, Peter S. Galbraith, Castonguay, M., Loher, T. (2017) Distribution and habitat use of Gulf of St. Lawrence Atlantic halibut (*Hippoglossus hippoglossus*) revealed through satellite tagging. International Flatfish Symposium. Saint-Malo, France, 11-16 November 2017.
1. Robert, D., Wilson, C. J., Kamada, D., **Murphy, H. M.** (2017) Link between prey availability during the larval stage and recruitment strength in small pelagic fish. Drivers of dynamics of small pelagic fish resources, Victoria, BC, 6-11 March 2017.

Co-supervision of graduate students

4. Ashley Tripp (2018-present), PhD candidate, University of Manitoba
3. Jessica Randall (2018-2020), MSc student, Memorial University of Newfoundland
2. Carissa Currie (2013-2016), MSc student, Memorial University of Newfoundland

1. Fletcher Warren-Myers (2010-2012), MSc student, The University of Melbourne

Professional memberships

2014-2021 Early life history section of American Fisheries Society
2014-2021 American Fisheries Society
2008-2013 Australian Society of Fish Biology

References

Christina Bourne
Acting Section Head, Pelagic Section
Northwest Atlantic Fisheries Centre, Fisheries and Oceans Canada
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Dr Dominique Robert
Canada Research Chair in Fisheries Ecology
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