

Scientific production ensuing from the theses defended on the PhD programme in Marine Ecology

Year of viva	Doctorand	Thesis title
2017	Carlos Díaz Gil	Settlement and recruitment processes in fish species of interest for recreational fisheries

Ensuing scientific contributions

Catalán, I. A., Alós, J., Díaz-Gil, C., Pérez-Mayol, S., Basterretxea, G., Morales-Nin, B., & Palmer, M. (2018). Potential fishing-related effects on fish life history revealed by otolith microchemistry. *Fisheries Research*, 199, 186–195. <https://doi.org/10.1016/j.fishres.2017.11.008>
Q1, IF: 2.34 (2018)

Díaz-Gil, C., Alós, J., Arechavala-lopez, P., Palmer, M., Riera-batlle, I., Grau, A., & Catalán, I. A. (2020). Reversible morphological changes in a juvenile marine fish after exposure to predatory alarm cues. *Royal Society Open Science*, 7. <https://doi.org/http://dx.doi.org/10.1098/rsos.191945>
Q1, IF: 2.515 (2019)

Díaz-Gil, C., Catalán, I. A., Palmer, M., Faulk, C. K., & Fuiman, L. A. (2015). Ocean acidification increases fatty acids levels of larval fish. *Biology Letters*, 11(7). <https://doi.org/10.1098/rsbl.2015.0331>
Q1, IF: 3.035 (2015)

Díaz-Gil, C., Cotgrove, L., Smea, S. L., Simón-Otegui, D., Hinz, H., Grau, A., ... Catalán, I. A. (2017). Anthropogenic chemical cues can alter the swimming behaviour of juvenile stages of a temperate fish. *Marine Environmental Research*, 125, 34–41. <https://doi.org/10.1016/j.marenvres.2016.11.009>
Q1, IF: 3.206 (2017)

Díaz-Gil, C., Grau, A., Grau, A. M., Palmer, M., Cabrera-Castro, R., Jordà, G., ... Catalán, I. A. (2019). Changes in the juvenile fish assemblage of a Mediterranean shallow *Posidonia oceanica* seagrass nursery area after half a century. *Mediterranean Marine Science*, 4(3), 57–66. <https://doi.org/https://doi.org/10.12681/mms.19510>
Q1, IF: 1.811 (2019)

Díaz-Gil, C., Palmer, M., Catalán, I. A., Alós, J., Fuiman, L. A., García, E., ... Morales-Nin, B. (2015). Otolith fluctuating asymmetry: a misconception of its biological relevance? *ICES Journal of Marine Science*, 72(7), 2079–2089. <https://doi.org/10.1093/icesjms/fsv067>
Q1, IF: 2.357 (2015)

Díaz-Gil, C., Smee, S. L., Cotgrove, L., Follana-Berná, G., Hinz, H., Marti-Puig, P., ... Catalán, I. A. (2017). Using stereoscopic video cameras to evaluate seagrass meadows nursery function in the Mediterranean. *Marine Biology*, 164(6), 137. <https://doi.org/10.1007/s00227-017-3169-y>

Year of viva	Doctorand	Thesis title
2018	Eduarne Blanco Rodríguez	Experimental studies on growth and survival in Atlantic bluefin tuna (<i>Thunnus thynnus</i>) and Atlantic bonito (<i>Sarda sarda</i>) larvae: Effects of light, food availability and temperature on their physiology and behaviour

Ensuing scientific contributions

2

Blanco, E., Reglero, P., Hernández de Rojas, A., Ortega, A., De la Gándara, F., Folkvord, A. (submitted). The effect of nutritional condition on the growth to post-flexion of Atlantic bluefin tuna and Atlantic bonito larvae. *Journal of Experimental Marine Biology and Ecology*. (Chapter 3).
Q2, IF: 2.365

Blanco, E., Reglero, P., Ortega, A., De la Gándara, F., Folkvord, A., 2018. Size selective mortality of laboratory-reared Atlantic bluefin tuna larvae: evidence from microstructure analysis of otoliths during the piscivorous phase. *Journal of Experimental Marine Biology and Ecology* 509, 36-43. (Chapter 4).
Q2, IF: 2.365

Blanco, E., Reglero, P., Ortega, A., De la Gándara, F., Fiksen, Ø., Folkvord, A., 2017. The effects of light, darkness and intermittent feeding on the growth and survival of reared Atlantic bonito and Atlantic bluefin tuna larvae. *Aquaculture* 479, 233-239. (Chapter 5).
Q1, IF: 3.022

Reglero, P., Blanco, E., Alemany, F., Ferrá, C., Alvarez-Berastegui, D., Ortega, A., De la Gándara, F., Aparicio-González, A., Folkvord, A., 2018. Vertical distribution of Atlantic bluefin tuna *Thunnus thynnus* and bonito *Sarda sarda* larvae is related to temperature preference. *Marine Ecology Progress Series* 594, 231-243. (Chapter 7).
Q2, IF: 2.359

Year of viva	Doctorand	Thesis title
2019	Maria Teresa Farriols Garau	Diversity of demersal fish assemblages in the Mediterranean.

Ensuing scientific contributions

Publications.

- **Farriols M.T.**, F. Ordines, P. Carbonara, L. Casciaro, M. Di Lorenzo, A. Esteban, C. Follesa, C. García-Ruiz, I. Isajlovic, A. Jadaud, A. Ligas, C. Manfredi, B. Marceta, P. Peristeraki, N. Vrgoc & E. Massutí (2019).- Spatio-temporal trends in diversity of demersal fish assemblages along the Mediterranean. *Scientia Marina*, 83S1: 189-206. <https://doi.org/10.3989/scimar.04977.13A>. Impact factor: 1.252.
- **Farriols M.T.**, F. Ordines, P.J. Somerfield, C. Pasqual, M. Hidalgo, B. Guijarro & E. Massutí (2017).- Bottom trawl impacts on Mediterranean demersal fish diversity: Not so obvious or are we too late?. *Continental Shelf Research*, 137: 84-102. <https://doi.org/10.1016/j.csr.2016.11.011>. Impact factor: 2.134. 2nd quartile.
- **Farriols M.T.**, F. Ordines, M. Hidalgo, B. Guijarro & E. Massutí (2015).- N_{90} index: A new approach to biodiversity based on similarity and sensitive to direct and indirect fishing impact. *Ecological Indicators*, 52: 245-255. <https://doi.org/10.1016/j.ecolind.2014.12.009>. Impact factor: 4.490. 1st quartile.
- **Farriols M.T.**, F. Ordines, M. Hidalgo & E. Massutí (2014).- N_{90} index: A new approach to biodiversity based on similarity and sensitive to direct and indirect fishing impact [Abstract]. En: Ríos P., Suárez L.A., y J. Cristobo (Eds.). *XVIII Simposio Ibérico de Estudios de Biología Marina. Libro de resúmenes*. Centro Oceanográfico de Gijón. 252 pp.

Conferences

- **Farriols M.T.**, F. Ordines, M. Hidalgo & E. Massutí (2014).- N_{90} index: A new approach to biodiversity based on similarity and sensitive to direct and indirect fishing impact. 18th Iberian Symposium on Marine Biology SIEBM, Gijón, 2nd-5th September 2014. (oral presentation).

Year of viva	Doctorand	Thesis title
2019	Joan Salvador Font Muñoz	Caracterización de la estructura de tamaños y composición del fitoplancton marino mediante difracción láser.

Ensuing scientific contributions

Font-Muñoz, J. S., Jeanneret, R., Tuval, I., & Basterretxea, G. (2020). Method for the determination of preferential orientation of marine particles from laser diffraction measurements. *Optics Express*, 28(9), 14085-14099.

Basterretxea, G., Font-Munoz, J. S., & Tuval, I. (2020). Phytoplankton orientation in a turbulent ocean: a microscale perspective. *Frontiers in Marine Science*, 7, 185.

Font-Muñoz, J. S., Jeanneret, R., Arrieta, J., Anglès, S., Jordi, A., Tuval, I., & Basterretxea, G. (2019). Collective sinking promotes selective cell pairing in planktonic pennate diatoms. *Proceedings of the National Academy of Sciences*, 116(32), 15997-16002.

Q1, IF: 3.086

Salgado-Hernanz, P. M., Racault, M. F., Font-Muñoz, J. S., & Basterretxea, G. (2019). Trends in phytoplankton phenology in the Mediterranean Sea based on ocean-colour remote sensing. *Remote Sensing of Environment*, 221, 50-64.

Q1, IF: 8.218

Basterretxea, G., Font-Muñoz, J. S., Salgado-Hernanz, P. M., Arrieta, J., & Hernández-Carrasco, I. (2018). Patterns of chlorophyll interannual variability in Mediterranean biogeographical regions. *Remote Sensing of Environment*, 215, 7-17.

Q1, IF: 8.218

Font-Muñoz, J. S., Jordi, A., Anglès, S., Ferriol, P., Garcés, E., & Basterretxea, G. (2018). Assessing phytoplankton community composition using combined pigment and particle size distribution analysis. *Marine Ecology Progress Series*, 594, 51-63.

Q2, IF: 2.359

Basterretxea, G., Torres-Serra, F. J., Alacid, E., Anglès, S., Camp, J., Ferrera, I., ... & Salgado-Hernanz, P. M. (2018). Cross-shore environmental gradients in the western mediterranean coast and their influence on nearshore phytoplankton communities. *Frontiers in Marine Science*, 5, 78.

Q1, IF: 3.086

Font-Muñoz, J. S., Jordi, A., Tuval, I., Arrieta, J., Anglès, S., & Basterretxea, G. (2017). Advection by ocean currents modifies phytoplankton size structure. *Journal of the royal society interface*, 14(130), 20170046.

Q1, IF: 3.224

Font-Muñoz, J. S., Jordi, A., Anglès, S., & Basterretxea, G. (2015). Estimation of phytoplankton size structure in coastal waters using simultaneous laser diffraction and fluorescence measurements. *Journal of Plankton Research*, 37(4), 740-751.

Q2, IF: 2.209

Rodellas, V., Garcia-Orellana, J., Masqué, P., & Font-Muñoz, J. S. (2015). The influence of sediment sources on radium-derived estimates of Submarine Groundwater Discharge. *Marine Chemistry*, 171, 107-117.

Q1, IF: 2.713

Year of viva	Doctorand	Thesis title
2019	Laura Pereda Briones	Seagrass ecology: environmental conditions and processes that affect the establishment and fate of seedlings

Ensuing scientific contributions

Pereda-Briones L, Infantes E, Orfila A, Tomas F, Terrados J. 2018. Dispersal of seagrass propagules: interaction between hydrodynamics and substratum type. *Marine Ecology Progress Series*, 593, 47-59. (Chapter 1).

Q2, IF: 2.359

Pereda-Briones L, Terrados J, Tomas F. 2019. Negative effects of warming on seagrass seedlings are not exacerbated by invasive algae. *Marine Pollution Bulletin*, 141, 36- 45. (Chapter 3).

Q1, IF: 3.782

Year of viva	Doctorand	Thesis title
2019	Paula Maria Salgado Hernanz	Patterns of phytoplankton and primary production variability in the Mediterranean Sea based on remote sensing data.

Ensuing scientific contributions

Salgado-Hernanz, P.M., Racault, M.-F., Font-Muñoz, J.S., Basterretxea, G. Trends in phytoplankton phenology in the Mediterranean Sea based on ocean-color remote sensing. Remote Sensing of the Environment (ISSN 0034-4257), volume 221, February 2019, pages 50-64. doi: 10.1016/j.rse.2018.10.036.

Q1, IF: 8.218

Basterretxea, G., Font-Muñoz, J.S., Salgado-Hernanz, P.M., Arrieta, J., Hernández-Carrasco, I., 2018. Patterns of chlorophyll interannual variability in Mediterranean biogeographical regions. Remote Sensing of the Environment (ISSN 0034-4257), volume 215, 15 September 2018, pages 7-17. doi: 10.1016/j.rse.2018.05.027.

Q1, IF: 8.218