Davide Spatafora

Born in Palermo (Italy) on 09/01/1987

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Current Position: Researcher

Current Affiliation:
Integrative Marine Ecology Department, Stazione Zoologica Anton Dohrn, Palermo (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University of Palermo (Italy)	Bachelor	2004-2012	Marine Biology
University of Palermo (Italy)	Master (Laurea)	2012-2014	Marine Ecology
University of Palermo (Italy)	Ph.D.	2017-2021	Role of behaviour in marine organisms: potential effects under future ocean conditions.
University of Tsukuba (Japan)	Postdoc	2022-2023	ICONA, International CO2 Natural Analogues Network
Stazione Zoologica Anton Dohrn, Napoli, Italy	Researcher	2023-present	Marine Ecology and Conservation

Appointments and awards

2015: Award for the best poster at 46° Congresso della Società Italiana di Biologia Marina (S.I.B.M.), Roma.

2015-2016: Visiting scholar for the project: "Transgenerational phenotypic plasticity and rapid adaptation to multiple global change drivers, and the fate of global biodiversity patterns' founded by Fonds Institutionnel De Recherche (FIR) 2014 of the UQAR Foundation. University of Quebec at Rimouski UQAR, Quebec (Canada).

2017 – 2019: Involved in the project Interreg Med FishMPABlue 2

2019: Involved in the project "Thermal preference, physiology and behavior of fish" at the Department of Biology, Norwegian University of Science and Technology (NTNU), NO-7491 Trondheim, NORWAY.

2019: Involved in the project "Scientific monitoring" – Marine Strategy– AMP Egadi Islands- "Patella ferruginea", "Pinna nobilis", "Fauna ittica", "Praterie di Posidonia oceanica".

2022: Involved in the project "Scientific monitoring" – Marine Strategy– AMP Egadi Islands- corraligenous habitat

2022-2023 Involved in the project ICONA: International CO_2 Natural Analogues Network

2023- Present: Involved in the •PNRR "NBFC" National Biodiversity Future Center

2023: Award Cattaneo-Vietti for the best PhD thesis. Stazione Zoologica Anton Dohrn - Istituto Nazionale di Biologia, Ecologia e Biotecnologie Marine l'Università degli Studi di Genova e l'Università Politecnica delle Marche

Publications

List of publications of the last 10 years

Peer-reviewed publications:

Heitzman, M. J., Mitushasi, M., **Spatafora, D.,** Agostini, S. (2023). Seasonal coral-algae interactions drive White Mat Syndrome coral disease outbreaks. Science of The Total Environment, 900, 166379. https://doi.org/10.1016/j.scitotenv.2023.166379

Spatafora, D., Gristina, M., Quattrocchi, F., Pierri, C., Lazic, T.,Palma, J. (2023). Different behavioural strategies of two sympatric seahorses: habitat availability and increased density of *Hippocampus guttulatus* alter the behaviour of *Hippocampus hippocampus*. Frontiers in Marine Science, 10,1138296. 10.3389/fmars.2023.1138296

Cattano, C., Calò, A., Aglieri, G., Cattano, P., Di Lorenzo, M., Grancagnolo, D., Lanzarone, D., Principato, E., **Spatafora, D.,** Turco, G., Milazzo, M. (2022). Literature, social media and questionnaire surveys identify relevant conservation areas for Carcharhinus species in the Mediterranean Sea. Biological Conservation, 277, 109824. https://doi.org/10.1016/j.biocon.2022.109824.

Aglieri, G., Quattrocchi, F., Mariani, S., Baillie, C**., Spatafora, D.,** Di Franco, A., Turco, G., Tolone, M., Di Gerlando, R., Milazzo, M. (2023). Fish Edna Detections in Ports Mirror Fishing Fleet Activities and Highlight the Spread of Non-Indigenous Species in the Mediterranean Sea. Marine Pollution Bulletin, 189,114792. https://doi.org/10.1016/j.marpolbul.2023.114792

Spatafora, D., Cattano, C., Quattrocchi, F., Turco, G., Quartararo, G., Dudemaine, J., Milazzo, M. (2022). Limited behavioural effects of ocean acidification on a Mediterranean anemone goby (Gobius incognitus) chronically exposed to elevated CO2 levels. Marine Environmental Research, 181, 0141-1136.https://doi.org/10.1016/j.marenvres.2022.105758.

Spatafora, D., Quattrocchi, F., Cattano, C., Badalamenti, F., Milazzo, M. (2021). Nest guarding behaviour of a temperate wrasse differs between sites off Mediterranean CO2 seeps. Science of the Total Environment, 799, 149376. https://doi.org/10.1016/j.scitotenv.2021.149376

Spatafora, D., Massamba N'Siala, G., Quattrocchi, F., Milazzo, M., Calosi, P. (2021). Plastic adjustments of biparental care behaviour across embryonic development under elevated temperature in a marine ectotherm. Ecology and Evolution, 11, 11155-11167. https://doi.org/10.1002/ece3.7902

Aglieri, G., Baillie, C., Mariani, S., Cattano, C., Calò, A., Turco, G., **Spatafora, D.**, Di Franco, A., Di Lorenzo, M., Guidetti, P., Milazzo, M. (2020). Environmental DNA effectively captures functional diversity of coastal fish communities. Molecular Ecology, 20, 3127-3139. https://doi.org/10.1111/mec.15661

Di Giglio S., **Spatafora D**., Milazzo M., M'Zoudi s., Zito F., Dubois P., Costa C. (2020). Are control of extracellular acid-base balance and regulation of skeleton genes linked to resistance to ocean acidification in adult sea urchins?. Sci Total Environ. 2020;720:137443. doi:10.1016/j.scitotenv.2020.137443

Milazzo M., Cattano C., Alonzo S.H., Foggo A., Gristina M., Rodolfo-Metalpa R., Sinopoli M., **Spatafora D.,** Stiver K.A., Hall-Spencer J.M. (2016). Ocean acidification affects fish spawning but not paternity at CO2 seeps. Proceedings of the Royal Society B: Biological Sciences October 2016 283: 20161021. http://dx.doi.org/10.1098/rspb.2016.10