Adriana Alagna

Born in Palermo (PA - Italy) on 27/12/1980

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Current Position: 3rd Level Researcher

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

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University of Palermo, Palermo, Italy	Master (Laurea)	1999 - 2005	Environmental sciences
DiSTeBA, University of Salento, Lecce, Italy	Ph.D.	2007 - 2010	Fundamental ecology
Italian National Research Council (CNR-IAMC)	Researcher fellow	2012 - 2015	Biology and ecology of seagrass meadows
Stazione Zoologica Anton Dohrn, Napoli, Italy	Researcher fellow	2018 - 2020	Seagrass restoration ecology
Italian National Research Council (CNR-IAS)	Researcher	2021 - 2022	Seagrass restoration ecology
Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA), Palermo, Italy	Technologist	2022-2023	Environmental Impact Assessment - Biodiversity component
Stazione Zoologica Anton Dohrn, Palermo, Italy	Researcher	2023 - present	Seagrass ecology - restoration ecology

Appointments and awards

International workshop:

Alagna A., Vega Fernandez T., D'Anna G., Fici S., Magliola C., Badalamenti F. Adhesive root hairs facilitate Posidonia oceanica seedling settlement on rocky substrates. Proceedings of Mediterranean Seagrass Workshop 2015, Oristano 18 – 22 May 2015, p.36.

Alagna A., Vega Fernández, T., Di Carlo G., Terlizzi A., Badalamenti F., 2010. Influence of substrate type and algal cover on seedlings recruitment and growth performances of the Mediterranean seagrass Posidonia oceanica, Proceedings of 4th Mediterranean Symposium on Marine Vegetation, Yasmine-Hammamet, 2-4 December 2010, pp.149-150.

Alagna A., Badalamenti F., D'Anna G., Di Carlo G., Terlizzi A., 2009. The natural recovery of Posidonia oceanica after physical disturbance: assessing substrate preference. Proceedings of Mediterranean Seagrass Workshop 09, Hvar 6 -10 settembre 2009, p. 45

Projects

2023 – to date: Involved in the NBFC - National Biodiversity Future Center – Spoke 2 – Activity 2 - Development of innovative solutions for the recovery of biodiversity in order to optimize the strengthening of interventions habitat restoration.

2018 - 2020: Involved in the project ABBaCo - Restauro Ambientale e Balneabilità del SIN Bagnoli-Coroglio / MERCES – Marine Ecosystem Restoration in Changing European Seas

2014 - 2015: Involved in the project Biocostruzioni costiere: struttura, funzione, e gestione - Programma di ricerca scientifica di rilevante interesse nazionale (PRIN)

2012 - 2014 : Involved in the project Sperimentazione su rizomi di Posidonia oceanica, contract CNR-Saipem S.p.A. N°634522 del 13/09/2011

2011 - 2013: Involved in the project Mediterranean Sensitive Habitats (MEDISEH) "Compilation and mapping of environmental and fisheries related information in the Mediterranean Sea by means of Geographical Information System (GIS)"

2010: Involved in the project Sperimentazione di metodologie di facilitazione del reclutamento di germogli di Posidonia oceanica finalizzate al ripristino delle praterie. Contratto n. 524645 del 26/07/2010 tra ENI-SAIPEM S.p.A. e CNR-IAMC U.O.S. di Mazara del Vallo per "Attività su posidonie" dal 26/07/2010 al 31/12/2010 e Contratto n. 506019 del 19/04/2010 tra ENI-SAIPEM S.p.A. e CNR-IAMC U.O.S. di Mazara del Vallo per 'Studio trattamento posidonie'.

Publications

Peer-reviewed

Zenone A., Badalamenti F., Alagna A., Gorb S.N., Infantes E., 2022. Assessing tolerance to the hydrodynamic exposure of Posidonia oceanica seedlings anchored to rocky substrates. Frontiers in Marine Science, 8, 788448, DOI: 10.3389/fmars.2021.788448.

Alagna, A., D'Anna, G., Musco, L., Vega Fernández, T., Gresta, G., Pierozzi, N., Badalamenti, F., 2020. Reply to "Letter to the editor regarding the article 'Taking advantage of seagrass recovery potential to develop novel and effective meadow rehabilitation methods' by Alagna et al.,published in Marine Pollution Bulletin, 149: 2019 (110578)" by Calvo et al. Marine Pollution Bulletin, 158, 111395, DOI:10.1016/j.marpolbul.2020.111754.

Zenone A., Alagna A., D'Anna G., Kovalev A., Kreitschitz A., Badalamenti F., Gorb S., 2020. Biological adhesion in seagrasses: the role of substrate roughness in Posidonia oceanica (L.) Delile

seedling anchorage via adhesive root hairs. Marine Environmental Research, 160, 105012. DOI:10.1016/j.marenvres.2020.105012.

Alagna A., Zenone A. & Badalamenti F., 2020. The perfect microsite: how to maximize Posidonia oceanica seedling settlement success for restoration purposes using ecological knowledge. Marine Environmental Research 161, 104846. DOI:10.1016/j.marenvres.2019.104846.

Alagna A., D'Anna G., Musco L., Vega Fernández T., Gresta M., Pierozzi N., Badalamenti F., 2019. Taking advantage of seagrass recovery potential to develop novel and effective meadow rehabilitation methods. Marine Pollution Bulletin 149, 110578. DOI:10.1016/j.marpolbul.2019.110578.

Prada F., Musco L., Alagna A., Agnetta D., Beccari E., D'Anna G., Giacalone V., Pipitone C., Vega Fernández T., Goffredo S., Badalamenti F. 2019. Anthropogenic impact is negatively related to coral health in Sicily (Mediterranean Sea). Scientific Reports 9, 13469. DOI 10.1038/s41598-019-49713-w.

Musco L., Pipitone C., Agnetta D., Alagna A., D'anna G., Di Stefano G., Giacalone V.M., Gristina M., Prada F., Vega Fernández, T. & Badalamenti F. 2016. Distribution of the orange stony coral Astroides calycularis along the Italian coasts. Biologia Marina Mediterranea 23 (1), pp. 204-206.

Telesca, L., Belluscio, A., Criscoli, A., Ardizzone, G., Apostolaki, E.T., Fraschetti, S., Gristina, M., Knittweis, L., Martin, C. S., Gérard Pergent, G., Alagna, A., Badalamenti, F., Garofalo, G., Gerakaris, V., Pace, M.L., Pergent-Martini, C. & Salomidi, M. 2015. Seagrass meadows (Posidonia oceanica) distribution and trajectories of change. Scientific Reports 5, 12505. DOI: 10.1038/srep12505.

Alagna, A., Vega Fernández, T., D'Anna, G., Magliola, C., Mazzola, S. & Badalamenti, F. 2015. Assessing Posidonia oceanica seedling substrate preference: an experimental determination of seedling anchorage success in rocky vs. sandy substrates. PLoS ONE 10(4): e0125321. DOI:10.1371/journal.pone.0125321.

Badalamenti, F., Alagna, A. & Fici S. 2015. Evidences of adaptive traits to rocky substrates undermine paradigm of habitat preference of the Mediterranean seagrass Posidonia oceanica. Scientific Reports 5, 8804. DOI:10.1038/srep08804.

Alagna, A., Vega Fernández, T., Terlizzi, A. & Badalamenti, F. 2013. Influence of microhabitat on seedling survival and growth of the mediterranean seagrass Posidonia oceanica (l.) Delile. Estuarine Coastal and Shelf Science 119, 119-125. DOI: 10.1016/j.ecss.2013.01.009.

Badalamenti, F., Alagna, A., D'anna, G., Terlizzi, A. & Di Carlo, G. 2011. The impact of dredge-fill on Posidonia oceanica seagrass meadows: Regression and patterns of recovery. Marine Pollution Bulletin 62, 483-489. DOI: 10.1016/j.marpolbul.2010.12.011.

Patents:

Alagna A., Baldalamenti F. & Musco L., 2023. European patent EP 3 903 569 B1: "DEVICE FOR SUPPORTING, GROWING AND REPLANTING AQUATIC PLANTS FROM SEEDS", joint ownership Stazione Zoologica Anton Dohrn (70%) – Italian National Council of Research (30%) .