

Curriculum Vitae

INFORMAZIONI PERSONALI

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AMBITI DI RICERCA

Paolo Mancuso is a marine botanist with a background in marine biology and ecology. His research focuses on various ecological aspects of marine seaweeds and seagrass meadows, including spatial distribution, interactions with non-native species, and the effects of structural complexity on associated biodiversity (e.g., macrofauna and microbiome). He is particularly interested in understanding the factors that shape the distribution and physiological responses of seaweeds and seagrasses - from the individual to the community level - in response to environmental and anthropogenic stressors within changing scenarios driven by climate change.

A central aspect of his work is the assessment and valuation of ecosystem services provided by vegetated coastal habitats, with the aim of linking biodiversity patterns and functional traits to the benefits these systems offer for human well-being and marine conservation strategies. This includes investigating carbon sequestration, nursery habitats, and water quality regulation.

He is also interested in the development of innovative technologies for monitoring environmental variables and species' functional traits in marine environments. Through experiments conducted both in the laboratory and in the field, his research seeks to improve understanding of species' metabolic responses to environmental change and to support the development of conservation tools grounded in ecological principles.