UNIVERSITÀ DEGLI STUDI DI PADOVA

PRESERVE - Plant Roots as bio-foundations for rESiliEnt tRansitional enVironmEnts

Coastal areas, comprising just 4 % of the world's land surface, serve as vital shields for major cities against severe storms and rising seas, with nearly 40 % of the global population residing within 100 km of the coast. Yet, these ecosystems, rich in biodiversity and carbon storage, are vanishing at an alarming rate due to human activities and climate change-induced stress. The UN Sustainable Development Goals prioritise wetland conservation, but understanding the intricate interactions between plant roots and soil remains a challenge. The MSCA-funded PRESERVE project will delve into the intricate interplay between vegetation, soil, and environmental processes to predict wetland resilience under climate shifts. This interdisciplinary initiative will equip stakeholders with actionable insights for nature-based solutions.

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