

Environmental genomics and the functioning of marine (reef) systems

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The Brazilian Marine Environment has been poorly studied. In one example, a new Amazonian reef biome was recently discovered off the mouth of the Amazon river. The new biome develops under low light, low oxygen, and high levels of particulates. The oxycline between the plume and sub-plume is associated to chemoautotrophic and anaerobic microbial metabolisms, defining the uniqueness of this new biome. The biotechnological potential of this new biome will also be discussed.