

Ciclo de Seminários em Biologia Humana e Ambiente

Mestrado em Biologia Humana e Ambiente. Departamento de Biologia Animal

João Brandão joao.brandao@insa.min-saude.pt National Institute of Health Dr. Ricardo Jorge (INSA) Researcher at the Centre for Environmental and Marine Studies (CESAM FCUL)



Fungi in Water Environments

The emergence of Candida auris has drawn international attention within the Fungi community, particularly in the context of environmental and occupational health, water management, and research. Currently, wastewater analysis is not limited to COVID-19 investigation but also encompasses other microbial factors like Candida auris and Aspergillus fumigatus sensu stricto. The World Health Organization (WHO) addressed fungal taxa in its 2021 quality management quidelines, recreational water recognizing their To enhance human significance. health protection, these auidelines recommend monitoring beach sand for both bacterial indicators of fecal pollution and all fungi as a reflection of contamination levels, indicating the these potential exposure of beachgoers to microorganisms. In 2022, WHO reinforced the need to monitor fungi in national and supranational regulations, introducing a watch list of fungi of interest. Furthermore, Europe updated its Drinking Water Directive and proposed, in a side document designed to help Member-states implement the revised directive (state-of-play) the monitoring of fungi in public buildings used immunocompromised patients, including hospitals and nursing homes. These recent developments have paved the way for the inclusion of fungi in water quality regulation, whether for drinking or recreational or wastewater regulation.