Microbiome, Aquaculture, Bioinformatics, Metagenomics, Databases, Open Science

Idea / Proposal:

Microbial flora imbalances are linked to numerous pathologies, yet knowledge of fish microbiome lags behind that of humans and mammals. Advances in sequencing technologies now make it possible to characterise microbial populations quickly and affordably. By comparing microbiomes of animals reared in optimal versus suboptimal conditions, researchers can identify profiles associated with greater disease resilience. We are creating an open repository of metagenomic data for economically relevant fish species in Portuguese aquaculture, such as trout, seabass, seabream. MAPAfish will characterize the metagenomes of different tissues in fish reared under optimal conditions and those exposed to environmental and biological stressors.

Researcher Name

Gonçalo Themudo

CONTACT

gthemudo@ciimar.up.pt