

IBIOL

EXTERNAL SEMINAR



24 SEPTEMBER 2026



12:15–13:15



ROOM F200



Alexandre Jousset

Genedance / Nanjing Agricultural University

Microbiome digital twin for rational probiotic design

Imagine a world without pesticides. Probiotic microbes may in principle enable sustainable agriculture, protecting crops from diseases and cleaning up polluted soils. Their use is limited by their ability to survive in target environment. Here we present how microbiome modelling can be used to automate and scale the design of highly efficient solutions to environmental challenges, with demonstration in sustainable agriculture settings. Alexandre Jousset is CEO of Genedance and visiting professor at Nanjing Agricultural University. He has published more than 170 publications with a total of 17500 citations and a H index of 66.