

Encapsulation of model bacter sensors for optical and electrochemical detection of environmental pollutants

Environmental pollution poses a major threat to health and biodiversity. In line with the ZERO-POLLUTION programme of the European Union, the BioSensei project addresses this challenge by developing a real-time, multiplexed, end-to-end, on-site optical and electrochemical monitorial monitorial and electrochemical monitorial electrochemical monitorial electrochemical monitorial electrochemical electroche system. Using cellular responses, this hybrid biosensor targets both biotic and abiotic pollutants in water (i.e., nitrates and phosphates, disruptive chemicals. PFAS and toxins).

To this purpose, immobilisation of genetically engineered bacterial cells on the transducer surface is required. Moreover, this project is embedded

Luana Cuvillier¹ Nathan Haasbroek² Enrique Asin Garcia Richard Murray³ Sana Muzaffar³ Alan O'Riordan3 Guillaume Nonglato

