



# Smart bionano Materials and Robotic Technologies (SMART)

Seed Funding

One Health

This project is inspired by living systems, which are a treasure trove of complex functional “nanomachines” such as enzymes and viruses, whose building blocks include lipids, proteins and nucleic acids. Using these components, nature has succeeded in building marvels such as self-replicating cells and the ribosome. The question then arises if the same biocompatible and supremely functional components can be used to design and build novel nanomachines capable of carrying out useful tasks such as delivering drugs or repairing damaged cells. SMART brings together researchers with expertise in these building blocks with the ultimate aim of building hybrid artificial nanodevices with unprecedented capabilities.

## Details

**Third Parties:** University of Groningen

**Budget:** €16,710

**Duration of funding period:** January 2022 - December 2022

## Key contact

Jonathan Heddle

Uniwersytet Jagiellonski w Krakowie

[jonathan.heddle@uj.edu.pl](mailto:jonathan.heddle@uj.edu.pl)

## Partners involved

Alma Mater Studiorum, Università di Bologna

Freie Universität Berlin

Helsingfors universitet

KU Leuven

Universidad Complutense de Madrid

University of Edinburgh

Uniwersytet Jagiellonski w Krakowie

unano

[Website](#)