



Sorption Technologies & Molecular Solutions for (Bio)monitoring and Removal of Pollutants

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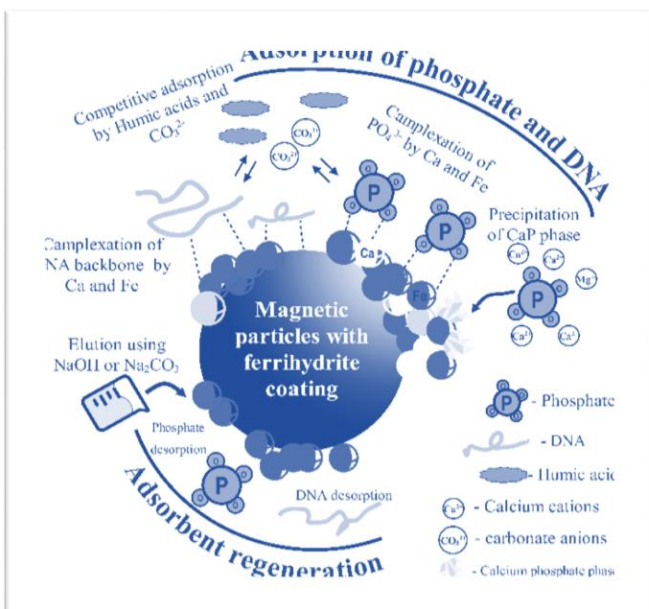
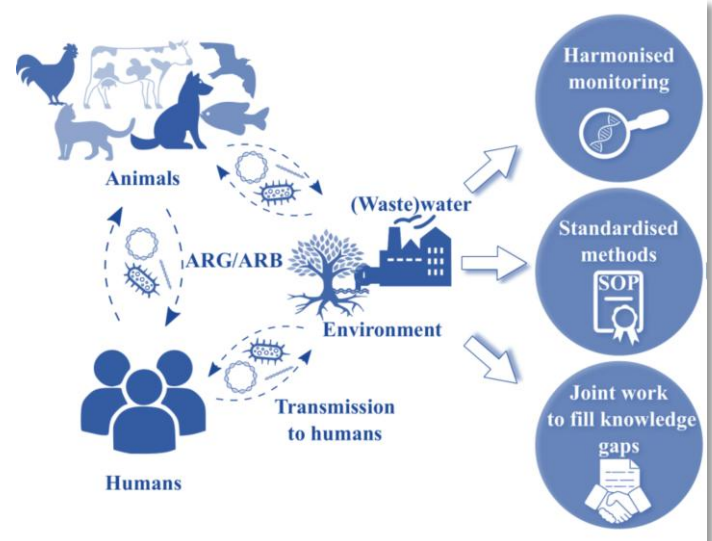
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Our research groups conduct studies in the field of (bio)monitoring of emerging pollutants, so-called micropollutants (i.e., pathogens, pharmaceuticals, and free-floating (potentially virulent) DNA) for environmental protection, veterinary medicine, and healthcare. In this context, we focus on developing **novel monitoring/detection technologies based on PCR/qPCR and bioinformatics platforms** that enhance biomonitoring and/or validate existing molecular diagnostic solutions.

Decewicz & Dziewit group (University of Warsaw)

Bajda group (AGH University of Krakow)



Our groups also work on the development of **mineral-based sorption systems** specifically interacting with micropollutants/emerging pollutants, such as our unique and innovative systems for capturing free-floating DNA for monitoring/removal of pathogenic or genetically modified DNA. These systems are often multifunctional and can also be used, for example, for nutrient recovery from wastewaters which is in line with the circular and sustainable economy principles.

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