

CEIPEX MENDELU 5

Položka / Field	Obsah / Content
CEIPEX Research Topic Level2	nanostructures at surfaces
Název výzkumné skupiny	Research group of synthesis and chemical analysis
Téma	Hybrid lipid–nanomaterial interfaces for studying interactions of nanoplastics with biological membranes
Anotace k tématu	This theme focuses on the development of hybrid lipid–nanomaterial interfaces as biomimetic platforms to investigate the interactions of nanoplastics with biological membranes. By combining bilayer lipid models with functional nanomaterials, the system will enable controlled studies of nanoplastic binding, penetration, and disruption mechanisms. The results will provide fundamental insights into the biological impact of nanoplastics and contribute to the design of advanced sensing tools for environmental and health risk assessment.
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