

1	CEIPEX RESEARCH TOPIC LEVEL2 nanostructures at surfaces
2	RESEARCH GROUP Research group of synthesis and chemical analysis
3	TOPICS/FOCUS Hybrid lipid–nanomaterial interfaces for studying interactions of nanoplastics with biological membranes
4	SUMMARY 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.
5	RG WEBPAGE/CONTACT https://ucb.af.mendelu.cz/vyzkumna-skupina-syntezy-a-chemicke-analyzy/ Assoc. prof. RNDr. Lukáš Richtera, Ph.D.