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Eva Cséfalvay

On behalf of

***University of South Bohemia
in České Budějovice***

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Description of the Organization

- The Faculty of Fisheries and Protection of Waters of the University of South Bohemia in České Budějovice has following parts:
 - **Research Institute of Fisheries and Hydrobiology**
 - **Institute of Aquaculture and Protection of Waters**
 - **Institute of Complex Systems**
 - **CENAKVA** - a large research infrastructure, which is included on the scientific map of large research infrastructures in the CR
- The Faculty has at its disposal experimental facilities for the study and research of aquaculture, environmental chemistry, and toxicology, hydrobiology, fish diseases, reproduction, genetics, fish and crayfish farming.

Description of your research interest

- We study bacterial consortia isolated from waste dump in local area
- Their ability to long term metabolize plastic as sole carbon source – (Polyethylene - PE, polyethylene terephthalate - PET, polypropylene - PP, polyvinyl chloride - PVC)
- Study of plastic metabolic pathways in bacteria:
 - - detection of bacterial growth and viability
 - - detection of plastic metabolites
- Study of ways how to increase plastic degradability and effectivity of bacterial metabolism

Project Idea

Please indicate your Call Topic of Interest:

Removal of microplastic particles from water and soil by bacteria

Please indicate relevant project ideas

To develop suitable methodology for removal of plastic pollutions from sewage sludge

Please add TITLE of the PROJECT IDEA

- Remediation of sewage sludge
- Objectives:
 - To determine biodegradability of microplastic in vitro
 - In situ application of microplastic bacterial degradation
- Expected results
 - Description of bacterial metabolism of microplastic
 - Methodology for elimination of plastic from sewage sludge

Consortium - profile of known partners *(if any)*

No	Partner Name	Type	Country	Role in the Project
01				
02				
03				
04				
05				
06				

Consortium - required partners- we are open to any collaboration especially with teams, which have high experience with microplastic analysis in water solution and soil.

No	Expertise	Type	Country	Role in the project
01		RTD		
02		SME		
03		INFRA		
04				
05				



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