

Laboratory for microplastics research

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Laboratory is dedicated to the sample pretreatment and chemical analysis of microplastics in different environmental samples.

- Chemical identification and quantitation
 - Fourier Transform InfraRed microscope (μ FTIR-microscope) including imaging analysis
 - Pyrolysis-gas chromatography-mass spectrometer (Pyr-GC-MS)
- Pretreatment of environmental samples
 - Physical: filtration, sieving, and density separation
 - Chemical: hydrogen peroxide and fenton oxidation
 - Enzymatic: several enzymes in use
- Laboratory room pressurized with HEPA-filtered air and equipped with laminar flow cabinet and fume hood
- In addition, optical microscope, ultrasonic probe and dynamic light scattering (DLS + ELS)
- Close collaboration with Marine Research Laboratory of Syke
- Contact: Markus Sillanpää (firstname.lastname@syke.fi)
- Microplastics analysis, FTIR-microscope, imaging analysis, and pretreatment of environmental samples

