Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

AimM

"If you cannot analyze and measure it, you cannot control and degrade it."

Advanced and innovated microbial Monitoring

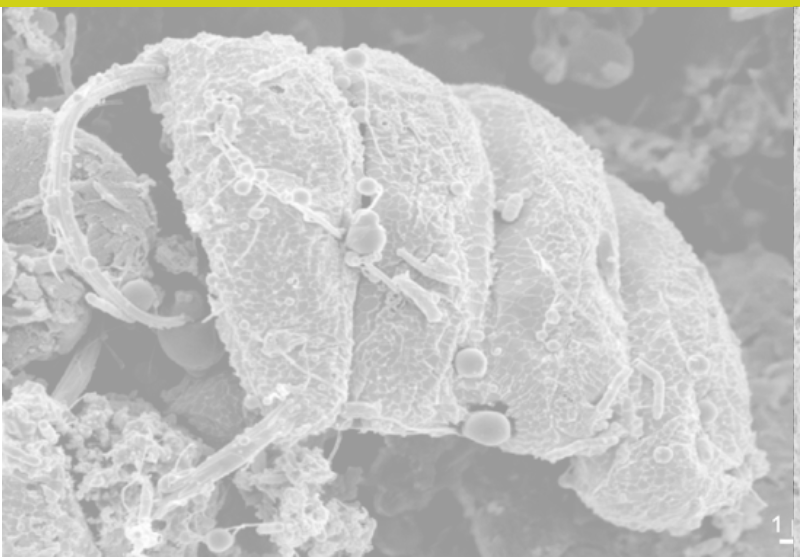
Microbial contaminations – single- and multispezies biofilm analysis and preventions

Microbial biofilms are the dominant form of life on earth. Most microbial biofilms are phylogenetically diverse containing bacteria, archaea, viruses, phages, and smaller eukaryotes such as fungi, which have learned to live together. We acquired expertise in molecular, biochemical, (meta)genomic, (meta)transcriptomic and proteomic analyses of industrial relevant microorganisms, environmental habitats, single- and multi species biofilms, as well as regulation of proteins, and signal transduction.

Our solutions include:

- Next generation sequencing data analysis
- in-house qPCR Laboratory workflow
- Fluorescents and Scanning electron microscopic analysis
- chemical and biochemical measurmetns of the EPS matrix
- Desinfection strategies
- Antimicrobial treatments

We examine in industries fuel, water or surfaces.



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