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Proteins as the key player of microbial activity: Capability and challenges in the field of (Meta-)Proteomics

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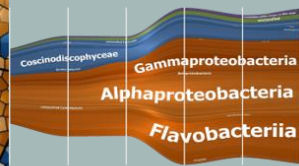
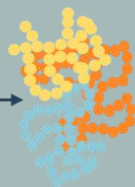
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Abstract

To understand microbial processes, genes, transcripts, proteins, and metabolites are studied in laboratories all over the world. Proteomic approaches are meanwhile well established in many laboratories and suited to describe changes in the metabolism by the detection of protein abundances.

Nowadays, the main challenges in the field of Proteomics and especially of Meta-Proteomics are the complexity of protein mixtures on one hand and the detection of low abundant proteins on the other hand. To overcome these problems the development of new methods of sample preparation and sample analysis is necessary. The research of our group is focused on the development, establishment, and optimization of methods facing these challenges. The talk will give an insight into current studies at the department of Microbial Proteomics at the University of Greifswald.



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