













Assessing bacterial diversity	Linbriz Linbriz Association
<ul> <li>Culturable methods</li> <li>MPN analysis using serial dilution and cultivation on universal of selection</li> </ul>	ective media
Community level physiological profiling	
Molecular methods	
<ul> <li>DGGE – Denaturing Gradient Gel Electrophoresis</li> <li>BELP – Restriction Fragment Length Polymorphism</li> </ul>	
<ul> <li>ARISA – Automated Ribosomal Intergenic Pacer Analysis</li> </ul>	
<ul> <li>Microarray – PhyloChip</li> <li>Metagenome sequencing and comparison</li> </ul>	









## **Metagenomics** Libriz 🍊 IGZ oMetagenomic analysis to get a better understanding of the entire microbiome within an environmental sample, but be aware of: oAdvantages & Disadv. Of 16S-Amplicon shotgun sequencing approach and whole MG-Sequencing (e.g. functional annotation, ...) •Setup of the experiment (hypothesis and biological replicates) oSampling procedure (representative, mixture/ single parts, handling of the material, storage temperature, time span between sampling and further processing....) oSample quality (Extraction method, efficiency in quantity and quality of DNA, RNA) oSequencing method affects the data quality and detected organism richness oAnnotation shall be done on experimentally proved datasets (quality of the databases) oAlgorhytms and tresholds in statistical analysis affect the conclusions

