

Literature for Seminars Environmental Microbiology:

Gradients:

1. D'Hondt, S. et al., Distributions of microbial activities in deep seafloor sediments, *Science* 306, 2216-2221, 2004
2. Schauer, R. et al., Succession of cable bacteria and electric currents in marine sediment, *ISME J*, 2014

Hydrocarbons:

3. Abu Laban et al., Identification of enzymes involved in anaerobic benzene degradation by a strictly anaerobic iron-reducing enrichment culture. *Environ. Microbiol.* 60, 686-695, 2010.
4. Griebler C., et al., Combined application of stable carbon isotope analysis and specific metabolites determination for assessing in situ degradation of aromatic hydrocarbons in a tar oil-contaminated aquifer. *Environ. Sci. Technol.* 38, 617-631, 2004.
5. Meckenstock R.U. et al., Water droplets in oil are microhabitats for microbial life, *Science* 2014, 345, 673-676.

Wang He

Reductive dehalogenation:

6. Bunge M., et al., Reductive dehalogenation of chlorinated dioxins by an anaerobic bacterium. *Nature.* 357-360, 421, 2003.
7. Hunkeler, D., et al., Monitoring microbial dechlorination of tetrachloroethene (PCE) in groundwater using compound-specific stable carbon isotope ratios: Microcosm and field studies. *Environ. Sci. Technol.* 33, 2733-2738, 1999.

Microbial Growth

8. Ihssen J., et al., Global physiological analysis of carbon- and energy-limited growing *Escherichia coli* confirms a high degree of catabolic flexibility and preparedness for mixed substrate utilization. *Environ. Microbiol.* 10, 1568-1581, 2005.

Haley Simpson

9. Marozava S., et al., Physiology of *Geobacter metallireducens* under excess and limitation of electron donors. Part I. Batch cultivation with excess of carbon sources. *System. Appl. Microbiol.* 37, 277–286, 2014.

And: Marozava S., et al., Physiology of *Geobacter metallireducens* under excess and limitation of electron donors. Part II. Mimicking environmental conditions during cultivation in retentostats. *System. Appl. Microbiol.* 37, 287–295, 2014.

Martin Funk