PUBLICATIONS IN PREPARATION

Dyksma, S., Jansen, L. and C. Gallert. Syntrophic acetate oxidation rather than acetoclastic methanogenesis during thermophilic digestion of biowaste.

Mussmann, M., Probandt, D., **Dyksma, S**. and K. Ovanesov. Ecology and ecogenomics of the cosmopolitan Sva0081-group, dominant sulfate-reducing bacteria in marine coastal sediments.

Mussmann, M., **Dyksma, S**. and H. Teeling. Ecology and ecogenomics of carbohydrate-oxidizing *Flavobacteria* dominant in European tidal sediments.

PUBLICATIONS

Dyksma, S. and Gallert, C. (2019) *Candidatus* Syntrophosphaera thermopropionivorans: a novel player in syntrophic propionate oxidation during anaerobic digestion. *Environ Microbiol Rep* **11**: 558–570.

Pjevac, P., **Dyksma, S.**, Goldhammer, T., Mujakić, I., Koblížek, M., Mußmann, M., et al. (2019) *In situ* abundance and carbon fixation activity of distinct anoxygenic phototrophs in the stratified seawater lake Rogoznica. *Environ Microbiol* **21**: 3896–3908.

Dyksma, S., Lenk, S., Sawicka, J.E., and Mußmann, M. (2018) Uncultured *Gammaproteobacteria* and *Desulfobacteraceae* account for major acetate assimilation in a coastal marine sediment. *Front Microbiol* **9:** 3124

Dyksma, S., Pjevac, P., Ovanesov, K., and Mussmann, M. 2018. Evidence for H_2 consumption by uncultured *Desulfobacterales* in coastal sediments. *Environmental Microbiology,* 20: 450–461.

Mussmann, M., Pjevac, P., Krüger, K. and **S. Dyksma**. 2017. Genomic repertoire of the *Woeseiaceae*/JTB255, cosmopolitan and abundant core members of microbial communities in marine sediments. *The ISME Journal*, doi:10.1038/ismej.2016.185.

Dyksma, S. (2016) Identification and activity of bacteria consuming key intermediates of carbon and sulfur cycling in coastal sands.

Dyksma, S., Bischof, K., Fuchs, B.M., Hoffmann, K., Meier, D., Meyerdierks, A., Pjevac, P., Probandt, D., Richter, M., Stepanauskas, R. and M. Mussmann. 2016. Ubiquitous *Gammaproteobacteria* dominate dark carbon fixation in coastal sediments. *The ISME Journal*, 10:1939-1953.

Pjevac, P., Kamyshny, A., **Dyksma, S**. and M. Mussmann. 2014. Microbial consumption of zero-valence sulfur in marine benthic habitats, *Environmental Microbiology*, 16:3416–3430.

CONFERENCE PRESENTATIONS

"Uncultured *Cloacimonadaceae* are abundant syntrophic propionate-oxidizing bacteria in anaerobic digestion", oral presentation, VAAM 2019, Mainz, Germany.

"Ubiquitous *Gammaproteobacteria* dominate dark carbon fixation in coastal sediments", oral presentation, EMBO 2015, Helsingør, Denmark.

"Sulfate-independent and -dependent H_2 oxidation in marine sediments", poster presentation, ISME 2014, Seoul, South Korea.

"Diversity and ecophysiology of H_2-oxidizing bacteria in marine sediments", poster presentation, FEMS 2013, Leipzig, Germany.

"Quantifying CO_2 fixation in phylogenetically defined bacterial populations from marine sediments", poster presentation, VAAM 2013, Bremen, Germany.

CRUISE PARTICIPATION

AT26-23, 9°N East Pacific Rise, expedition to study deep-sea hydrothermal vents, R/V *Atlantis* and DSV *Alvin*, November 2-26, 2014. Chief scientist: Stefan Sievert