Curriculum vitae

PERSONAL INFORMATION

Family name, First name: Klatt, Judith
ORCID: 0000-0002-0195-6333

EDUCATION

2015	PhD Microsensor Group, Max Planck Institute for Marine Microbiology, Germany
2009	MSc Max Planck Research School for Marine Microbiology, Germany

CURRENT POSITION

2022 –	Group leader Biogeochemistry Lab, Future Center Microcosm Earth, Marburg, Germany

PREVIOUS POSITIONS

2018 – 2022	Research Scientist Microsensor Group, Max Planck Institute for Marine Microbiology, Germany
2015 – 2017	Postdoc Geomicrobiology Lab, Earth and Environmental Sciences, University of Michigan, USA

FELLOWSHIPS AND AWARDS

2015 – 2017	Turner Fellowship, Department for Earth and Environmental Sciences, University of Michigan, Ann Arbor, USA
2015	Attendee of 65th Lindau Nobel Laureate Meeting
2011	'For Women in Science Award' by LOreal, the Christiane Nüsslein-Volhard foundation and the German UNESCO agency
2011 – 2013	Christiane Nüsslein-Volhard foundation grant

PUBLICATIONS (20)

Peer reviewed (18)

Castillejos Sepúlveda A, Gatti LM, Kerl CF, Chennu A, **Klatt JM**. Arsenic speciation analysis in porewater by a novel colorimetric assay. *Science of The Total Environment* **2022**, 827: 154155

Gomes ML, **Klatt JM**, Dick GJ, Grim SL, Rico KI, Medina M, et al. Sedimentary pyrite sulfur isotope compositions preserve signatures of the surface microbial mat environment in sediments underlying low-oxygen cyanobacterial mats. *Geobiology* **2022**; 00: gbi.12466.

Klatt JM, Chennu A, Arbic BK, Biddanda BA, Dick GJ. Possible link between Earth's rotation rate and oxygenation. *Nat Geosci 2021 148* **2021**; 14: 564–570

Merz E, Dick GJ, de Beer D, Grim S, Hübener T, Littmann S, Olsen K, Stuart D, Lavik G, Marchant HK, **Klatt JM**. Nitrate respiration and diel migration patterns of diatoms are linked in sediments underneath a microbial mat. *Environ Microbiol* **2020**; 1462-2920.15345.

Klatt JM, Gomez-Saez G V, Meyer S, Ristova PP, Yilmaz P, Granitsiotis MS, et al. Versatile cyanobacteria control the timing and extent of sulfide production in a Proterozoic analog microbial mat. *ISME J* **2020**; 14: 3024–3037

Dick GJ, Grim SL, **Klatt JM**. Controls on O_2 Production in Cyanobacterial Mats and Implications for Earth's Oxygenation. *Annu Rev Earth Planet Sci* **2018**; 46: 123–147.

Hamilton TL, **Klatt JM**, de Beer D, Macalady JL. Cyanobacterial photosynthesis under sulfidic conditions: Insights from the isolate Leptolyngbya sp. strain hensonii. *ISME J* **2018**; 12: 568–584.

Haas S, de Beer D, **Klatt JM**, Fink A, Rench RM, Hamilton TL, et al. Low-Light Anoxygenic Photosynthesis and Fe-S-Biogeochemistry in a Microbial Mat. *Front Microbiol* **2018**; 9: 858.

Marchant HK, Ahmerkamp S, Lavik G, Tegetmeyer HE, Graf J, **Klatt JM**, et al. Denitrifying community in coastal sediments performs aerobic and anaerobic respiration simultaneously. *ISME J* **2017**; 11.

Klatt JM, Meyer S, Häusler S, Macalady JL, De Beer D, Polerecky L. Structure and function of natural sulphide-oxidizing microbial mats under dynamic input of light and chemical energy. *ISME J* **2016**; 10.

de Beer D, Weber M, Chennu A, Hamilton T, Lott C, Macalady J, **Klatt JM**. Oxygenic and anoxygenic photosynthesis in a microbial mat from an anoxic and sulfidic spring. *Environ Microbiol* **2016**

Klatt JM, de Beer D, Häusler S, Polerecky L. Cyanobacteria in sulfidic spring microbial mats can perform oxygenic and anoxygenic photosynthesis simultaneously during an entire diurnal period. *Front Microbiol* **2016**; **7**: 1973.

Klatt JM, Al-Najjar MAA, Yilmaz P, Lavik G, de Beer D, Polerecky L. Anoxygenic photosynthesis controls oxygenic photosynthesis in a cyanobacterium from a sulfidic spring. *Appl Environ Microbiol* **2015**; 81: 2025–2031.

Klatt JM, Haas S, Yilmaz P, de Beer D, Polerecky L. Hydrogen sulfide can inhibit and enhance oxygenic photosynthesis in a cyanobacterium from sulfidic springs. *Environ Microbiol* **2015**; 17: 3301–3313.

Klatt JM, Polerecky L. Assessment of the stoichiometry and efficiency of CO_2 fixation coupled to reduced sulfur oxidation. *Front Microbiol* 2015; 6: 484.

Behrendt A, Tarre S, Beliavski M, Green M, **Klatt JM**, de Beer D, et al. Effect of high electron donor supply on dissimilatory nitrate reduction pathways in a bioreactor for nitrate removal. *Bioresour Technol* **2014**; 171: 291–297.

Al-Najjar MAA, Ramette A, Kühl M, Hamza W, **Klatt JM**, Polerecky L. Spatial patterns and links between microbial community composition and function in cyanobacterial mats. *Front Microbiol* **2014**; 5: 406

Other (3)

Klatt JM. Mikrobielle Matten als Fenster in die Erdgeschichte. *BIOspektrum* **2021**, 27 (7), 782-782

Beer D de, Meyer V, **Klatt JM**, Li T. Photosynthesis under very high oxygen concentrations in dense microbial mats and biofilms. *bioRxiv* **2018**; 335299.

Polerecky L, **Klatt JM**, Al-Najjar M, De Beer D. Hyper-spectral imaging of biofilm growth dynamics. *WHISPERS '09 - 1st Work. Hyperspectral Image Signal Process. Evol. Remote Sens.* **2009**.