

## Peer reviewed publications of the Hinrichs Lab with acknowledgement

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### Since 2021

**Zhu, Q.-Z., Elvert, M., Meador, T.B., Becker, K.W., Heuer, V.B., and Hinrichs, K.-U.** (2021) Stable carbon isotopic compositions of archaeal lipids as a gauge to constrain terrestrial, planktonic, and benthic sources in marine sediments. *Geochimica et Cosmochimica Acta*, 307, 319-337. [doi:10.1016/j.gca.2021.04.037](https://doi.org/10.1016/j.gca.2021.04.037)

**Zhu, Q.-Z., Wegener, G., Hinrichs, K.-U., and Elvert, M.** (2022) Activity of ancillary heterotrophic community members in anaerobic methane-oxidizing cultures. *Frontiers in Microbiology*, 13:912299. [doi:10.3389/fmicb.2022.912299](https://doi.org/10.3389/fmicb.2022.912299)

**Zhu, Q.-Z., Elvert, M., Meador, T.B., Doeana, K., Becker, K., Elling, F., Lipp, J., Heuer, V., Zabel, M., and Hinrichs, K.-U.** (2024) Comprehensive molecular-isotopic characterization of archaeal lipids in the Black Sea water column and underlying sediments. *Geobiology*, 22, e12589. [doi:10.1111/gbi.12589](https://doi.org/10.1111/gbi.12589)

### 2020

**Coffinet, S., Meador, T.B., Mühlhena, L., Becker, K.W., Schröder, J., Zhu, Q.-Z., Lipp, J.S., Heuer, V.B., Crump, M.P., and Hinrichs, K.U.** (2020) Structural elucidation and environmental distributions of butanetriol and pentanetriol dialkyl glycerol tetraethers (BDGTs and PDGTs). *Biogeosciences* 17, 317-330. [doi:10.5194/bg-17-317-2020](https://doi.org/10.5194/bg-17-317-2020)

**Heuer, V.B., Inagaki, F., Morono, Y., Kubo, Y., Spivack, A.J., Viehweger, B., Treude, T., Beulig, F., Schubotz, F., Tonai, S., Bowden, S.A., Cramm, M., Henkel, S., Hirose, T., Homola, K., Hoshino, T., Ijiri, A., Imachi, H., Kamiya, N., Kaneko, M., Lagostina, L., Manners, H., McClelland, H.-L., Metcalfe, K., Okutsu, N., Pan, D., Raudsepp, M.J., Sauvage, J., Tsang, M.-Y., Wang, D.T., Whitaker, E., Yamamoto, Y., Yang, K., Maeda, L., Adhikari, R.R., Glombitza, C., Hamada, Y., Kallmeyer, J., Wendt, J., Wörmer, L., Yamada, Y., Kinoshita, M., and Hinrichs, K.-U.** (2020) Temperature limits to deep seafloor life in the Nankai Trough subduction zone. *Science*, 370, 1230-1234. [doi:10.1126/science.abd7934](https://doi.org/10.1126/science.abd7934)

**Ma, C., Coffinet, S., Lipp, J.S., Hinrichs, K.-U., and Zhang, C.** (2020) Marine Group II Euryarchaeota contribute to the archaeal lipid pool in Northwestern Pacific Ocean surface waters. *Frontiers in Microbiology*, 11.1034. [doi:10.3389/fmicb.2020.01034](https://doi.org/10.3389/fmicb.2020.01034)

**Meador, T.M., Schoffelen, N., Ferdelman, T.G., Rebello, O., Khachikyan, A., and Könneke, M.** (2020) Carbon recycling efficiency and phosphate turnover by marine nitrifying archaea. *Science Advances*, 6(19), eaba1799. [doi:10.1126/sciadv.aba1799](https://doi.org/10.1126/sciadv.aba1799)

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**Xu, Y., Wu, W., Xiao, W., Ge, H., Wei, Y., Yin, X., Yao, H., Lipp, J.S., Pan, B., and Hinrichs, K.-U.** (2020) Intact ether lipids in trench sediments related to archaeal community and environmental conditions in the deepest ocean. *Journal of Geophysical Research: Biogeosciences*, 125, e2019JG005431. [doi:10.1029/2019JG005431](https://doi.org/10.1029/2019JG005431)

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**Becker, K.W., Elling, F.J., Schröder, J.M., Lipp, J.S.**, Goldhammer, T., Zabel, M., **Elvert, M.**, Overmann, J., and **Hinrichs, K.-U.** (2018) Isoprenoid quinones resolve the stratification of microbial redox processes in a biogeochemical continuum from the photic zone to deep anoxic sediments of the Black Sea. *Applied and Environmental Microbiology*, 84: e02736-17. [doi:10.1128/AEM.02736-17](https://doi.org/10.1128/AEM.02736-17)

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## 2016

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