

Full List of Peer-reviewed articles

123. Zink I, Fouqueau T, Tarrason Risa G, Werner F, Baum B, Bläsi U, Schleper C (2020) Comparative CRISPR type III-based knockdown of essential genes in hyperthermophilic Sulfolobales and the evasion of lethal gene silencing. **RNA Biology** [ePub: 21 Sep 2020]. DOI: 10.1080/15476286.2020.1813411.
122. Reyes C, Hodgskiss L, Kerou M, Pribasnig T, Abby SS, Bayer B, Kraemer S, Schleper C (2020) Genome wide transcriptomic analysis of the soil ammonia oxidizing archaeon *Nitrososphaera viennensis* upon exposure to copper limitation. **The ISME Journal** [ePub: 14 July 2020]. DOI: 10.1038/s41396-020-0715-2.
121. Reyes C, Hodgskiss L, Baars O, Kerou M, Bayer B, Schleper C, Kraemer S (2020) Copper limiting threshold in the terrestrial ammonia oxidizing archaeon *Nitrososphaera viennensis*. **Research in Microbiology** 171 (3-4): 134-142. DOI: 10.1016/j.resmic.2020.01.003
120. Schleper C, Sousa F (2020) News and views: Meet the relatives of our cellular ancestors. **Nature** 577: 478-479. DOI: 10.1038/d41586-020-00039-y
119. Mooshammer M, Alves RJE, Bayer B, Melcher M, Stieglmeier M, Jochum L, Rittmann S, Watzka M, Schleper C, Herndl G, Wanek W (2020) Nitrogen Isotope Fractionation During Archaeal Ammonia Oxidation: Coupled Estimates From Measurements of Residual Ammonium and Accumulated Nitrite. **Frontiers in Microbiology** 11: 1710. DOI: 10.3389/fmicb.2020.01710
118. Milojevic T, Kölbl D, Ferrière L, Albu M, Kish A, Flemming RL, Koeberl C, Blazevic A, Zebec Z, Rittmann SKR, Schleper C, Pignitter M, Somoza V, Schimak MP, Rupert AN (2019) Exploring the microbial biotransformation of extraterrestrial material on nanometer scale. **Scientific reports** 9: 18028. DOI: 10.1038/s41598-019-54482-7.
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116. Siljanen HMP, Alves RJE, Ronkainen JG, Lamprecht RE, Bhattarai HR, Bagnoud A, Marushchak ME, Martikainen PJ, Schleper C, Biasi C (2019) Archaeal nitrification is a key driver of high nitrous oxide emissions from arctic peatlands. **Soil Biology and**

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115. Manoharan L, Kozlowski JA, Murdoch RW, Löffler FE, Sousa FL, Schleper C (2019) Metagenomes from Coastal Marine Sediments Give Insights into the Ecological Role and Cellular Features of Loki- and Thorarchaeota. **mBio** 10 (5): e02039-19. DOI: 10.1128/mBio.02039-19.
114. Alves RJE, Kerou M, Zappe A, Bittner R, Abby SS, Schmidt HA, Pfeifer K, Schleper C (2019) Ammonia Oxidation by the Arctic Terrestrial Thaumarchaeote Candidatus *Nitrosocosmicus arcticus* Is Stimulated by Increasing Temperatures. **Frontiers in Microbiology** 10: 1571. DOI: 10.3389/fmicb.2019.01571.
113. Bassani F, Zink IA, Pribasniig T, Wolfinger MT, Romagnoli A, Resch A, Schleper C, Bläsi U, La Teana A (2019) Indications for a moonlighting function of translation factor alF5A in the crenarchaeum *Sulfolobus solfataricus*. **RNA Biology** 16(5): 675-685. doi: 10.1080/15476286.2019.1582953.
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111. Kozlowski J, Johnson ME, Ledesma-Vázquez J, Birgel D, Peckmann J, Schleper C (2018) Microbial diversity of a closed salt lagoon in the Puertecitos area, Upper Gulf of California. **Ciencias Marinas** 44(2): 71-90. doi: 10.7773/cm.v44i2.2825.
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106. Alves RJE, Minh BQ, Urich T, von Haeseler A, Schleper C (2018) Unifying the global phylogeny and environmental distribution of ammonia-oxidising archaea based on amoA genes. **Nature communications** 9(1): 1517. doi: 10.1038/s41467-018-03861-1.
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