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Animal burrowing at cold seep ecotones boosts productivity by linking macromolecule turnover with chemosynthesis and nutrient cycling

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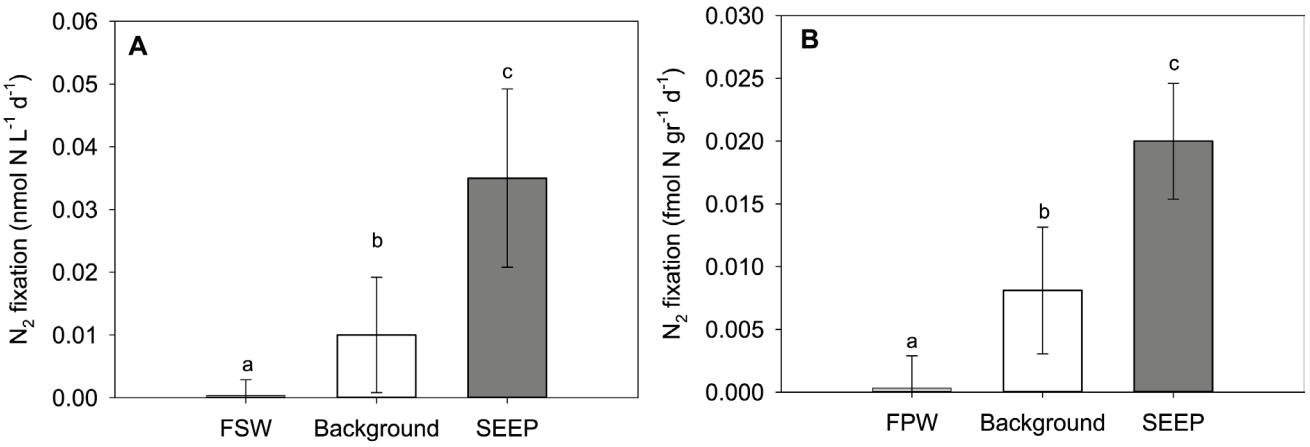

Figure S1: N_2 fixation rates at the overlying water (A, ~1 m above seabed) and in the top sediment (B, upper 3 cm) in an active SEEP site (AG16-17BC1, grey) and in a background station (AG16-15BC1). The plot shows averages and corresponding standard deviation of three replicates. Filtered seawater (FSW) or filtered porewater (FPW) served as a control.

Figure S2: Read abundance of the top 50 most prevalent prokaryote taxa at the genus level, in bioturbated sediments from Palmahim Disturbance seep pockmark and the hindgut of the ghost shrimp *Calliax lobata.*