

Microbial communities of subtidal shallow sandy sediments change with depth and wave disturbance, but nutrient exchanges remain similar

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Supplement 1. Sources of fatty acid and neutral lipids

Table S1. Sources of fatty acids

Organism	fatty acid
Diatoms	14:0 ^{1,2,5} , 16:0 ^{2,3} , 16:1 ω 7 ^{2,3} , 17:0 ³ , 18:0 ³ , 18:1 ω 9 ¹⁰ , 18:2 ω 6 ³ , 20:5 ω 3 ^{2,12} , 22:6 ω 3 ¹⁸
Chlorophytes	18:1 ω 9 ⁵ , 18:2 ω 6 ⁵ , 16:4 ω 3 ⁵
Cyanophytes	16:0 ⁵ , 16:1 ω 7 ⁵ , 16:4 ω 3 ⁷ , 18:1 ω 9 ^{5,8} , 18:0 ⁷ ,
Bacteria	14:0 ¹⁶ , 15:0 ^{15,16} , 15:0 ^{15,16} , 15:0 ^{14,6} , 17:0 ^{11,6} , 17:1 ω 8 ¹⁴ , 18:1 ω 7 ¹³ ,
Heterotrophs	15:0 ¹⁴ , 22:6 ω 3 ¹⁷

¹(Saito et al. 2002), ²(Volkman et al. 1989), ³(Rousch et al. 2003), ⁴(Burns, Volkman et al. 2003), ⁵(Volkman 1986), ⁶(Budge and Parrish 1998), ⁷(Li and Watanabe 2001), ⁸(Wakeham 1995), ⁹(Napolitano 1999), ¹⁰(Saito et al. 2002; Volkman et al. 1998), ¹¹(Kharlamenko et al. 2001), ¹²(Mock and Kroon 2002), ¹³(Volkman et al. 1998), ¹⁴(Sass et al. 2002), ¹⁵(Yoon et al. 2003), ¹⁶(Pancost and Sinninghe Damsté 2003), ¹⁷(Zhukova and Kharlamenko 1999), ¹⁸(Dunstan et al. 1994).

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Table S2. Sources of neutral lipids

source	lipid
autotrophs	phytol (from the chlorophyll molecule) ¹
BMA	brassicasterol ² (mainly diatoms), 24-methylene cholesterol (diatoms, mainly centrics) ² , campesterol ^{2, 11, 12} , stigmasterol ^{5, 6, 11, 12} , sitosterol ^{5, 6, 11, 12} , 22-dehydrocholesterol ¹³ , dinosterol ⁷ , cholesterol ²
heterotrophs	cholesterol ^{3, 4} (also from sediment reworking), dinosterol ^{2, 7} (mainly dinoflagellates),
seagrass	campesterol ⁹ , stigmasterol ⁹ , sitosterol ⁹
bacteria	glycerol ether diols ^{8, 10} - 14:0, i15:0, a15:0, 15:0, 16:0, i17:0, a17:0, 17:0, 18:0

¹(Johns et al. 1980), ²(Volkman 2003), ³(Weete et al. 1997), ⁴(Lewis et al. 2001), ⁵(Volkman 1986), ⁶(Jones et al. 1987), ⁷(Volkman et al. 1993), ⁸(Volkman et al. 1986), ⁹(Volkman et al. 1999), ¹⁰(Pancost & Sinninghe Damsté 2003), ¹¹(Gladu et al. 1991), ¹²(Jaffé et al. 1995), ¹³(Akihisa et al. 1991).

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