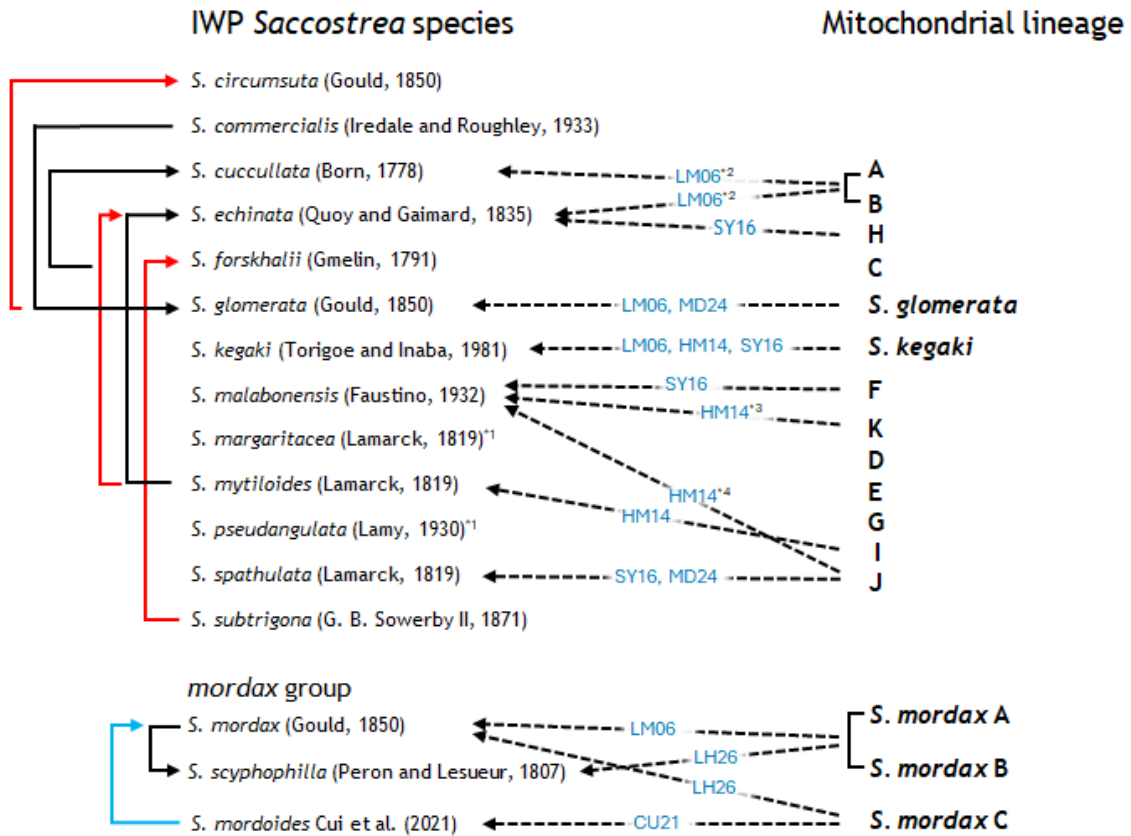


Supplementary Material 1. Summary of synonymy and mitochondrial lineages of Indo-West Pacific (IWP) *Saccostrea* oysters



This list of IWP *Saccostrea* species is based on Table 2 of Sekino and Yamashita (2016). Proposed cases of synonymy from previous authorities are indicated by colored arrows on the left: red (Inaba and Torigoe, 2004), black (Huber, 2010), and light blue (Lukehurst et al., 2026). For instance, Inaba and Torigoe (2004) considered *S. glomerata* a synonym of *S. circumsuta*, whereas Huber (2010) treated *S. gromerata* as valid and assigned *S. commercialis* as its synonym. Mitochondrial lineages reported in previous barcoding studies are listed on the right. Dotted arrows represent possible links between these lineages and nominal species, with abbreviations indicating the respective data sources (LM06: Lam and Morton, 2006); HM14: Hamaguchi et al., 2014; SY16: Sekino and Yamashita, 2016; CU21: Cui et al., 2021; MD24: McDougall et al., 2024; and LH26: Lukehurst et al., 2026). Note that these links are often based on tentative associations rather than definitive morphological evidence.

^{*1}Huber (2010) tentatively assigned *S. margaritacea* and *S. pseudangulata* to the genera *Striostrea* and *Pustulostrea*, respectively.

^{*2}Lam and Morton (2006) considered that *S. echinata* might represent a juvenile form or ecotype of *S. cuccullata*.

^{*3}Lineage *S. malbonensis*-2 (Hamaguchi et al., 2014) is referred to as “Lineage K” in the present study (see main text).

^{*4}Lineage *S. malbonensis*-1 (Hamaguchi et al., 2014) was subsequently reassigned to “non-*mordax* J” by Sekino and Yamashita (2016).

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