

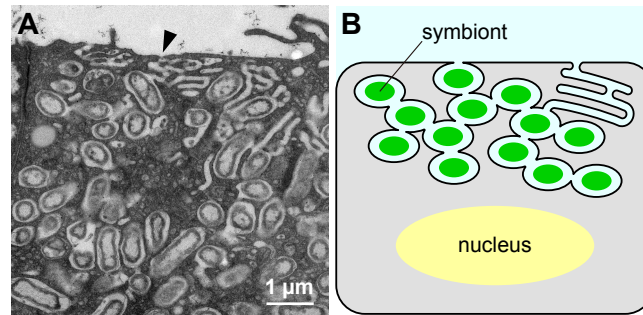


Figure S1. Ultrastructure and schematic representation of a mature bacteriocyte in adult *Bathymodiolus septemdiarum*. (A) Transmission electron micrograph (TEM) of a representative mature bacteriocyte in an adult mussel (apical side up). Black arrowhead indicates an opening to the external extracellular space via occasionally observed multi-layered membranous passages. (B) Corresponding schematic diagram illustrating the interconnected chamber network and its pathways connecting to the external environment.