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**Nucleotide sequences of 5S ribosomal RNAs from three marine eubacteria: *Shewanella hanedai*, *Alteromonas colwelliana* and *Vibrio mediterranei***


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To estimate the phylogenetic position of each bacterial species, the nucleotide sequences of the 5S ribosomal RNAs from three Gram-negative marine eubacteria, *Shewanella hanedai*, *Alteromonas colwelliana* and *Vibrio mediterranei* were determined by chemical and enzymatic methods (1). The 5S rRNA of *Shewanella hanedai* (basonym: *Alteromonas hanedai*) has 98% homology to that of *Alteromonas colwelliana*. This implies that the two species are members of the same genus.

*Shewanella hanedai* ATCC 33224 (type strain)

<b>UGUCUGGAAA</b>	<b>CCAUAGCAUU</b>	<b>GUGGCCCCAC</b>	<b>CUGAUCCCAU</b>
<b>CCCGAACUCA</b>	<b>GAAGUGAAAC</b>	<b>GCAAUCGCGC</b>	<b>CGAUGGUAGU</b>
<b>GUGGGGUCUC</b>	<b>CCCAUGUGAG</b>	<b>AGUAGGUCAU</b>	<b>UCCAGGCGC</b>

*Alteromonas colwelliana* ATCC 39565

<b>UGUCUGGAAA</b>	<b>CCAUAGCAUU</b>	<b>GUGGCACCAC</b>	<b>CUGAUCCCAU</b>
<b>CCCGAACUCA</b>	<b>GAAGUGAAAC</b>	<b>GCAAUUGCGC</b>	<b>CGAUGGUAGU</b>
<b>GUGGGGUCUC</b>	<b>CCCAUGUGAG</b>	<b>AGUAGGUCAU</b>	<b>UCCAGGCGC</b>

*Vibrio mediterranei* ATCC 43341 (type strain)

<b>UGCUUGGCGA</b>	<b>CCAUAGCGUU</b>	<b>GUGGACCCAC</b>	<b>CUGAUUCCAU</b>
<b>GCCGAACUCA</b>	<b>GAAGUGAAAC</b>	<b>GCAAUAGCGC</b>	<b>CGAUGGUAGU</b>
<b>GUGGGGCUUC</b>	<b>CCCAUGUGAG</b>	<b>AGUAGGACAU</b>	<b>CGCCAGGCUU</b>

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