

عنوان مقاله:

Bacterial diversity in the intestine of sea cucumber *Stichopus japonicus*

محل انتشار:

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خلاصه مقاله:

The intestinal bacterial diversity of *Stichopus japonicus* was investigated using 16S ribosomal RNA gene (rDNA) clone library and Polymerase Chain Reaction/Denaturing Gradient Gel Electrophoresis (PCR-DGGE). The clone library yielded a total of 188 clones, and these were sequenced and classified into 106 operational taxonomic units (OTUs) with sequence similarity ranging from 88 to 100%. The coverage of the library was 77.4%, with approximately 88.7% of the sequences affiliated to Proteobacteria. Gammaproteobacteria and *Vibrio* sp. were the predominant groups in the intestine of *S. japonicus*. Some bacteria such as *Legionella* sp., *Brachybacterium* sp., *Streptomyces* sp., *Propionigenium* sp. and *Psychrobacter* sp were first identified in the intestine of sea cucumber

کلمات کلیدی:

Intestinal bacterial diversity, 16S rDNA, PCR-DGGE, Sequencing, *Stichopus japonicus*

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