Characterization of the diversity of marine RNA viruses

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Abstract

The diversity of ribonucleic acid (RNA) viruses in the ocean and the ongoing isolation and characterization of RNA viruses that infect important primary producers suggests that RNA viruses are active members of the marine microbial assemblage. At this point, little is known about the composition, dynamics, and ecology of the RNA virioplankton. In this collection, we describe two methods to assess RNA virus diversity from seawater.

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Collection

PROTOCOLS

1. A degenerate primer reverse transcriptionpolymerase chain reaction protocol to determine the diversity of picorna-like viruses

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2. Construction of shotgun libraries from RNA virus assemblages

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