A concise review of the bioactivity and pharmacological properties of the genus *Codium* (Bryopsidales, Chlorophyta)

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Abstract	The genus Codium is one of the most important genera of marine green macroalgae. Its distribution is widespread worldwide and it has a high degree of diversity in species and characteristics. This genus plays an important ecological role in marine ecosystems as it is a primary producer. However, some species in the genus Codium are invasive species and may disturb the functioning of the ecosystem. Economically, Codium has promising potential as a source of diverse nutritional and pharmacological compounds. Codium is edible, has a high nutrient value, and is rich in bioactive compounds. Hence, some species of Codium have been consumed as food and used as herbal medicines in some Asian countries. In recent decades, studies of the bioactivity and pharmacological properties of the genus Codium have attracted the attention of scientists. This review aims to identify gaps in studies analyzing Codium that have been conducted in the past three decades by assessing published research articles on its bioactivity and pharmacological properties. Compounds obtained from Codium have demonstrated significant biological activities, such as immunostimulatory, anticoagulant, anticancer, anti-inflammatory, antioxidant, antiviral, antibacterial, antifungal, antitumor, anti-angiogenic, osteoprotective, and anti-obesity activities. This review provides information that can be used as a future guideline for sustainably utilizing the genus Codium.
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