

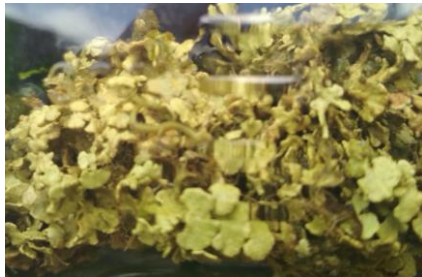
Seaweeds

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Edible seaweeds contains biologically active compounds with potential application in functional food and nutraceuticals. The present study is set to investigate the antidiabetic, antioxidant and antimicrobial activities of edible seaweeds of Portuguese coastal region. Three well known edible seaweeds namely *Halimeda gracilis*, *Gracilaria* sp and *Caulerpa racemosa* will be identified and collected from Portuguese coastal region. This will be followed by extraction of seaweeds with different solvents. The extracts with positive antidiabetic, antioxidant or antimicrobial activities will further be characterized for active compounds. The effect of active seaweeds through *in vitro* and animal studies will further analyzed.

Research on the interaction of active compounds with human cellular system could provide better understanding of molecular mechanism of action of glucose homeostasis. Inclusion of the active seaweeds in the form of nutraceutical for regular diet intake will also be attempted.

Halimeda gracilis



Gracilaria sp



Caulerpa racemosa

