

April 16-17, 2018 Amsterdam, Netherlands

Hajar Heydari et al., Am J Ethnomed 2018, Volume 5 DOI: 10.21767/2348-9502-C1-006

ANTIOXIDANT ACTIVITY OF SOME TURKISH MARINE DERIVED FUNGI

Hajar Heydari and Belma Konuklugil

Ankara University, Turkey

he marine habitat is a rich source of bioactive natural compounds with pharmaceutical potential. Some of them are novel compound with novel mechanisms of action (1). Marine derived Fungi which isolated from marine species such as sponges, anemone, tunicate and etc. have become a focus of interest. In recent years marine fungi have arised as the new sources of antioxidants in the form of their wide variety of secondary metabolites such as alkaloids, benzoquinones, flavanoids, phenols, steroids, terpenoids, tetralones, and xanthones(2,3). Numerous studies about diverse and unique compounds of marine fungi and their biological activities including antimicrobial, antioxidant, anticancer, anti-inflammatory and antiviral properties have been reported (4). In this study seven marine-derived fungi were isolated and identified from marine invertebrates and investigated with regard to their antioxidant activity. Antioxidant activity of extracts was determined by DPPH, ABTS, NO and SO assay. According to the obtained results A.chevalieri and A. terreus showed high antioxidant activity in every four assays. On the other hand, A.awamori, M.globose, M. tassiana_1 and T. harzianum showed lowest activity. This is the first study about habitant of marine-derived seven fungi of Turkey's coasts and their antioxidant, activity. Besides, it is also the first report about antioxidant activity of C. Funiculosum and A. awamori

Acknowledgement

This work was supported by the Scientific and Technological Research Council of Turkey (TÜBİTAK), Project No: BMBF, 114S916.

References

- 1. Montaser R. and Luesch H., Future Medicinal Chemistry. 2011, 3(12): 1475–1489.
- Arora DS, Chandra P. Chandra Antioxidant activity of fungi isolated from soil. *Brazilian Journal of Microbiology*. 2010;41:465–477
- Daljit Singh Arora and Priyanka Chandra ., Antioxidant Activity of Aspergillus fumigatus. ISRN Pharmacol. 2011; 2011: 619395.
- 4. Zainuddin N., Alias S.A., Lee C.W., EbelR., Othman N.A., et al., Botanica Marina, 2010, 53 : 507–513.

belma.konuklugil@gmail.com

6th Edition of International Conference on

Pharmacognosy and Medicinal Plants