

Accepted Manuscript

How to trace the geographic origin of mushrooms?

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PII: S0924-2244(18)30210-3

DOI: [10.1016/j.tifs.2018.06.008](https://doi.org/10.1016/j.tifs.2018.06.008)

Reference: TIFS 2249

To appear in: *Trends in Food Science & Technology*

Received Date: 2 April 2018

Revised Date: 29 April 2018

Accepted Date: 17 June 2018

Please cite this article as: El Sheikha, A.F., Hu, D.-M., How to trace the geographic origin of mushrooms?, *Trends in Food Science & Technology* (2018), doi: 10.1016/j.tifs.2018.06.008.

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1 ABSTRACT

2 Mushrooms became one of the most popular food resources worldwide that are very appreciated
3 by consumers. Fresh produce properties including mushrooms are obviously varied based on
4 their geographical origins. In view of the significant increase in the world's production of
5 mushrooms, this will be accompanied by the increasing attention of all actors in the international
6 food trade system (producers, traders, consumers and the authorities) to obtain a safe and high-
7 quality commodity. This can be achieved through the implementation of an efficient and
8 universal geo-tracing technique. Current approaches of geo-tracing mushrooms are few and have
9 several limitations. Our intent is to suggest the DNA barcoding as a potent and universal method
10 for mushrooms geo-traceability.

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22 **Keywords:** Mushroom, Multidimensional importance, Geo-traceability, Certification system,
23 Analytical approaches, DNA barcoding

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