

AdFoodChem International Conference 15-17th April 2021



Analytical methods suitable for authentication of organic products

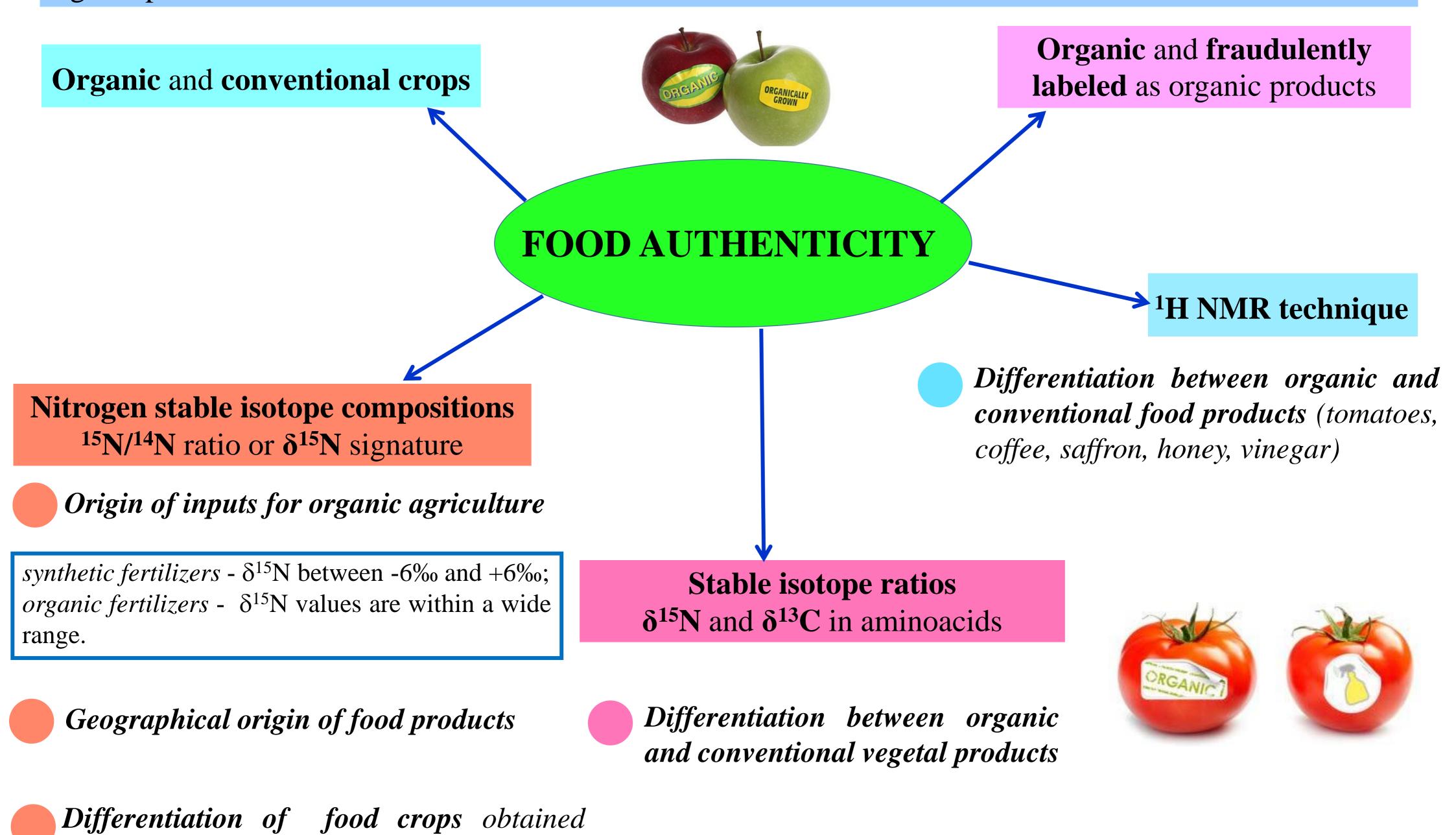
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Abstract

Nowadays, organic agriculture gained a lot of interest, contributing to environmental and animal protection and to consumers' demand for healthy food. To fulfill consumers' requirements related to organic products, food authenticity has become a major challenge and supposes development of analytical methods able to discriminate between organic and conventional crops or between organic and those fraudulently labeled as organic products.



Conclusions

The demand for organically obtained products has increased considerably and this is related to proven higher nutritional quality. Hence, consumers' concerns regarding correct labeling and authenticity of organic products led to the development of analytical methods which certify the nature of the food products.

References (selection)

under organic and conventional systems

- 1. A.Bateman, S.Kelly, Fertilizer nitrogen isotope signatures, Isotopes in Environmental and Health Studies, 43(3), (2007), pp.237-247.
- **2.** Hohmann, N.Cristoph, H.Wachter, U. Holzgrabe, ¹H NMR profiling as an approach to differentiate conventionally and organically grown tomatoes, Journal of Agricultural and Food Chemistry, 62(33), (2014), pp.8530-8540.

Acknowledgements

This work is consistent with research directions and guidelines specified by Ministry of Agriculture and Rural Development in project ADER 1.4.4. *Identification, evaluation, testing, development and validation of analysis methods of nutrients and contaminants from inputs usable in organic agriculture.*