



1st webinar on Food Metrology – Food Authenticity -

The 1st seminar of the Greek Node of the European Research Infrastructure METROFOOD-RI was successfully held (online) on Wednesday, March 9, 2022.

The seminar was devoted to "Food Metrology - Food Authenticity" topic and was the first of a series of scientific seminars that will follow the next period aiming at highlighting critical metrological issues related with food production, processing and quality control. The event was held online and it was freely accessible for young scientists, potential partners of METROFOOD-GR and scientific researchers from Greece or abroad having relevant interests and background. It was organized by the coordinator group of METROFOOD-GR (AUPh) in participation with representatives and other member bodies of the node (Chemical Metrology Service-EXHM/I, Agricultural University of Athens, University of Ioannina). Dr. S. Ordoudi (Laboratory of Food Chemistry & Technology, School of Chemistry, AUPh) was the coordinator of the event.

The program started with an overview presentation of the METROFOOD-RI/METROFOOD-GR aims and perspectives by the coordinator of the Node, Prof. M. Tsimidou (School of Chemistry, AUPh) and followed by Dr. H. Kakoulides (Metrology Service, GHK / AADE), Assoc. Professor A. Asimopoulou (Department of Chemical Engineering, AUPh), Prof. I. Gerathanasis (NMR Center, University of Ioannina), Dr. P.K Revelou, Postdoctoral Researcher (Department of Food Science and Nutrition, Agric. Univ. of Athens), Dr. M. Basalekou, Research Associate (Department of Food Science and Nutrition, Agric. Univ. of Athens) Dr. D. Kodra, Postdoctoral Researcher (School of Chemistry, AUPh) and Dr. Stella Ordoudi (School of Chemistry, AUPh).



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 Wednesday
March 9th 2022
10:00 - 13:30 EEST



METROFOOD-PP has received funding from the European Union's Horizon 2020 research and innovation programme under GA No.871083

More info:

metrofood.gr




We cordially invite you to join the

1st webinar on Food Metrology – Food Authenticity -

which will be held on

Wednesday, 9th of March 2022 || 10:00-13:30

no registration needed, simply click on the link

<https://authr.zoom.us/j/98717957820?pwd=ajlNl1RpMlRmZHU0Q25WlRmd0RkEzZ09>

Meeting ID: 987 1795 7820
Passcode: 136687

PROGRAMME	
09:45-10:00	Getting connected to the platform
10:00-10:20	INTRODUCTION
10:00-10:05	Welcome <i>Dr. Stella Ordoudi, Researcher, School of Chemistry, Aristotle Univ. of Thessaloniki, GR</i>
10:05-10:20	METROFOOD-RI/METROFOOD-GR-An overview <i>Maria Tsimidou, Professor, Coordinator of the Greek Node, School of Chemistry, Aristotle Univ. of Thessaloniki, GR</i>
10:20-11:30	Session 1: Metrology & Food Authenticity challenges
10:20-10:40	Metrology in the adulteration of foodstuffs <i>Dr. Elias Kakoulides, Laboratory Head, Chemical Metrology Service, General Chemical State Lab/Hellenic Metrology Institute, Athens, GR</i>
10:40-11:00	Challenges and issues in measurement of natural products, food and pharmaceutical matrices <i>Andreana Assimopoulou, Assoc. Professor, Coordinator of the Nat-Pro Research Centre of Excellence, School of Chem. Engineering, Aristotle Univ. of Thessaloniki, GR</i>
11:00-11:20	Metrology in lipid hydroperoxides: The NMR perspective <i>Ioannis Gerothanassis, Professor Emeritus, NMR Center, Univ. of Ioannina, GR</i>
11:20-11:30	Q&D
11:30-11:40	

11:40-13:00	Session 2: Demonstration of applications
11:40-12:00	Discrimination of botanical origin of olive oil from selected Greek cultivars by SPME-GC-MS and ATR-FTIR spectroscopy combined with chemometrics <i>Dr. Panagiota-Kyriaki Revelou, Postdoctoral Researcher, Dept. Food Science & Human Nutr., Agric. Univ. of Athens, GR</i>
12:00-12:20	Authentication of wine by FT-IR <i>Dr. Marianthi Basalekou, Scientific Associate, Dept. Food Science & Human Nutr., Agric. Univ. of Athens, GR</i>
12:20-12:40	Presentation of the FoodOmics GR database <i>Dr. Dritan Kodra, Postdoctoral Researcher, School of Chemistry, Aristotle Univ. of Thessaloniki, GR</i>
12:40-13:00	Metrological issues in FTIR-based applications for the detection of saffron adulteration with synthetic dyes <i>Dr. Stella Ordoudi, Researcher, School of Chemistry, Aristotle Univ. of Thessaloniki, GR</i>
13:00-13:30	Q&D
	Closure

For more information on the WEBINAR and the Infrastructure, please visit: www.metrofood.gr



METROFOOD-RI Preparatory Phase Project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 871083

METROFOOD-RI -Infrastructure for promoting Metrology in Food and Nutrition is a new distributed Research Infrastructure aimed to promote scientific excellence in the field of food quality and safety.

It provides high-quality metrology services in food and nutrition, comprising an important cross-section of highly interdisciplinary and interconnected fields throughout the food value chain, including agrifood, sustainable development, food safety, quality, traceability and authenticity, environmental safety, and human health.

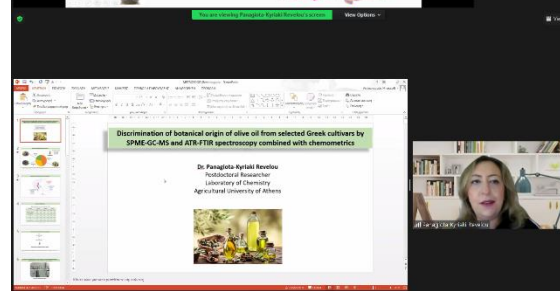
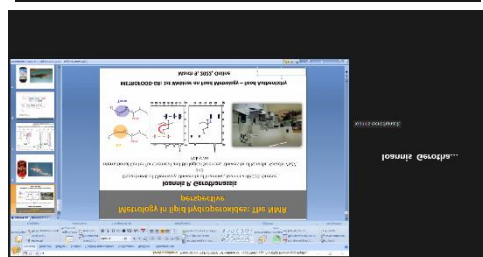
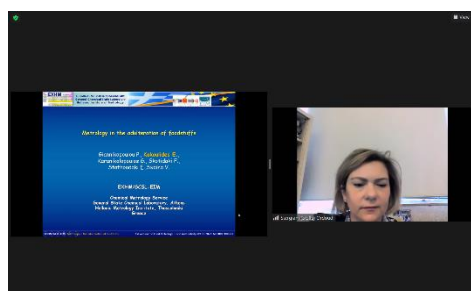
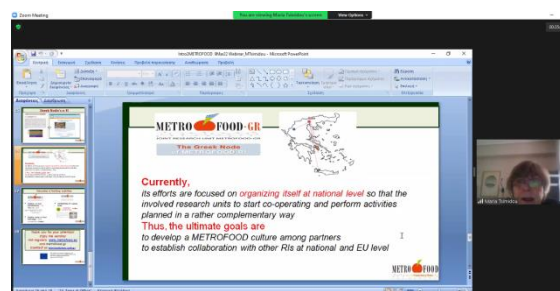
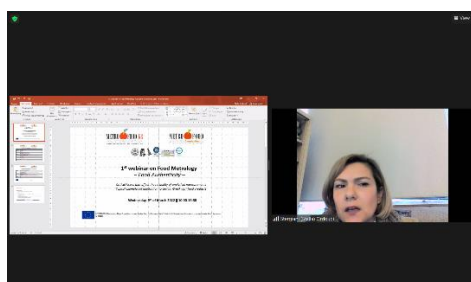
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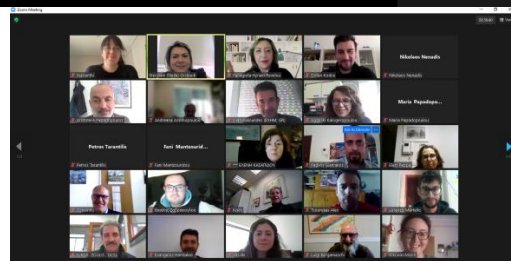
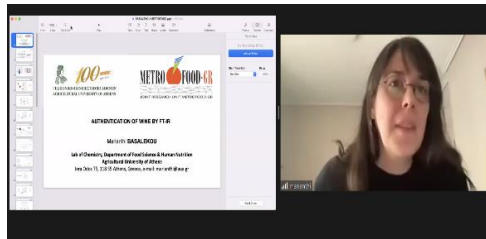
The programme gathered the interest of more than 110 participants, mostly young scientists, postgraduate students and PhD candidates as well as experienced researchers from academia and other scientific research institutes in Greece and abroad (National

Research Council/IT, Wageningen Food Safety Research/NL, University of Chemistry and Technology/CZ).

The topics that were discussed highlighted critical issues of reproducibility and reliability of analytical measurements that need to be taken into account when new methods for the detection of adulteration and food authentication are developed. To gain a better view of the importance of these issues, the speakers described typical examples of application to traditional, Greek agri-food products (olive oil, wine, saffron), as well as how analytical results for various Greek origin products can be exploited through the online database of the National FoodOmicS-GR Infrastructure. The potential for further improvement of the quality of measurements and possible extension of the application field of these methods, in line with the scientific objectives of METROFOOD-RI in this specific research field, were also discussed.

Many participants sent their positive feedback and made suggestions for other relevant issues that could be raised to a following event. Based on these responses, it is recognized that the scientists need to further develop their knowledge and skills on the development of a research methodology for the assessment of food authenticity. Above all, the requirements for the creation and validation of a reference database or of appropriate certified reference materials as well as better understanding of the global policies and legislation of food controls (labeling, fraudulent practices) were considered as of the most challenging topics in this field of research.





Some snapshots taken during the webinar

The programme, CVs of the speakers and brief abstracts of their presentations are freely accessible through www.metrofood.gr.



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