

JRU METROFOOD-MK AS A PART OF METROFOOD-RI - INFRASTRUCTURE FOR PROMOTING METROLOGY IN FOOD AND NUTRITION

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Abstract

METROFOOD-RI Infrastructure for Promoting Metrology in Food and Nutrition will be built on a Hub and Node model constituted by a Central Hub in Italy and a network of 18 Countries. Macedonian Node comprises of two Institutions: Institute of Public Health and Faculty of Agriculture and Food Science named as Joint Research Unit -Metrofood-MK. METROFOOD-RI aimed to promote scientific excellence in the field of food quality and safety.

The infrastructure includes both the physical and electronic infrastructure. Concerning the physical research infrastructure, the facilities that will be networked include plants and laboratories for Reference Material (RMs), analytical laboratories, experimental fields/farms for food production, facilities for food processing, storage and preparation. The following activities will be performed: characterization of new RMs, the organization and management of inter-laboratory tests; the development and validation of new analytical methods and devices. Regarding agro-food sector, the focus will be on the identification of chemical and biological markers for food origin as well as food quality and safety. Experimental studies for evaluating nutritional value and contaminant contents of foods produced in different geographic regions will be also conducted. As part of the activities, the evaluation of exposure through diet and risks related to the application of new technologies in food production and packaging giving emphasis to nanotechnologies will be performed.

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The existing capacities of the Institute of Public Health and Faculty of Agriculture and Food Science will be particularly exploited in terms of characterization of reference materials and performing analysis of food quality and safety.

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