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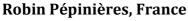


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SUPPORTED BY









Scientific Committee

Gerad Chevalier

Institut national de la recherche agronomique INRA Clermont Ferrand, France

Prof. Dr Giovanni Paccioni

Department of Life, Health and Environmental Sciences, University of L'Aquila, 67100 L'Aquila, Italy

Dr Christina Weden

Research Group of Pharmacognosy, Department of Pharmaceutical Biosciences, Uppsala University, Box 591, S-751 24 Uppsala, Sweden

Dr Antonella Amicucci

Department of Biomolecular Sciences, Urbino University, Urbino, Italy

Dr Claude Murat

Université de Lorraine, INRAE, Centre INRAE Grand-Est 54280 Champenoux

Dr Gilberto Bragato

Council for Agricultural Research and Analysis of the Agricultural Economy - Research Centre on Viticulture and Enology. Gorizia – Italy

Dr Sergi Garzia Barreda

Departamento de Ciencia Vegetal, Centro de Investigación y Tecnología Agroalimentaria de Aragón (CITA), Av. Montañana 930, 50059 Zaragoza, Spain

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Dr Domizia Donnini

Department of Agricultural, Food and Environmental Sciences, University of Perugia, Italy

Dr Mirco Iotti

Department of Life, Health and Environmental Sciences (MESVA), University of L 'Aquila, via Vetoio, 67100 L 'Aquila, Italy

Dr Žaklina Marjanović

University of Belgrade-Institute for Multidisciplinary Research, Belgrade, Serbia

Dr Jasmina Glamočlija

University of Belgrade, Institute for Biological Research "Siniša Stanković", Belgrade, Serbia

Dr Elmira Saljnikov

Institute of Soil Science, Belgrade, Serbia

Dr Aleksandar Knežević,

University of Belgrade, Faculty of Biology, Belgrade, Serbia

Organizing Committee:

Dr Žaklina Marjanović

University of Belgrade-Institute for Multidisciplinary Research, Belgrade, Serbia

Dr Christina Weden

Research Group of Pharmacognosy, Department of Pharmaceutical Biosciences, Uppsala University, Box 591, S-751 24 Uppsala, Sweden

MSc Lana Kukobat

University of Belgrade-Institute for Multidisciplinary Research, Belgrade, Serbia

MSc Radoslava Nikolić

University of Belgrade-Institute for Multidisciplinary Research, Belgrade, Serbia

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University of Belgrade-Institute for Multidisciplinary Research, Belgrade, Serbia

MSc Tara Grujić

Institute of Soil Science, Belgrade, Serbia

Where do we stand on the knowledge of *T. magnatum* environments? Progress and new research hypotheses

Bragato, G.1, Marjanović, Ž.2

¹Council for Agricultural Research and Analysis of the Agricultural Economy - Research Centre on Viticulture and Enology. Via Trieste 23 – 34170 Gorizia – Italy;

²University of Belgrade- Institute for Multidisciplinary Research, Kneza Višeslava 1, 11000 Belgrade, Serbia.

Knowledge about the environments of T. magnatum has been consolidated in the 2000s, confirming the importance of microclimate and that of specific soil types that, in fact, restrict the areas of natural spread of the fungus. In recent years, investigations have focused on two distinct themes: on the one hand, mycorrhization techniques have been refined, leading to the commercial production of mycorrhized plants and the establishment of the first experimental truffle orchards; on the other hand, the hydrological aspects of natural truffle areas, previously left in the background, have begun to be studied. The first topic has yielded interesting results with the start of production in areas never reported as productive and promises to expand the territories in which to "cultivate" *T. magnatum*. The second line of investigation is providing insights into the need for specific water management of truffles - natural and cultivated focused on soil water conservation. For the future, it will be necessary to work in depth on this aspect. The natural environments of *T. magnatum* are characterized by a great need for water, which we hypothesize can be managed at the scale of micro-hydrographic basin, since the exclusive use of irrigation practices adopted, for example, for *T. melanosporum* is not economically viable.