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Implementation of integrated and innovative Precision Agriculture management strategies to reduce the occurrence of ochratoxins along the vine value chain products: grapes, raisins/currants and wine

### HORIZON 2020

Implementation of integrated and innovative Precision Agriculture management strategies to reduce the occurrence of ochratoxins along the vine value chain products: grapes, raisins/currants and wine

# **Results**

Project Information		
OchraVine Control Grant agreement ID: 778219		Funded under EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions
Project website 🔀		<b>Total cost</b> € 1 183 500,00
DOI 10.3030/778219		<b>EU contribution</b> € 1 183 500,00
Project closed		Coordinated by GEOPONIKO PANEPISTIMION
<b>EC signature date</b> 10 November 2017		ATHINON Greece
<b>Start date</b> 1 January 2018	End date 31 October 2023	

CORDIS provides links to public deliverables and publications of HORIZON projects.

Links to deliverables and publications from FP7 projects, as well as links to some specific result types such as dataset and software, are dynamically retrieved from



## **Deliverables**

Documents, reports (5)

OchraVine Control Communication and Dissemination Strategy: will outline the description of the project assets, the target groups, the communication tools/instruments to be used for different audiences, the planning of foreseen actions

OchraVine Control Dissemination Materials: As common dissemination tools, project materials will be developed by the end of the first half of project's lifetime

Report on OchraVine Control Events and Dissemination: Following each event, a brief report will be elaborated including all relevant material - 2

Report on OchraVine Control Events and Dissemination: Following each event, a brief report will be elaborated including all relevant material - 1

OchraVine Control Web-portal, Blog and Social Media Groups: OchraVine Control Web-portal and Social Media Groups will function as a single point of access, as a knowledge repository and communicator and as a key dissemination vehicle for project activitie [2] OchraVine Control Web-portal, Blog and Social Media Groups: OchraVine Control Web-portal and Social Media Groups will function as a single point of access, as a knowledge repository and communicator and as a key dissemination vehicle for project activities and results

## **Publications**

Peer reviewed articles (7)

From Grapes to Wine: Impact of the Vinification Process on Ochratoxin A Contamination. F **Author(s):** La Placa, L.; Tsitsigiannis, D.; Camardo Leggieri, M.; Battilani, P. **Published in:** Foods, Issue 12, 2023, Page(s) 260, ISSN 2304-8158 **Publisher:** MDPI **DOI:** 10.3390/foods12020260 Analysis of volatile emissions from grape berries infected with Aspergillus carbonarius using hyphenated and portable mass spectrometry

Author(s): Konstantinos Giannoukos, Stamatios Giannoukos, Christina Lagogianni, Dimitrios I. Tsitsigiannis, Stephen Taylor Published in: Scientific Reports, Issue 10, 2022, ISSN 2045-2322 Publisher: Nature Publishing Group DOI: 10.1038/s41598-020-78332-z

Environmental Conditions Affecting Ochratoxin A during Solar Drying of Grapes: The Case of Tunnel and Open Air-Drying [2]

Author(s): Charalampos Templalexis, Paola Giorni, Diamanto Lentzou, Sabrina Mesisca, Dimitrios I. Tsitsigiannis, Paola Battilani and Georgios Xanthopoulos Published in: Toxins, Issue 13(6), 2021, Page(s) 400, ISSN 2072-6651 Publisher: Multidisciplinary Digital Publishing Institute (MDPI) DOI: 10.3390/toxins13060400

IoT for Monitoring Fungal Growth and Ochratoxin A Development in Grapes Solar Drying in Tunnel and in Open Air.

Author(s): Templalexis, C.; Giorni, P.; Lentzou, D.; Mozzoni, F.; Battilani, P.; Tsitsigiannis, D.I.; Xanthopoulos, G. IoT for Monitoring Fungal Growth and Ochratoxin A Development in Grapes Solar Drying in Tunnel and in Open Air **Published in:** Toxins, Issue 15, 613., 2023, ISSN 2072-6651 **Publisher:** Multidisciplinary Digital Publishing Institute (MDPI) **DOI:** 10.3390/toxins15100613

Development of thermography methodology for early diagnosis of fungal infection in table grapes: The case of Aspergillus carbonarius [2]

Author(s): N. Mastrodimos, D. Lentzou, Ch. Templalexis, D.I. Tsitsigiannis, G. Xanthopoulos
Published in: Computers and Electronics in Agriculture, Issue 165, 2019, Page(s) 104972, ISSN 0168-1699
Publisher: Elsevier BV
DOI: 10.1016/j.compag.2019.104972

Pest Management and Ochratoxin A Contamination in Grapes: A Review 🖸

Author(s): Letizia Mondani, Roberta Palumbo, Dimitrios Tsitsigiannis, Dionysios Perdikis, Emanuele Mazzoni, Paola Battilani
Published in: Toxins, Issue 12/5, 2020, Page(s) 303, ISSN 2072-6651
Publisher: Multidisciplinary Digital Publishing Institute (MDPI)
DOI: 10.3390/toxins12050303

Metabolomics Insight into the Variety-Mediated Responses to Aspergillus carbonarius Infection in Grapevine Berries

Author(s): Paola Giorni, Leilei Zhang, Luigi Bavaresco, Luigi Lucini, and Paola Battilani (Figure 173). Available in
Published in: ACS Omega, Issue 2023, 8, 36,, 2023, Page(s) 32352–32364, ISSN 2470-1343
Publisher: American Chemical Society
DOI: 10.1021/acsomega.3c01381

Conference proceedings (15)

Digital smart systems for diagnosis and control of plant diseases and mycotoxins in the framework of One Health

Author(s): D.I. Tsitsigiannis Published in: Scientific Conference: Food Safety a key pillar of One Health

approach, 2023, Page(s) EFET-EFSA (Hellenic and European Food Safety Authorities)

Publisher: Hellenic Food Safety Authority

Integrated pest management smart technologies to precisely detect and control plant diseases **Author(s):** D.I. Tsitsigiannis **Published in:** 12th International Congress of Plant Pathology, 2023 **Publisher:** International Society of Plant Pathology

Evaluation of resistance of vine varieties to A. carbonarius and ochratoxin contamination **Author(s):** M.K. Iliadi and D.I. Tsitsigiannis **Published in:** 19th Hellenic Phytopathological Conference, 2018 **Publisher:** Hellenic Plant Pathology Society **DOI:** 10.5281/zenodo.3731347

Population dynamics and characterization of Aspergillus section Nigri isolates from vineyards in Greece

Author(s): M.K. Iliadi, D. Magista, G.G. Perrone, A.F. Logrieco and D.I. Tsitsigiannis Published in: 19th Hellenic Phytopathological Conference, 2018 Publisher: Hellenic Plant Pathology Society DOI: 10.5281/zenodo.3731378

OchraVine Control - Implementation of integrated and innovative management strategies to reduce the occurrence of ochratoxins along the vine value chain products: grapes, raisins/currants and wine **Author(s):** D.I. Tsitsigiannis, C.S. Lagogianni, G. Xanthopoulos, S. Fountas, P. Battilani, S. Giannoukos, S. Taylor4, Z. Tsiropoulos, C. Drosou, S. Vasits, F. Chatzipapadopoulos, N. Marianos, B. Tisseyre και C. Moszkowicz **Published in:** 19th Hellenic Phytopathological Conference, 2018 **Publisher:** Hellenic Plant Pathology Society

Biological and chemical control of ochratoxigenic fungi in vineyards 🖸

Author(s): M.K. Iliadi, C.S. Lagogianni, M.D. Kaminiaris, E-F.N. Varvouni, A.X. Varympopi, E.I. Margaritis, N.S. Mastrodimos, K.E. Politis and D.I. Tsitsigiannis **Published in:** 19th Hellenic Phytopathological Conference, 2018 **Publisher:** Hellenic Plant Pathology Society **DOI:** 10.5281/zenodo.3731335

Analysis of ochratoxins using benchtop and portable mass spectrometry [2]

Author(s): S. Giannoukos, C.S. Lagogianni, G. Xanthopoulos, S.Fountas, D.I. Tsitsigiannis and S. Taylor
Published in: 19th Hellenic Phytopathological Conference, 2018
Publisher: Hellenic Plant Pathology Society
DOI: 10.5281/zenodo.3731286

OchraVine Control - Implementation of integrated and innovative management strategies to reduce the occurrence of ochratoxins along the vine value chain products: grapes, raisins/currants and wine

Author(s): D.I. Tsitsigiannis\*1, C.S. Lagogianni1, G. Xanthopoulos2, S. Fountas2, P. Battilani3, S. Giannoukos4, S. Taylor4, Z. Tsiropoulos5, C. Drosou6, S. Vasits6, F. Chatzipapadopoulos7, N. Marianos7, B. Tisseyre8,9 και C. Moszkowicz10 Published in: XIX International Plant Protection Congress - IPPC 2019, 2019, Page(s) 341-342 Publisher: IAPPS DOI: 10.5281/zenodo.3731404

Evaluation of the environmental impact of pre- and post-harvest practices for the examination of ochratoxins contamination through the grape to wine chain

Author(s): Drosou Christina, Tsitsigiannis Dimitrios and Xanthopoulos George Published in: 12th Hellenic Conference of Chemical Engineering, 2019 Publisher: Faculty of Chemical Engineering, Natioanal Technical University of Athens, Greece DOI: 10.5281/zenodo.3731497

Smart systems of plant disease diagnosis

Author(s): D. Tsitsigiannis, S. Fountas, G. Polder, G. Xanthopoulos, S. Taylor, P. Blok, J. Peller, N. Mylonas, L. Athanasakos, M. Iliadi, N. Mastrodimos, D. Lentzou, C. Templalexis, K. Giannoukos, S. Giannoukos, and C. Lagogianni.
Published in: Sustainable agriculture in the era of 5G, 2021
Publisher: AUA

Life cycle assessment in the grape to wine chain applying pre- and post-harvest practices for the examination of ochratoxins contamination.

**Author(s):** R. Goulimaris, C. Drosou C., Boukouvalas, D. Tsitsigiannis, G. Xanthopoulos

Published in: 13th Hellenic Scientific Conference on Chemical Engineering, 2022, Page(s) https://pesxm13.chemeng.upatras.gr/
Publisher: Chemical Engineering Society

Integrated smart systems for prognosis, diagnosis and control of plant diseases **Author(s):** D.I. Tsitsigiannis

**Published in:** 8th Hellenic Plant Protection Conference, 2023 **Publisher:** Hellenic Plant Protection

Integrated pest management smart technologies to precisely detect and control plant diseases **Author(s):** D.I. TSITSIGIANNIS **Published in:** 16th Congress of the Mediterranean Phytopathological Union, 2022, Page(s) https://cyprusconferences.org/mpu2022/ **Publisher:** Phytopatholgia Mediterranea

Evaluation of essential oils against Aspergillus carbonarius and their effects on ochratoxin A and AclaeA gene expression.

**Author(s):** M.K. Iliadi, C.K. Kavroumatzi, M. Varveri, E. Poulaki, and D.I. Tsitsigiannis

**Published in:** 14th International Conference of The World Mycotoxin Forum – WMF, 2023

Publisher: International Society of Mycotoxicology

Modeling environmental conditions during grapesdrying as these affectOchratoxin A development **Author(s):** C. Templalexis, P. Giorni, D. Lentzou, S. Mesisca, D.I. Tsitsigiannis, P.Battilani, G. Xanthopoulos **Published in:** Model - It VII International Symposium on Applications of

**Published in:** Model - It VII International Symposium on Applications of Modelling as an Innovative Technology in the Horticultural Supply Chain, 2023 **Publisher:** ISHS Acta Horticulturae

Last update: 4 December 2024

Permalink: https://cordis.europa.eu/project/id/778219/results

European Union, 2025

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