

**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

[Project website](#) 

DOI

[10.3030/778219](https://doi.org/10.3030/778219) 

Project closed

EC signature date

10 November 2017

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End date

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Total cost

€ 1 183 500,00

EU contribution

€ 1 183 500,00

Coordinated by


GEOPONIKO PANEPISTIMION
ATHINON
 Greece

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 events

[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 activities](#) 

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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](#) 

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*](#) 

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 !\[\]\(dd161862f9164df98f62b726e9846241_img.jpg\)](#)

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 !\[\]\(248b91fcdac4810ffd15cf33fb6aec6f_img.jpg\)](#)

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 and 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](#)

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, National 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: Phytopathologia 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 grapes drying as these affect Ochratoxin 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 Modelling as an Innovative Technology in the Horticultural Supply Chain, 2023

Publisher: ISHS Acta Horticulturae

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

European Union, 2025

