

Dr. MICHALAKIS CHRISTOFOROU

7 IOLKOU str., 3071, LIMASSOL, CYPRUS

Tel: 0035799173165, Email: m.christoforou@cut.ac.cy, m.christoforou@outlook.com

1. PERSONAL INFORMATION

Dr Michalakis Christoforou

Nationality: Cypriot

Date of Birth: 6th January 1981

Telephone Number: 00357 99173165

E-mail: m.christoforou@outlook.com

m.christoforou@cut.ac.cy

Home Address

7, Iolkou Street

Limassol

3071

Cyprus

2. EDUCATION

- **PhD Plant Pathology - Nematology**, Cyprus University of Technology 2008-2013.
- **MSc Horticulture**, University of Reading 2006-2007.
- **BSc Agricultural sciences (Plant Protection)**, Aristotelian University of Thessaloniki 2000-2005.
- **High School** Lyceum Kykkou A, Nicosia.

3. PROFESSIONAL - WORK EXPERIENCE

- **Parasitology Special Scientist**, European University Cyprus (September 2016 - until present)
- **Mycology Special Scientist**, European University Cyprus (September 2016 - until present)
- **Zoology and Nematology Special Scientist**, Cyprus University of Technology, (2011- until present).
- **Research Fellow on FP7 EU project, Cyprus University of Technology, Department of Civil Engineering and Geoinformatics** (2013- 2017)
- **Research Fellow in Plant Pathology - Nematology, Cyprus University of Technology, Department of Agricultural Science, Biotechnology and Food Science**, (2007 - until present).
- **Consultant at MCA Agrilab LTD** (2014 - until present).
- **Consultant at Agriplant LTD** 01/02/2016 – 30/06/2016). Agriplant LTD is a producing citrus, pomegranates and organic olive oil.
- **Managing Director at Groexport LTD** (29/09/2014- 30/01/2016). Groexport LTD is a producing and exporting citrus, pomegranates and organic olive oil.
- **External collaborator at Agroblue Hellas LTD (2014)**. Study of the effectiveness of new nematicides produced by the Dupont for the control of Banana nematodes.
- **External collaborator at Pioneer Italy (2014)**. Study the emergence of 28 corn hybrid seeds covert with fungicide and insecticide under Cyprus winter climatic conditions.
- **Agricultural Consultant**, Savvides Omnipatat, (2006- present)
- **Smyrillis Agrochemicals** (machinery) (2007 – present).
- **Potato Inspector**, Nicosia Potato Packing Factory, (2005-2014).

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4. TEACHING EXPERIENCE

- **Parasitology**, European University Cyprus (January 2017 –)
- **Mycology**, European University Cyprus (September 2016 –)
- **Agricultural Zoology and Nematology**, Cyprus University of Technology (2009 -).
- **Weeds Science**, Cyprus University of Technology (2012-2013).
- **Agricultural Machinery and Livestock Equipment**, Cyprus University of Technology (2013).

Laboratory Teaching Assistant at Cyprus University of Technology (2009-2012) in the following courses:

- | | |
|--------------------------|------------------------------|
| ○ Entomology – Acarology | ○ Pest and Diseases |
| ○ Weed Science | ○ Mycology |
| ○ Microbiology | ○ Plant Anatomy & Morphology |
| ○ Phytopathology | ○ Botany |

Undergraduate Student Supervision

- Supervisor of 1 BSc Final Year Project, European University Cyprus (2017-2018).
- Co-supervision of 15 BSc Final Year Projects, Cyprus University of Technology (2009-2015).
- Co-supervision of 1 MSc Final Year Projects, Cyprus University of Technology (2014-2016).

5. FUNDING & RESEARCH GRANTS

- **Researcher, “Life Green Grapes” LIFE16-ENV-IT-000566**
- **Researcher, “Sudden and catastrophic regime shifts in dryland ecosystems” FP7: CASCADE, FP7-ENV-2011-1. Agreem. No.283068 Budget: €5,6 mil.**
- **Researcher, “Exploitation of resistance as a tool for control of potato cyst nematodes in Cyprus”. Research Promotion Foundation – PENEK. Duration: 3 years, Budget: 90.000€.**
- **Researcher, “Sustainable Control of grapevine trunk diseases” COST ACTION: ECOST-STSM-FA1303-070416, Florence, Italy, Mini workshop, Budget: 2.500€.**

6. AWARDS

- **Best student paper presentation at “Advances in Nematology”. Association of Applied Biologists (AAB), London UK (2009).**

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7. PUBLICATIONS

Publications in Scientific Journals

- Papoutsas, C., Kouhartsiouk, D., Themistocleous, K., **Christoforou, M.**, Hadjimitsis, D., "Monitoring of Land Degradation from Overgrazing using Spaceborne Radar and Optical Imagery: case study in Randi Forest, Cyprus", SPIE, Edinburgh International Conference Centre Edinburgh, United Kingdom, September 26 – 29 (2016).
- Kanetis L., Tsimouris D. and **Christoforou M.** 2016. "Characterization of *Rhizoctonia solani* Associated with Black Scurf in Cyprus". Plant Disease. (doi: <http://dx.doi.org/10.1094/PDIS-10-15-1238-RE>).
- Themistocleous K., Agapiou A., Papadavid G., **Christoforou, M.**, Hadjimitsis D. G. 2015. "The use of UAV to document sloping landscapes to produce digital elevation models to examine environmental degradation". Proc. SPIE 9644, Earth Resources and Environmental Remote Sensing/GIS Applications VI, 96440N (20 October 2015); doi: [10.1117/12.2195623](https://doi.org/10.1117/12.2195623)
- Themistocleous K., Papadavid G., **Christoforou, M.**, Agapiou A., Andreou K., Tsaltas D., Hadjimitsis D. G. " Use of remote sensing and UAV for the management of degraded ecosystems: the case study of overgrazing in Randi Forest, Cyprus ", *Proc. SPIE* 9229, Second International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2014), 92291V (August 12, 2014); doi:10.1117/12.2069515; <http://dx.doi.org/10.1117/12.2069515>.
- **Christoforou, M.**, Pantelides I. S., Kanetis L., Ioannou N. and Tsaltas, D. 2014. "Rapid detection and quantification of viable potato cyst nematodes using qPCR in combination with propidium monoazide" Plant Pathology Doi: 10.1111/ppa.12193.
- Papayiannis, L.C., **Christoforou, M.**, Markou, Y.M. and Tsaltas, D. 2013."Molecular typing of cyst-forming nematodes *Globodera pallida* and *G. rostochiensis*, using real-time PCR and evaluation of five methods for template preparation". Journal of Phytopathology. doi: 10.1111/jph.12091.

Monographs (Dissertations & Thesis)

- **Christoforou M., 2013.** The Potato Cyst Nematodes: An holistic investigation for the molecular characterization, quantification and mapping of the plant parasitic nematodes populations, *Globodera rostochiensis* and *G. pallida*, in Cyprus and their integrated management. Cyprus University of Technology, Faculty of Geotechnical Sciences and Environmental Management, Department of Agricultural Sciences, Biotechnology and Food Science. PhD Thesis (pp 240).
- **Christoforou M., 2007.** Evaluation of the tolerance of *Trigonella foenum-graecum* (Fenugreek) to pre-emergence herbicides. The University of Reading, UK, Faculty of Science and Life Sciences Department of Horticulture. MSc Thesis.
- **Christoforou M., 2005.** Environmental research: The effect of Rainbow Bleaching and Dyeing factory wastes on the underground irrigation water. Aristotelian University of Thessaloniki. BSc Thesis.

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Publications in Book Chapters

- **Michalakis Christoforou**, Michael Orford and Dimitris Tsaltas (2017). Molecular Diagnostic Tools for Nematodes, Nematology - Concepts, Diagnosis and Control, Dr. Mohammad Manjur Shah (Ed.), InTech, DOI: 10.5772/intechopen.69075. Available from: <https://www.intechopen.com/books/nematology-concepts-diagnosis-and-control/molecular-diagnostic-tools-for-nematodes>

Articles Local Journals

- **Christoforou M., D. Tsaltas, L. Papayiannis, G. Ioannou, G. Neofytou, P. Fellas, and N. Ioannou, 2011.** Identification and mapping of the potato cyst nematodes in Cyprus. Agrotis Journal. ISSN 0256-8519. Vol: 450.
- **Christoforou M., G. Neofytou, D. Tsaltas, G. Ioannou, P. Fellas, and N. Ioannou, 2012.** Identification and mapping of the potato cyst nematodes in Cyprus. Agrotis Journal. ISSN 0256-8519. Vol: 453.

8. PARTICIPATION IN SCIENTIFIC CONFERENCES, DAY SEMINARS & WORKSHOPS

- Papoutsas, C., Kouhartsiouk, D., Themistocleous, K., **Christoforou, M.**, Hadjimitsis, D., "Monitoring of Land Degradation from Overgrazing using Spaceborne Radar and Optical Imagery: case study in Randi Forest, Cyprus", SPIE, Edinburgh International Conference Centre Edinburgh, United Kingdom, September 26 – 29 (2016).
- **Christoforou M.**, and Tsaltas D. 2016. Monitoring Grapevine Trunk Diseases in Cyprus. 18th Phytopathological Conference, Crete, Greece.
- GTD: Grape vine trunk disease, University of Florence, Department of Agriculture and Environment, 10 days' workshop on symptomatology, epidemiology, identification and control of GTD, 2016.
- 3rd International Conference on remote sensing and geoinformation of environment, Paphos, 2015.
- WOCAT methods for documentation and assessment of Sustainable Land Management (SLM), Bern University, Swiss, 2014.
- Training on Landscape assessments on thresholds dynamics and Landscape and Functional Analysis (LFA), University of Alicante, Spain, 2014.
- 2nd International Conference on remote sensing and geoinformation of environment, Paphos, 2014.
- 1st International Conference on remote sensing and geoinformation of environment, Paphos, 2013.
- One day conference "Advances in Nematology". Association of Applied Biologists (AAB), London, UK (2011).
- 25th Hellenic Horticultural conference (2011).
- One day conference "New technologies for early pest and disease detection". Association of Applied Biologists (AAB), Marston, Lincs, UK (2011).
- 15th Hellenic Phytopathological Conference (2010).
- 13th Congress of the Mediterranean Phytopathological Union. CRA Plant Pathology Research Center. Italy, Rome, June 20-25, (2010).

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- One day conference “Advances in Nematology”. A.A.B., London, UK (2009).
- 14th Hellenic Phytopathological Conference (2010).
- 12th Hellenic Entomological Conference (2007).
- Seminars and training workshops on Sequencing, Real – Time PCR, Primer and Taqman probe design, Cyprus University of Technology (2009-2010).
- Seminars and training workshops on Potato Cyst nematodes (PCNs), Agri-Food and Biosciences Institute, Belfast, UK (2008).
- Seminars and training workshops on Plant Parasitic Nematodes (PPNs), Agri-Food and Biosciences Institute, Belfast, UK (2007).

9. CONFERENCE PAPERS

- Papoutsas, C., Kouhartsiouk, D., Themistocleous, K., **Christoforou, M.**, Hadjimitsis, D., "Monitoring of Land Degradation from Overgrazing using Spaceborne Radar and Optical Imagery: case study in Randi Forest, Cyprus", SPIE, Edinburgh International Conference Centre Edinburgh, United Kingdom, September 26 – 29 (2016).
- K. Themistocleous, G. Papadavid, **M. Christoforou**, A. Agapiou, K. Andreou, D. Tsaltas and D.G. Hadjimitsis. Use of remote sensing and UAV for the management of degraded ecosystems: The case study of overgrazing in Randi Forest, In proceedings of the third International Conference on Remote Sensing and Geoinformation of Environment - Rscy2014, April 10, 2014, Paphos, Cyprus.
- Papadavid, G., K. Themistocleous, **M. Christoforou**, D. Tsaltas, B. Carmen, Hadjimitsis D.G., Use of Remote Sensing for detecting land cover changes sourcing from overgrazing: The case study of Cyprus’ In proceedings of the first International Conference on Remote Sensing and Geoinformation of Environment - Rscy2013, April 8-10, 2013, Paphos, Cyprus.
- **Christoforou, M.**, Pantelides, I.S., Kanetis, L., Tsaltas, D. and Ioannou, N. 2012. Detection and quantification of viable eggs and juveniles of potato cyst nematodes using propidium monoazide. 31st International Symposium of the European Society of Nematologists. Adana, Turkey, P.21.
- **Christoforou M.**, Tsaltas D., Papayiannis L, Ioannou G, Neofytou G, Fellas P., and Ioannou N., 2011. An holistic investigation for the characterization of potato cyst nematode populations in Cyprus and their integrated management. In proceedings of the Congress of the Association of Applied Biologists, Advances in Nematology, London UK, December 13th.
- **Christoforou M.**, Arestopoulou I., Tsaltas D., L., Neofytou G. and Ioannou N, 2011. Evaluation of resistant potato varieties with the use of nematicides for the control of Potato Cyst nematodes in Cyprus. 25th Hellenic Horticultural conference, page 93.
- **Christoforou M.**, Tsaltas D., Neofytou G, Fellas P., and Ioannou N **2011**. Differentiation of Potato Cyst nematode pathotypes in Cyprus. 25th Hellenic Horticultural conference, page 299.

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- **Christoforou M.**, Kanetis, L., Tsaltas, D. and Ioannou, **2011**. Live/dead distinction of potato cyst nematodes: A duplex Real-time PCR based method using propidium monoazide (PMA). Conference “New technologies for early pest and disease detection”. Association of Applied Biologists (AAB), Marston, Lincs, UK (2011).
- **Christoforou M., L. Papayiannis, D. Tsaltas, G. Neophytou and N. Ioannou, 2010**. Identification and quantification of the population of potato cyst nematodes in Cyprus. 14th Panhellenic Phytopathological Conference – Kerkyra – Hellas, October 2010. page 93.
- **Christoforou M., L. Papayiannis, D. Tsaltas, G. Neophytou and N. Ioannou 2008**. Identification of potato cyst nematodes in Cyprus using RT-PCR. 14th Panhellenic Phytopathological Conference – Nafplio – Hellas, October 2008.
- **Christoforou M., D. Tsaltas, L. C. Papayiannis, G. Neophytou, P. Fellas and N. Ioannou, 2010**. Identification and mapping of potato cyst nematodes in Cyprus using multiplex TaqMan[®] Real – Time PCR and Geographical Information Systems. 13th Congress of the Mediterranean Phytopathological Union. CRA Plant Pathology research center. Italy, Rome, June 20-25, page 23.
- **Christoforou M., D. Tsaltas, G. Neophytou, L. Papayiannis, P.Fellas, L. Pittas and N. Ioannou 2009**. Identification and Mapping of Potato Cyst Nematodes in Cyprus using Molecular Tools and Geographical Information Systems. (IPM 2009, Portland - Oregon,USA).
- **Christoforou M., D. Tsaltas, L. Papayiannis, G. Ioannou, G. Neofytou, P. Fellas, and N. Ioannou, 2009**. Identification and Mapping of Potato Cyst Nematodes in Cyprus using Molecular Tools and Geographical Information Systems, In proceedings of the Congress of the Association of Applied Biologists, Advances in Nematology, London UK, December 15th, page 12.

10. RESEARCH EXPERIENCE

- Ecology: Understanding of discontinuous changes in ecosystems.
- Nematodes: *Globodera sp.*, *Meloidogyne sp.*, *Tylenchulus sp.*, *Pratylenchus sp.*
- Fungus: *Aspergillus sp.*, *Phytophthora sp.*, *Rhizoctonia solani*, *Penicillium sp.*, *Alternaria sp.* *GTD*
- Role of beneficial Entomopathogenic Nematodes in plant pest control and plant growth.
- Geographical Information Systems and Remote Sensing in Agriculture and Environment

11. OUTREACH

- Invited speaker at the Cyprus Department of Agriculture, “Distribution and Management of Potato Cyst Nematodes in Cyprus” (September, 2011).
- Invited speaker at the Cyprus Department of Agriculture, “Identification of Potato Cyst Nematodes” (April, 2009).
- Researchers Night 2009. Theme: “Information Technologies”. Activity presented: Precision Agriculture Platforms & Information Dissemination in Agriculture.

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12. PARTICIPATION IN SCIENTIFIC SOCIETIES GOVERNING BOARDS & PROFESSIONAL ASSOCIATIONS

- Member of the COST ACTION FA1303 Management Committee for the Sustainable control of Grapevine Trunk Diseases (2016 -)
- Member of the European Society of Nematologists (2011-)
- Member of the Association of Applied Biologists (2007-)
- Member of the Hellenic Phytopathological Society (2008-)
- Member of the Agronomists Council of Cyprus (2005-)

13. OTHER SKILLS

- **Professional Operator for Agricultural Machinery and Equipment**
- **ARCGIS USER**

14. LANGUAGE

- **Greek (native)**
- **English (excellent)**
- **Spanish (learning)**