

CURRICULUM VITAE

Dr MONTSERRAT ORTONEDA PEDROLA

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RF and Microwave Group.
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EDUCATION:

1998 – 2003. **PhD in Microbiology.**

Faculty of Medicine and Health Sciences. Universitat Rovira i Virgili.
Reus, Spain.

Project: In vitro and in vivo susceptibility of opportunistic fungi.

1998 – 2000. **MSc in Microbiology.**

Faculty of Medicine and Health Sciences. Universitat Rovira i Virgili. Reus, Spain.

1991 – 1997. **BSc in Biological Sciences.** Microbiology.

Faculty of Sciences. Universitat de Girona. Girona, Spain.

RESEARCH AND PROFESSIONAL EXPERIENCE:

Postdoctoral research

January 2010-present. School of the Built Environment. Liverpool John Moores University.

Project: MICROGRASS. Release of sugars from lignocellulosic biomass by microwave plasma for production of bioethanol.

Funding: FP7 Capacities.

April 2009 – December 2009. General Engineering Research Institute.

Liverpool John Moores University, Liverpool, UK.

Project: Applications of Microwave Plasma UV Lamp.

April 2007- April 2009. Liverpool John Moores University, Liverpool, UK.

General Engineering Research Institute and School of Biomolecular Sciences.

Project: Marie Curie MicroGMAP. Multipurpose Tuneable Microwave Plasma Source of Germicidal Modified Atmospheric Packaging for Food Industries. Funding: FP6/Marie Curie Actions

February 2004 - February 2007. Microbiology Dep. University College Cork. Ireland.

Project: Pathogenicity in *Aspergillus fumigatus*. A genomics/proteomics approach. Funding: Health Research Board (Ireland)

PhD research

December 1998- December 2003. Faculty of Medicine and Health Sciences.

Universitat Rovira i Virgili. Reus, Spain. Project: Fongs oportunistes: Avaluació de la patogènia i sensibilitat als antifúngics. "Opportunistic fungi: Evaluation of pathogenicity and antifungal susceptibility"

July – October 1999 (Visiting student). UTHSC at San Antonio. Texas. USA.

Project: Cloning of mating type genes of the opportunistic pathogen *Aspergillus fumigatus*.

April 1998 - August 1998. Microbiology Analyst. Assay Laboratory. Girona, Spain. Public health laboratory. Dep. of health of the Generalitat de Catalunya.

October 1997 - December 1998. Faculty of medicine and health sciences. Universitat Rovira i Virgili. Reus, Spain. Project: Isolation and identification of microscopic fungi from soil.

RELEVANT PUBLICATIONS:

Ortoneda M, O'Keeffe S, Cullen JD, Al-Shamma'a AI, Phipps DA (2008) **Experimental Investigations of the Microwave Plasma UV Lamp for Food Applications.** J Microw Power Electromagn Energy. 42(4):13-23

O'Keeffe S, Ortoneda M, Cullen JD, Shaw A, Fitzpatrick C, Lewis E, Phipps DA and Al-Shamma'a AI. **Development of an Optical Fibre Sensor System for Online Monitoring of Microwave Plasma UV and Ozone Generation System.** IEEE Sensors Conference 2008, Oct. 2008.

O'Keeffe S, Ortoneda M, Cullen JD, Shaw A, Fitzpatrick C, Lewis E, Phipps DA and Al-Shamma'a AI. **Optical fibre sensors for the monitoring of microwave plasma UV lamp and ozone generation system.** SPIE Optical Design and Engineering Conference 2008, Sept. 2008.

O'Keeffe S, Ortoneda M, Cullen JD, Shaw A, Fitzpatrick C, Lewis E, Phipps DA and Al-Shamma'a AI. **Online optical fibre monitoring system for Microwave Plasma UV lamp with food industry applications,** Photon08, Sept. 2008.

Ortoneda M, O'Keeffe S, Cullen JD, Fitzpatrick C, Lewis E, Phipps DA, and Al-Shamma'a AI. **UV-C light and Ozone Utilisation in Food Processing with Online Monitoring Using an Optical Fibre Sensor System.** IMPI Symposium 2008.

Ortoneda M, O'Keeffe S, Cullen JD, Al-Shamma'a AI, Shaw A, Phipps DA, RM Alkhaddar. **Experimental Investigations of the Microwave Plasma UV Lamp for Food Applications.** 41st Annual International Microwave Symposium Proceedings, Vancouver, Canada, August 2007, ISBN 1070-0129, pp: 193-197, 2007.

Ortoneda M, O'Keeffe S, Cullen JD, Shaw A, Phipps DA, Al-Shamma'a AI. **Effect of UV-C microwave-generated light in *E. coli*.** GERI Annual Research Symposium 2007.

Power T, Ortoneda M, Morrissey JP, Dobson AD (2006) **Differential expression of genes involved in iron metabolism in *Aspergillus fumigatus*.** Int Microbiol. 9:281-7.

ADDITIONAL QUALIFICATIONS:

- Obtained in 1999- License for working with animals for research purposes. Decret 214/1997 Accreditation by the Departament d'Agricultura, Ramaderia i Pesca. Generalitat de Catalunya (Decree 214/1997 Department of Agriculture and Farming). Catalunya.
- Obtained in 2006- License for working with animals for research purposes. Cruelty to Animals Act 1876. Department for Health and Children. Ireland.
- **Languages:** Catalan, Spanish and English.