

Ass. Prof. Dr. Maria A Efstratiou

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Professional Profile

Following a career in industry, research establishments and the public sector I joined the Academia in the newly established Department of Marine Sciences, organised from scratch my courses and laboratories and lecture on subjects relevant to general and applied microbiology, with emphasis on pathogens. My research interests include antibiotic resistance, pathogenic yeasts in beach sand, recreation and drinking water management (production, treatment, bottling, distribution) and relevant legislation.

Education and Qualifications

PhD. Relation of *Salmonella* to indicator bacteria and yeasts, University of Patras, Greece

M.Sc. Management Sciences, UMIST, Manchester, UK

Diploma Industrial Microbiology, Herriot-Watt University, Edinburgh, UK

B.Sc. Biology, University of Patras, Greece

Career summary

2009 – ASS. PROFESSOR, Department of Marine Sciences, University of the Aegean, Greece

- Building and conducting presentations, and delivering course content using various teaching strategies to undergraduate and postgraduate students
- Devising and writing teaching material, conducting presentations, gaining interest and attention from students
- Building undergraduate and research laboratories, organising their function, training my assistants (my Department was new, started the year I joined)
- Involved in the administration of the Department, member of University committees
- Organising and Teaching topics include:
 - o Course of Microbial Ecology to undergraduates
 - o Course of Marine Microbiology to undergraduates
 - o Course of Microbiological Quality Control in Food Industries to undergraduates
 - o Course of Biology to undergraduates
 - o Lectures on Waste Water Management to postgraduates (M.Sc.)

- o Lectures on Bathing Water Quality Management to postgraduates (M.Sc.)
- o Laboratory Practicals on Microbiology to undergraduates
- o Laboratory Practical on Bathing Water Quality to postgraduates

1999 – 2009 LECTURER, Dept Marine Sciences, University of the Aegean, Greece

1985 – 1999 FISH BIOLOGIST, Ministry of Agriculture, Greece

1983 – 1985 RESEARCH FELLOW, Hellenic PASTEUR Institute, Greece

1982 – 1983 QUALITY CONTROL MANAGER, CIBA-GEIGY SA Pharmaceuticals, Greece

1978 - 1982 RESEARCH FELLOW, The Athens School of Hygiene, Greece

1977 - 1978 QUALITY CONTROL MANAGER, KNORR SA food company, Greece

1976 – 1977 RESEARCH ASSISTANT, Dept of Management, the Metropolitan University of Manchester, United Kingdom

Undergraduate mentoring: 39 student projects

Graduate dissertations: 13 dissertations

Professional Activities

Editor, Journal of Water and Health, IWA (International Water Association) Publishing in collaboration with WHO (<http://www.iwaponline.com/jwh/>)

Vice-Chairman, the Greek Society for Microbiological Water Quality (2009-2012)

Co-founder – Academic Planning of a distance e-learning Programme on Water Microbiology (<http://www.watermicro-eclass.net>)

Manuscript Reviewer: Water Research, Marine Pollution Bulletin, Science of the Total Environment, Journal of Water and Health, Polish Journal of Microbiology, International Journal of Environmental Research and Public Health, Journal of Food Science, Water

Grant Proposal Reviewer: Expert Evaluator for European Union Research funding (HORIZON 2020, COFASP ERA-NET, FP6 & FP7); Fondation A*MIDEX «Emergence et Innovation» Aix-Marseille University; General Secretariat of Research and Technology (GSRT)-Greece; National Center of Public Administration (NCPA)-Greece

Association Memberships: International Water Association (IWA), Society for Applied Microbiology (UK), Society for General Microbiology (UK), Greek Society for Water Microbiology, Greek Society of Biological Sciences

Professional Bodies: Hellenic Union of Biologists, Geotechnical Chamber of Greece

University Service: member of the University Committee on Educational Programmes and Lifelong Learning Education; member of the University Committee on Bioethics; representative of my Department to the national Academic Recognition Information Center - Greece.

Languages

Greek - Native; English – Fluent; German - Basic

Publications - Books

MAVRIDOU A, VANTARAKIS A, **EFSTRATIOU M.A.**, ARVANITIDOU M, (2014) *Microbiology and Epidemiology of Water*, Brokenhill Publishers, Nicosia (in Greek)

EFSTRATIOU M.A. (2005) *Microbiology in Environmental Education*. In *Environmental Education, Research and Planning*. Ed M.Kaila, Publ. Atrapos, Athens (in Greek)

EFSTRATIOU M.A. (2008) *Good Fish Handling Practices on Board* (manual), Doukas Publishers, Mytilene (in Greek)

Publications - Selected Papers

- Nikolaou,A.,Kostopoulou,M., **Efstratiou,M.A.** et al (2020) Pharma - ceuticals in the sea: environmental processes, detection techniques and management strategies, *Water*, accepted
- Gaitanis,G., Magiatis,P., Mexia,N., Melliou,E., **Efstratiou,M.A.** et al. (2019) Antifungal activity of selected *Malassezia* indolic compounds detected in culture, *Mycoses* <https://doi.org/10.1111/myc.12893>
- **Efstratiou, M.A.**, (2019) Microorganisms in Beach Sand: Health Implications. In: Nriagu, J. (Ed.), *Encyclopedia of Environmental Health*. Elsevier, 4, 385–389.
- **Efstratiou,M.A.**, Boudouni,M. & Kefalas,E. (2018) Spread of antibiotic resistance to aquatic environments: *E.coli* as a case study, *MDPI Proceedings*, 2, 693, 1-7.
- Boudouni,M., **Efstratiou,M.A.** et al (2018) Patterns of antibiotic resistance in enterococci from rural ground water sources. *International Conference on Antimicrobial and Antibacterial Agents*, 19-20 November, Bucharest, Romania
- **Efstratiou,M.A.** et al (2017) Antibiotic resistant *E.coli* in drinking water: resistance to quinolones and second generation cephalopporin, *VII Int. Conference on Environmental , Industrial and Applied Microbiology*, 18-20 October, Madrid, Spain
- Chalatzas,Th.,**Efstratiou,M.A.** et al (2017) Ecosystem service evaluation of streams for nutrient and bacteria purification in a grazed watershed, *Fresenius Environmental Bulletin*, 26, 7849-7859.
- **Efstratiou,M.A.** & Velegraki, A. (2010) Recovery of melanized yeasts from Eastern Mediterranean beach sand associated with the prevailing geochemical and marine flora patterns, *Medical Mycology*, 48, 413-415.
- **Efstratiou,M.A.**, Mavridou,A. & Richardson C. (2009) Prediction of Salmonella in seawater by total and faecal coliforms and enterococci, *Marine Pollution Bulletin*, 58, 201-205.

- **Efstratiou,M.A.** (2009) *Salmonella* from fresh vegetables. Letter to the Editor, *Journal of Food Science*, 74, viii.
- **Efstratiou,M.A.** & Tsirtsis,G. (2009) Do 2006/7/EC European Union Bathing Water Standards exclude the risk of contact with *Salmonella* or *Candida albicans* ? *Marine Pollution Bulletin*, 58, 1039-1044.
- Vantarakis,A., **Efstratiou,M.A.** et al. (2007) Use of an AFLP technique for the discrimination of source (human or animal) of *E. coli*, *International Journal of Antimicrobial Agents*, 29, S338-S339