Marlen I. Vasquez

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CURRENT POSITION

Department of Environmental Science and Limassol, CY **Technology, Cyprus University of Technology** 9/2012-Present Environmental Microbiology and Biotechnology Special Teaching Staff Research interests: Environmental biomonitoring and bioanalytics, Effect-directed analysis, Environmental toxicology, Environmental microbiology, Science communication **EDUCATION** University of Cyprus, Department of Civil Nicosia, CY and Environmental Engineering Ph.D. Environmental Engineering 2012 Dissertation: "Active Pharmaceutical Ingredients in Aqueous Matrices: An Integrated Approach for Assessing Effects" University of Cyprus, Department of Education Nicosia, CY Pre-service training program for secondary school teachers 2009 **National Technical University of Athens,** Athens, GR Interdepartmental M.Sc. Environment and Development 2006 Thesis: "Formal and Non-formal Environmental Education in Cyprus" National Kapodestrian University of Athens, Athens, GR **Department of Biological Sciences** B.Sc. Biology 2002 Thesis: "Study of Ecological and Biochemical Characteristics of Artemia spp. population in Dominican Republic" AWARDS AND OTHER ACHIEVEMENTS Label on "European PhD on Advanced Oxidation Processes" 2014

2003

1998

1998-2002

PROFESSIONAL AFFILIATIONS

Member of the Society of Environmental Toxicology and Chemistry

M.Sc. Scholarship, National and Technical University of Athens

B.Sc. Scholarship, Cyprus Scholarship Foundation (IKYK)

Member of the Society of Toxicology

Member of the International Water Association

Biology contest 1st place award, Laniteio Lyceum

Member of the Federation of European Microbiological Societies (FEMS)

Member of European Federation of Biotechnology

RELATED PROFESSIONAL EXPERIENCE

Department of Environmental Science and Technology, Cyprus University of Technology

Limassol, CY 9/2012-Present

Special Teaching Staff

- Teaching, preparation of teaching material, preparation of laboratories, research, supervision, mentoring and administrative duties
- Member of Departmental Committees "Health and Safety" and "Consumables" and Co-responsibility of "Seminars and Outreach Activities"

NIREAS-International Water Research Center,

Nicosia, CY

University of Cyprus

4/2013-10/2015

Research fellow

 Research on environmental microbiology and water quality issues, co-supervision of M.Sc. students and administrative duties

GAIA- Laboratory of Environmental Engineering,

Nicosia, CY

Department of Civil and Environmental Engineering, University of Cyprus

1/2006-9/2012

Research fellow

 Research on environmental toxicology and microbiology, co-supervision of M.Sc./M.Eng. students, teaching and administrative duties

Medical and Public Health Services, Ministry of Health

Nicosia, CY

Health Inspector

5/2004-6/2009

- Representative of Cyprus in water quality issues, participation in Working Groups of the European Commission (Water for human consumption, Bathing water), ENDWARE (European Network for Drinking Water Regulators) and workshops for swimming pools
- Data collection and analysis. Preparation and submission of reports for the European Commission (triennial report of microbiological and chemical monitoring of water for human consumption, annual report on bathing water)
- Representative of Cyprus in the Working Group of Detergents of the European Commission

Medical Entomology Laboratory, Ministry of Health

Nicosia, CY

Research fellow

5/2004-6/2009

- Research in environmental toxicology of insecticides (organophosphates, carbamates, pyrethroids, insect growth regulators and biological insecticides)
- Mapping and managing important sites for mosquito breeding
- Mosquito population surveillance and identification of species
- Training of applicators of insecticides

Secondary Education, Ministry of Education and Culture

Nicosia, CY

Teacher of Biology

9/2002-2/2004

Teaching and administrative duties

ATEMAR, Ltd Environmental Health Inspector Santo Domingo, DO 2/2002-6/2004

- Environmental Impact Assessment and preparation of reports
- Environmental monitoring of ports
- Mapping of marine habitats

RESEARCH EXPERIENCE

RESEARCH EXIENCE	
Department of Environmental Science and Technology, Cyprus University of Technology	Limassol, CY
Investigator; Project Coordinator: Prof. Gerasimos Lyberatos	10/2017-present
·	889,534 €
Optimization of decentralized domestic wastewater treatment and sanitation via constructed wetlands (DOMUS_CW)	009,334 €
Co-funded by the transnational Cooperation Programme Interreg V-B	
"Balkan-Mediaterranean 2014-2020"	
 Participation in WP3-5 in the activities related to microbial profile 	
analysis, in the ecotoxicological analysis, wastewater analysis,	
compost characteristics and application guide on the adoption of	
best practices based on CW technology	
Participant	11/2016-present
Developing new genetic tools for bioassessment of aquatic ecosystems	
in Europe	
Co-funded by the European Science Foundation, European	
Commission (COST CA15219)	
 Participation in WG3: Field and Lab protocols and WG4: Data 	
analysis and storage	
Investigator; Project Coordinator: Prof. Carlos Afonso	5/2016-present
Bioorganic novel approaches for food processing wastewater treatment	835,355 €
and valorization: lupanine case study (Biorg4WasteWaterVal+) (2	
person-months)	
Co-funded by the Cyprus Research Promotion Foundation through the	
ERA-NET Cofund Water Works 2014	
Cyprus Representative (along with Dr. M. Stavrinides, CUT)	1/2016-present
Establishing genetic control programmes for <i>Aedes</i> invasive	157,000 USD
mosquitoes	
Co-funded by the Joint International Atomic Energy Agency (IAEA)/	
Food and Agriculture Organization of the United Nations (FAO)	
through a Technical Cooperation Project	
Representative of the Early Career Investigators	11/2014-present
New and emerging challenges and opportunities in wastewater reuse	
(NEREUS)	
Co-funded by the European Science Foundation, European	
Commission (COST ES1403)	
 Participation in WG3: Effect-based bioassays required for wastewate 	
Coordinator	9/2013-6/2016
Unravelling bacterial and fungal biodiversity of <i>Posidonia oceanica</i>	4000 €
and their potential biotechnological applications (X-Posidonia)	
In collaboration with the Department of Fisheries and Marine Research	
 Sampling of <i>Posidonia</i> species 	

- Cultivation, isolation and identification of culturable marine Bacteria and Fungi
- Evaluating lignolytic properties and potential for degrading synthetic polymers

Coordinator 4/2014-10/2015

Identifying toxic inputs of the sewerage distribution system:

4500€

Implications on the treatment process of the wastewater treatment plant (WETox)

Co-funded by the Sewerage Board

highest score during evaluation

- Acute toxicity assessment of urban and industrial wastewaters with Vibrio fischeri
- Physicochemical and ecotoxicological correlation

NIREAS-International Water Research Center, University of Cyprus

Nicosia, CY

Teacher/Investigator; Principal Investigator: Dr. Despo Fatta-Kassinos Integrating Water cycle Management: Building Capability, Capacity and Impact in Education and Business EU Tempus Project (I-WEB)

4/2013-10/2015 77,951 €

Co-funded by the European Commission (Tempus IV) (530718-TEMPUS-1-2012-1-UK-TEMPUS-JPCR)

- Preparation of teaching material related to water quality and treatment processes
- Teaching undergraduate, graduate students and academic personnel on water quality issues focusing on environmental toxicology and microbiology

GAIA- Laboratory of Environmental Engineering, University of **Cyprus**

Nicosia, CY

69,936€

Principal Investigator; Project Coordinator: Dr. Despo Fatta-Kassinos Development of novel methods for the toxicity assessment of multicomponent chemical mixtures to humans and the ecosystem (TOMIXX) (24 person-months) The research proposal received the

12/2010-8/2012

Co-funded by the Cyprus Research Promotion Foundation, the Republic of Cyprus and the European Regional Development Fund (PENEK/0609/24)

- Development and application of bioassays for assessment of acute and chronic effects on bacteria, algae, crustaceans and mammalian cells
- Cytotoxic, mutagenic and estrogenic assessment. Implications on gene expression profiling
- Development of factorial designs for multi-factor analysis
- Major participation in the preparation of the research proposal

Investigator; Project Coordinator: Dr. Despo Fatta-Kassinos

5/2010-11/2010

Advanced systems for the enhancement of the environmental performance of wineries in Cyprus (WINEC) (6 person-months) 1,371,357 €

Co-funded by the European Commission (Life+) (LIFE08 ENV/CY/455)

Application of bioassays for assessment of winery wastewater on acute and chronic effects on bacteria, algae and crustaceans

Investigator; Project Coordinator: Dr. Despo Fatta-Kassinos

6/2009-11/2010

Fate, effect and removal potential of xenobiotics present in aqueous

396,372 €

matrices (IX-Aqua) (18 person-months)

Co-funded by the Cyprus Research Promotion Foundation, the Republic of

Cyprus and the European Regional Development Fund

(UPGRADING/DURABLE/0308/07)

 Development and application of advanced biological methods for xenobiotics assessment of chronic effects

Participant; Vice Chair of the Action: Dr. Despo Fatta-Kassinos

2009-2013

Detecting evolutionary hot spots of Antibiotic Resistance in Europe (DARE)

Co-funded by the European Science Foundation, European Commission (COST TD0803)

- Member of the WG2: Prevalence and spread of antibiotics and antibiotic resistant microbes and the WG3: Antibiotics and antibiotic resistance evolution in natural environments
- Organizational and administrative duties

Investigator; Project Coordinator: Dr. Despo Fatta-Kassinos

9/2010

Development of a solar technology for the removal of effluent organic matter from wastewaters (SolTec) (1 person-month)

139,885 €

Co-funded by the Cyprus Research Promotion Foundation, the Republic of

Cyprus and the European Regional Development Fund (AEIFO 0308/BIE/01)

• Evaluation of acute toxicity effects towards *Vibrio fischeri*

Investigator; Project Coordinator: Dr. Despo Fatta-Kassinos

2/2009-4/2009

Degradation of estrogen compounds in waters and wastewaters (urban and hospital wastewaters) by heterogeneous photocatalytic chemical oxidation, (Estrogens) (3 person-months)

49,920 €

Co-funded by the Cyprus Research Promotion Foundation (PROEM/0308/06)

 Development and application of a genetically-modified yeast assay for estrogenicity assessment

Investigator; Project Coordinator: Dr. Despo Fatta-Kassinos

1/2007-6/2009

219,713 €

Development and application of innovative advance oxidation

processes for the removal of active organic compounds in urban

wastewaters and monitoring of toxicity (PHAREM) (12.5 person-

months) The projects' results received the Research Award Nicos

Symeonides 2011 and a follow-up grant of 50,000 ϵ

Co-funded by the Cyprus Research Promotion Foundation (AEI Φ O/0506/16)

- Development and application of a battery assay for the assessment of effects to bacteria, algae and crustaceans
- Involvement in the preparation of the research proposal

Xenobiotics in the Urban Water Cycle

Participant

2005-2009

Co-funded by the European Science Foundation, European Commission (COST636)

Member of the WG3: Impact assessment of xenobiotics

Investigator; Project Coordinator: Dr. Georgios Papadakis, Technical University of Crete

3/2006-10/2006

94,447 €

Life Cycle Assessment (LCA) as a Decision Support Tool (DST) for the eco-production of olive oil (ECOIL) (8 person-months)
Co-funded by the European Commission (Life+) (LIFE04

ENV/GR/000110)

Administrative duties

Medical Entomology Laboratory

Nicosia, CY

Principal Investigator; Project Coordinator: Mr. Andreas Hadjivassilis
 Alternatives methods for mosquito control in Cyprus (KOUNOUPIA)
 (16 person-months) The research proposal received the second highest score during evaluation
 8/2005-11/2008
 279,527 €

Co-funded by the Cyprus Research Promotion Foundation (UGEIA/1104/29)

- Mapping of significant mosquito breeding sites and identification of species
- Evaluation of the insecticides resistance levels of mosquito
- Physicochemical analysis of mosquito breeding sites

TEACHING EXPERIENCE

TEACHING EXPERIENCE	
FORMAL EDUCATION	
Department of Environmental Science and Technology, Cyprus University of Technology	Limassol, CY
 Postgraduate teaching Advanced Ecotoxicology ETP 632, 7 ECTS (half-course lecturer, preparation of study material, examiner, number of participants:14) 	Spring 2015, 2016
Advanced Environmental Microbiology ETP 636, 7 ECTS (lecturer, preparation of syllabus and study material, examiner, total number of participants: 58)	2012-2016
 Advanced Special Issues in Environmental Sciences ETP 635 (lecturer, preparation of two lectures, examiner, number of participants:14) 	Fall 2014
 Advanced Environmental Science and Marine Sedimentology ETP 631, 7 ECTS (lecturer, preparation of syllabus and study material, examiner, total number of participants: 44) 	Spring 2013, 2014, 2015
 Undergraduate teaching Biology for Chemical Engineers CEN 103, 5 ECTS (lecturer, preparation of syllabus and study material, examiner, total number of participants: 33) Laboratory Biology 	2017
 Toxicology II ETP 314, 4 ECTS (lecturer, preparation of syllabus and study material, examiner, total number of participants: 121) 	2013-2017
Laboratory Toxicology II ETP 314.E, 2 ECTS (lecturer, organization of six two-hours laboratory classes, evaluation of laboratory reports, examiner, total number of participants: 121)	2013-2017
 Environmental Microbiology ETP 211, 4 ECTS (lecturer, preparation of syllabus and study material, examiner, total number of participants: 165) 	2012-2017
 Laboratory Environmental Microbiology ETP 211.E, 2 ECTS (lecturer, organization of six two-hours laboratory classes, evaluation of laboratory reports, examiner, total number of participants: 165) 	2012-2017

 Biology-Biochemistry ETP 103, 4 ECTS (lecturer, preparation of syllabus and study material, evaluation of laboratory reports, 	2012-2016
 examiner, total number of participants: 123) Laboratory Biology-Biochemistry ETP 103.E, 2 ECTS (lecturer, organization of six two-hours laboratory classes, evaluation of laboratory reports, examiner, total number of participants: 123) * I was on maternity leave during Fall semester 2013 	2012-2016
GAIA-Laboratory of Environmental Engineering, University of	Nicosia, CY
Cyprus Postgraduate teaching	Spring 2008-2012
 Experimental methods in water and wastewater analysis and treatment CEE 585, 8 ECTS (lecturer, organization of three three- hours laboratory classes, evaluation of laboratory reports, total number of participants: 100) 	1 0
 Undergraduate teaching Wastewater Management CEE 480, 5 ECTS (involvement in the 	2006
 Wastewater Management CEE 480, 5 ECTS (involvement in the preparation of Microbiology lectures and study material) 	2000
Secondary Education, Ministry of Education and Culture	Nicosia, CY
Teacher of BiologyBiology (Gymnasium and Lyceum, total number of participants:	11/2003-5/2004
120)	
Environmental Sciences (Lyceum, number of participants: 30)	
NON-FORMAL EDUCATION/ SCIENCE COMMUNICATION	
Nicosia Café Scientifique	11/2017
Invited speakerTitle of the presentation "Let's talk about (biological) sex)	
MERA-Research Promotion Foundation	CY
Mentor "Identifying sources of plactic mellution in the environment"	5/2017-date
 "Identifying sources of plastic pollution in the environment" Mediterranean Science Festival 	Limassol, CY
Member of the Organisational Team	2015, 2017
Café Scientifique LeaderCurator of Environmental Science	
School Lab Contest	CY
Mentor of 6 secondary school teams	10/2016-3/2017
Youth Board Cyprus	Nicosia, CY
Invited speaker of the series of lectures "Giving the floor to young scientists"	3/2015
Title of presentation "The chemistry between us"	
Stockholm Junior Water Prize Mentor	Limassol, CY

 "Plastics in the marine environment of Cyprus: monitoring and potential bioremediation strategies" (2nd place in the national contact) 	2016
contest) • "Pharmaceuticals in the environment: Is this a problem?" (1 st	2014
place in the national contest) (Co-supervision Dr. Despo Fatta	2014
Kassinos)	
CyCYS – Cyprus Contest for Young Scientists	Nicosia, CY
Mentor	2015
• "School waste: a source for energy production" (Co-supervision	2013
Dr. Ioannis Vyrides) (1 st place in the national contest)	
Famelab Cyprus	
**	Nicosia, CY
 Preliminaries contest presentation "Xenobiotics" 	4/2011
Final contest presentation "Endocrine disruptors"	
Medical and Public Health Services, Ministry of Health	Nicosia, CY
Instructor	5/2005-6/2009
 Training of the personnel on proper handling and use of insecticides 	
 Training of the personnel on legislative issues related to water for hur bathing waters and detergents 	man consumption,
POSTGRADUATE AND UNDERGRADUATE SUPERVISION	
Department of Environmental Science and Technology,	Limassol, CY
Department of Environmental Science and Technology, Cyprus University of Technology	Limassol, CY
Department of Environmental Science and Technology, Cyprus University of Technology M.Sc. supervision	Limassol, CY
Cyprus University of Technology	Limassol, CY 6/2016
Cyprus University of Technology M.Sc. supervision	
Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M.	
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou 	6/2016
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia 	6/2016
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia oceanica in Cyprus and its lignolytic potential. T. Georgiou 	6/2016 12/2015
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia oceanica in Cyprus and its lignolytic potential. T. Georgiou Characterization of microbial community of Posidonia oceanica 	6/2016 12/2015
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia oceanica in Cyprus and its lignolytic potential. T. Georgiou Characterization of microbial community of Posidonia oceanica with potential biotechnological applications. C. Modestou Development and assessment of effects of treated wastewater to a battery assay of different trophic levels. E. Andreou 	6/2016 12/2015 6/2015
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia oceanica in Cyprus and its lignolytic potential. T. Georgiou Characterization of microbial community of Posidonia oceanica with potential biotechnological applications. C. Modestou Development and assessment of effects of treated wastewater to a battery assay of different trophic levels. E. Andreou Isolation, identification and culture optimization of microorganisms 	6/2016 12/2015 6/2015
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia oceanica in Cyprus and its lignolytic potential. T. Georgiou Characterization of microbial community of Posidonia oceanica with potential biotechnological applications. C. Modestou Development and assessment of effects of treated wastewater to a battery assay of different trophic levels. E. Andreou Isolation, identification and culture optimization of microorganisms with enzymes with lignolytic properties. E. Tampouri 	6/2016 12/2015 6/2015 6/2014 6/2014
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia oceanica in Cyprus and its lignolytic potential. T. Georgiou Characterization of microbial community of Posidonia oceanica with potential biotechnological applications. C. Modestou Development and assessment of effects of treated wastewater to a battery assay of different trophic levels. E. Andreou Isolation, identification and culture optimization of microorganisms with enzymes with lignolytic properties. E. Tampouri Development of a Toxicity Identification Evaluation Scheme for the 	6/2016 12/2015 6/2015 6/2014
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia oceanica in Cyprus and its lignolytic potential. T. Georgiou Characterization of microbial community of Posidonia oceanica with potential biotechnological applications. C. Modestou Development and assessment of effects of treated wastewater to a battery assay of different trophic levels. E. Andreou Isolation, identification and culture optimization of microorganisms with enzymes with lignolytic properties. E. Tampouri Development of a Toxicity Identification Evaluation Scheme for the assessment of toxicity of wastewater with the use of acute and 	6/2016 12/2015 6/2015 6/2014 6/2014
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia oceanica in Cyprus and its lignolytic potential. T. Georgiou Characterization of microbial community of Posidonia oceanica with potential biotechnological applications. C. Modestou Development and assessment of effects of treated wastewater to a battery assay of different trophic levels. E. Andreou Isolation, identification and culture optimization of microorganisms with enzymes with lignolytic properties. E. Tampouri Development of a Toxicity Identification Evaluation Scheme for the assessment of toxicity of wastewater with the use of acute and chronic toxicity assays. E. Eleftheriou 	6/2016 12/2015 6/2015 6/2014 6/2014
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia oceanica in Cyprus and its lignolytic potential. T. Georgiou Characterization of microbial community of Posidonia oceanica with potential biotechnological applications. C. Modestou Development and assessment of effects of treated wastewater to a battery assay of different trophic levels. E. Andreou Isolation, identification and culture optimization of microorganisms with enzymes with lignolytic properties. E. Tampouri Development of a Toxicity Identification Evaluation Scheme for the assessment of toxicity of wastewater with the use of acute and chronic toxicity assays. E. Eleftheriou M. Sc. co-supervision 	6/2016 12/2015 6/2015 6/2014 6/2014
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia oceanica in Cyprus and its lignolytic potential. T. Georgiou Characterization of microbial community of Posidonia oceanica with potential biotechnological applications. C. Modestou Development and assessment of effects of treated wastewater to a battery assay of different trophic levels. E. Andreou Isolation, identification and culture optimization of microorganisms with enzymes with lignolytic properties. E. Tampouri Development of a Toxicity Identification Evaluation Scheme for the assessment of toxicity of wastewater with the use of acute and chronic toxicity assays. E. Eleftheriou M. Sc. co-supervision Ecotoxicity of ionic liquids. E. Nicolaou (Principal supervision M. 	6/2016 12/2015 6/2015 6/2014 6/2014
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia oceanica in Cyprus and its lignolytic potential. T. Georgiou Characterization of microbial community of Posidonia oceanica with potential biotechnological applications. C. Modestou Development and assessment of effects of treated wastewater to a battery assay of different trophic levels. E. Andreou Isolation, identification and culture optimization of microorganisms with enzymes with lignolytic properties. E. Tampouri Development of a Toxicity Identification Evaluation Scheme for the assessment of toxicity of wastewater with the use of acute and chronic toxicity assays. E. Eleftheriou M. Sc. co-supervision Ecotoxicity of ionic liquids. E. Nicolaou (Principal supervision M. Koutinas) 	6/2016 12/2015 6/2015 6/2014 6/2014
 Cyprus University of Technology M.Sc. supervision Effects of the wastewater reuse practices to various plant crops. M. Panayiotou Unravelling the marine microbiological biodiversity of Posidonia oceanica in Cyprus and its lignolytic potential. T. Georgiou Characterization of microbial community of Posidonia oceanica with potential biotechnological applications. C. Modestou Development and assessment of effects of treated wastewater to a battery assay of different trophic levels. E. Andreou Isolation, identification and culture optimization of microorganisms with enzymes with lignolytic properties. E. Tampouri Development of a Toxicity Identification Evaluation Scheme for the assessment of toxicity of wastewater with the use of acute and chronic toxicity assays. E. Eleftheriou M. Sc. co-supervision Ecotoxicity of ionic liquids. E. Nicolaou (Principal supervision M. 	6/2016 12/2015 6/2015 6/2014 6/2014

A. Zachariou

Update on the occurrence and risk assessment of active

pharmaceutical ingredients (Literature review). K. Amirides

6/2017

 Evaluating the plastic biodegradation capacity of marine 	6/2017
microorganisms isolated from <i>Posidonia oceanica</i> . E. Aristodemou Isolation and identification of marine hydrocarbon degraders. C.	6/2016
Kaizer Bioaccumulation of metals in the habitat of <i>Posidonia oceanica</i> . M.	6/2016
Papageorgiou Biodegradation of plastics with the use of marine fungi (Literature	6/2015
 review). P. Palates Microplastics and their effects to marine microorganisms (Literature review). C. Hadjigeorgiou 	6/2015
GAIA- Laboratory of Environmental Engineering, University of Cyprus	
 M.Sc./M.Eng. co-supervision with Dr. Despo Fatta-Kassinos Advanced bioassays for evaluating the mixture effects of pharmaceuticals on humans and microorganisms. M. Tarapoulouzi (in collaboration with Dr. Nancy Lambrianides and Dr. Lida Ioannou) 	12/2014
 Exploring the biological potency of wastewater matrices. E. Constantinou 	6/2014
 Development of public communication material using as examples winery wastewater management and the assessment of effects of pharmaceutical residues in the environment. M. Michael (in collaboration with Dr. Lida Ioannou) 	6/2013
 dependent study co-supervision with Dr. Despo Fatta-Kassinos Occurrence, Fate and effects of b-blockers and anti-inflammatory drugs in the environment. E. Eliadou 	6/2012
TRAINING COURSES	
European Molecular Biology Laboratory (EMBL), Germany Dr. Giuseppe D'Auria, Dr. Jaqueline Dreyer- Lamm, Dr. José Eduardo González-Pastor	5/2017
Microbial Metagenomics: A 360° approach (8-days) Experimental design	
 Laboratory work for metagenomic studies: DNA extraction, metagenomic library preparation 	
 Metagenomics work-flow, data analysis and sample characterization Fragsa Group, Sociedad Estatal de Participaciones Industriales, Spain Or. Carlos Tur Lahiguera 	4/2017
Mosquito Detection, Surveillance, Data Recording and Analysis for Area- Wide Integrated Mosquito Management in the European Area (5-days)	

MI Vasquez

 Introduction to database creation for data storage 	
Institute Pasteur	2/2017-3/2017
Dr Anna-Bella Failloux, Dr Vincent Robert	
Massive Open Online Course (MOOC) on Medical Entomology (6-weeks)	
 Insects and arthropods that affect human health (mosquitoes, 	
sandflies, other hematophagous insects and ticks)	
 Vector-borne diseases and risk mapping (arbovirosis and parasitic 	
diseases: malaria, dengue, Zika, Lyme borreliosis, Chagas disease)	
 New methods/ concepts to approach vector-borne diseases 	
 Insect immunity and microbiome 	
 Novel approaches for mosquito control 	
International Atomic Energy Agency, Austria	1/2017
Dr Martin Geiger, Dr Francis Schaffner and Dr Dusan Petric	
Mosquito identification, surveillance and trapping methods for area-wide	
integrated mosquito management in the European area (one week)	
 Biology, morphology, ecology and behaviour of mosquito 	
 Mosquito trapping and surveillance technology 	
 Methods for collection, handling and storage of mosquito samples 	
 Methods of mosquito identification and classification 	
BioDetection Systems B.V., The Netherlands	12/2016
Dr. Harrie Besselink	
ANSWER (ANSWER/H2020-MSCA-ITN-2015/675530 project) Training	
Event on sample preparation and effect-based monitoring in water quality	
assessment (2 days)	
 Solid Phase Extraction methods for estrogenicity bioassaying 	
 ER-CALUX and antibiotic detection 	
Data analysis	
University of Barcelona, Spain	6/2016
Interdisciplinary scientific team from the NEREUS COST Action	
NEREUS "Cristina Becerra-Castro" Training School on "Methods for	
detecting and quantifying antibiotic resistant bacteria and antibiotic	
resistance genes in the environment" (3 days)	
qPCR data analysis	
 Introduction to next-generation sequencing data analysis 	
Biochemical Engineering and Environmental Biotechnology	6/2015
Laboratory, National Technical University of Crete, Greece	
Prof. Nicolaos Kalogerakis	
ERASMUS+ Staff Training Mobility (2-weeks)	
 Culture, Isolation and Pathway investigation of hydrocarbon and 	
synthetic polymers degraders	
University of Sheffield, UK	5/2015
Participation in the workshop entitled "Open Access to Research Data" (2 days	s)
 Introduction to open access to research data 	
 How to develop data management plans 	
Biochemical Engineering and Environmental Biotechnology	6/2014
Laboratory, National Technical University of Crete, Greece	

Prof. Nicolaos Kalogerakis ERASMUS+ Staff Training Mobility (2-weeks) PCR-DGGE profiling of marine bacteria ZMF Medical Research Center, University of Heidelberg, Germany 7/2012 Prof. Norbert Gretz. Microarray techniques and data analysis (2-weeks) Center for Integrative Bioinformatics Vienna, 2/2012 Vienna University and Medical University, Austria Prof. Arndt von Haeseler Training organized within the COST Action Dare (one week) Basic principles in bioinformatics Section for Applied Environmental Research, 6/2012-9/2012 Medical Center of Freiburg, Germany Prof. Klaus Kümmerer • Cell-line culturing and maintenance (4 months) Genotoxicity assessment by the micronucleus assay ■ Bacteria (*Pseudomonas putida* and *Vibrio fischeri*) cultivation Acute and chronic toxicity assessment with bacteria Close Bottle Test application for assessment of biodegradation British Council, Chelteham Festivals and European Office Cyprus, 2/2011 Cyprus Malcom Love Science communication (3-day workshop) **Environmental Hygene Division, University of Naples Federico II, Italy** 10/2007 Prof. Marco Guida and Prof. Sureyya Meriç Cultivation and maintenance of microalgae and crustaceans (2 Implementation of acute and chronic toxicity tests with Pseudokirchneriella subcapitata, Daphnia magna and Artemia salina Institute for the Environment, University of Brunel, UK 2/2006 Prof. John Sumpter and Dr. Edwin Routledge Growth of genetically-modified Saccharomyces cerevisiae and implementation of yeast estrogen assay (YES) and yeast androgen assay (YAS) (2 weeks) Medical Entomology Laboratory, Ministry of Health, Cyprus 6/2005 Dr. Margaret Wirth (University of Riverside, California) and Dr. Anna Samanidou (National School of Public Health) Identification of mosquito species Insecticide resistance evaluation to *Culex spp*.

LANGUAGES

Spanish, Greek and English (excellent)

French (very good)

Turkish and German (basic)

COMPUTER SKILLS/OTHERS

- Microsoft Office tools (excellent)
- Statistical software: ToxStat, SPSS, NCSS, CompuSyn, MINITAB (very good)
- Synchronous web-based education platform: Piazza (very good)
- Website development software: Wordpress, Moodle, Dreamweaver (basic)
- Network engineering (basic)
- Geographic Information System software: ArcGIS, ERMapper (basic)
- Document preparation system: LaTeX (basic)
- LINUX environments and bioinformatics software (basic)
- Graphic design applications: PhotoShop (basic)
- Scuba Diver (Open water certified)

EXTERNAL REVIEWER OF RESEARCH PROPOSALS

H2020-MSCA-IF-2016: Marie Skłodowska-Curie Individual Fellowships
(Independent Evaluation Report of 8 proposals and Consesus Report of 2 proposals)

H2020-MSCA-IF-2017: Marie Skłodowska-Curie Individual Fellowships
(Independent Evaluation Report of 5 proposals)

JOURNAL REVIEWER

Chemical Engineering Journal

Chemosphere

Current Opinion in Environmental Science and Health

Environment International

Frontiers in Chemistry

Frontiers in Marine Science

Journal of Environmental Chemical Engineering

Journal of Hazardous Materials

Science of the Total Environment

PLOS One

Water Research

LIST OF REFEREED JOURNAL PUBLICATIONS

- 17. Parmaki S, Vyrides I, **Vasquez MI**, Hartman V, Zachariou E, Afonso CAM, Drouza C, Koutinas K (2018) Bioconversion of alkaloids to high-value chemicals: Comparative analysis of newly isolated lupanine degrading strains. *Chemosphere* 193:50-59.
- 16. Patsalou M, Menikea KK, Makri E, **Vasquez MI**, Drouza C, Koutinas M (2017) Development of a citrus peel-based biorefinery strategy for the production of succinic acid. *Journal of Cleaner Production* 166:706-716.
- 15. **Vasquez MI**, Tarapoulouzi M, Lambrianides N, Hapeshi E, Felekkis K, Saile M, Carsten Sticht C, Gretz N, Fatta-Kassinos D (2016) Assessing the potential of pharmaceuticals and their transformation products to cause mutagenic effects. Implications in the gene expression profiling. *Environmental Toxicology and Chemistry* 35:2753-2764.
- 14. Leese FGV, Altermatt F, Bouchez A, Ekrem T, Hering D, Szabolcs Csabai Z, Padisák J et al. DNAqua-Net: Developing new genetic tools for bioassessment and monitoring of aquatic ecosystems in Europe (2016). *Research Ideas and Outcomes* 2: e11321.

- 13. Pantelidou NA, Theologides CP, Olympiou GG, Savva PG, **Vasquez MI** & Costa CN (2014) Catalytic removal of pharmaceutical compounds in water medium under an H₂ stream over various metal-supported catalysts: A promising process. *Desalination and Water Treatment* 53: 3363–3370
- 12. **Vasquez MI**, Lambrianides A, Schneider M, Kümmerer K & Fatta-Kassinos D (2014) Environmental side effects of pharmaceutical cocktails: What we know and what we should know. *Journal of Hazardous Materials* 279: 169–189.
- 11. **Vasquez MI** & Fatta-Kassinos D (2013) Is the evaluation of "traditional" physicochemical parameters sufficient to explain the potential toxicity of the treated wastewater at sewage treatment plants? *Environmental Science and Pollution Research* 20: 3516–3528.
- 10. **Vasquez MI**, Hapeshi E, Fatta-Kassinos D & Kümmerer K (2012) Biodegradation potential of ofloxacin and its resulting transformation products during photolytic and photocatalytic treatment. *Environmental Science and Pollution Research* 20:1302-1309.
- 9. **Vasquez MI**, Garcia-Käufer M, Hapeshi E, Menz J, Kostarelos K, Fatta-Kassinos D & Kümmerer K (2012) Chronic ecotoxic effects to *Pseudomonas putida* and *Vibrio fischeri*, and cytostatic and genotoxic effects to the hepatoma cell line (HepG2) of ofloxacin photo(cata)lytically treated solutions. *Science of the Total Environment* 450-451: 356–365.
- 8. Fatta-Kassinos D, **Vasquez MI** & Kümmerer K (2011) Transformation products of pharmaceuticals in surface waters and wastewater formed during photolysis and advanced oxidation processes Degradation, elucidation of byproducts and assessment of their biological potency. *Chemosphere* 85: 693–709.
- 7. Ioannou LA, Hapeshi E, **Vasquez MI**, Mantzavinos D & Fatta-Kassinos D (2011) Solar/TiO₂ photocatalytic decomposition of β-blockers atenolol and propranolol in water and wastewater. *Solar Energy* 85: 1915–1926.
- 6. Fatta-Kassinos D, Kalavrouziotis IK, Koukoulakis PH & Vasquez MI (2011) The risks associated with wastewater reuse and xenobiotics in the agroecological environment. Science of the Total Environment 409: 3555–3563.

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- 5. Hapeshi E, Achilleos A, **Vasquez MI**, Michael C, Xekoukoulotakis NP, Mantzavinos D & Kassinos D (2010) Drugs degrading photocatalytically: Kinetics and mechanisms of ofloxacin and atenolol removal on titania suspensions. *Water Research* 44: 1737–1746.
- 4. **Vasquez MI**, Violaris M, Hadjivassilis A & Wirth MC (2009) Susceptibility of *Culex pipiens* (*Diptera: Culicidae*) field populations in Cyprus to conventional organic insecticides, *Bacillus thuringiensis subsp. israelensis*, and methoprene. *Journal of Medical Entomology* 46: 881–887.
- 3. Violaris M, **Vasquez MI**, Samanidou A, Wirth MC & Hadjivassilis A (2009) The mosquito fauna of the Republic of Cyprus: a revised list. *Journal of American Mosquito Control Association* 25: 199–202.
- Fatta D, Michael C, Canna-Michaelidou S, Christodoulidou M, Kythreotou N & Vasquez MI (2007) Pesticides, volatile and semivolatile organic compounds in the inland surface waters of Cyprus. *Desalination* 215: 223–236
- 1. Fatta D, Canna-Michaelidou S, Michael C, Demetriou Georgiou E, Christodoulidou M, Achilleos A. & **Vasquez MI** (2007) Organochlorine and organophosphoric insecticides,

herbicides and heavy metals residue in industrial wastewaters in Cyprus. *Journal of Hazardous Materials* 145: 169–179.

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- 7. **Vasquez MI**, Michael-Kordatou I, Kümmerer K, Fatta-Kassinos D (2015) Bioassays currently available for evaluating the biological potency of pharmaceuticals in treated wastewater. *Wastewater Reuse and Current Challenges. Part of the series The Handbook of Environmental Chemistry* (Fatta-Kassinos D, Dionysiou DD & Kümmerer K, eds), pp. 49-80. Springer Publishing, USA.
- 6. Michael I, Hapeshi E, **Vasquez MI**, Toumazis T, Fatta-Kassinos D (2014) Urban wastewater treatment processes. *Integrated Water Cycle Management in Kazakhstan* (Meyer BC & Lundy L, eds), pp. 113-118. Al-Farabi Kazakh National University, Publishing House, Almaty.
- 5. **Vasquez MI**, Michael I, Hapeshi E, Toumazis T, Fatta-Kassinos D (2014) Drinking water purification technologies and monitoring of water quality. *Integrated Water Cycle Management in Kazakhstan* (Meyer BC & Lundy L, eds), pp. 118-123. Al-Farabi Kazakh National University, Publishing House, Almaty.
- 4. Hapeshi E, Michael I, **Vasquez MI** Toumazis T, Fatta-Kassinos D (2014) Sources and occurrence of pharmaceutical residues in the aquatic environment, *Integrated Water Cycle Management in Kazakhstan* (Meyer BC & Lundy L, eds), pp. 124-128. Al-Farabi Kazakh National University, Publishing House, Almaty.
- 3. Michael I, Hapeshi E, **Vasquez MI**, Toumazis T, Fatta-Kassinos D (2014) Removal of pharmaceuticals from aqueous matrices by biological and advanced chemical oxidation processes. *Integrated Water Cycle Management in Kazakhstan* (Meyer BC & Lundy L, eds), pp. 129-133. Al-Farabi Kazakh National University, Publishing House, Almaty.
- 2. Michael I, Hapeshi E, **Vasquez MI**, Toumazis T, Fatta-Kassinos D (2014) Potential implications related with wastewater reuse in agriculture. *Integrated Water Cycle Management in Kazakhstan* (Meyer BC & Lundy L, eds), pp. 133-136. Al-Farabi Kazakh National University, Publishing House, Almaty.
- 1. Michael I, **Vasquez MI**, Hapeshi E, Haddad T, Baginska E, Kümmerer K, Fatta-Kassinos D (2014) Metabolites and transformation products of pharmaceuticals in the aquatic environment as contaminants of emerging concern. *Transformation products of emerging contaminants in the environment: analysis, processes, occurrence, effects and risks*, Vol. 1 (Nollet E & Lambropoulou D, eds), pp. 425–469. John Wiley & Sons, United Kingdom.

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- 27. **Vasquez MI**, Current challenges and opportunities in effect-based bioassays required for wastewater reuse schemes, invited oral presentation, Young Water Professional's Day, 10th Micropol & Ecohazard Conference of the International Water Association, Vienna, Austria, 17-20 September 2017.
- 26. Modestou C, Daskalakis E, **Vasquez MI**, Ecotoxicological modelling within a sewage distribution system for a cost-efficient prioritization of upgrading treatment processes, poster presentation, 10th Micropol & Ecohazard Conference of the International Water Association, Vienna, Austria, 17-20 September 2017.

- 25. Papatheodoulou A, Tziortzis I, Dörflinger G, Demetriou C, **Vasquez MI**, Rivers biomonitoring in Cyprus: past, present, future, Poster presentation, *DNAqua-Net kick-off conference*, Essen, Germany, 7-8 March 2017.
- 24. Stavrinides M, **Vasquez MI**, Establishment and invasion potential of *Aedes* mosquitoes in Cyprus, Oral presentation, *Ist Meeting of the FAO/IAEA Technical Cooperation Project RER5022 Establishing Genetic Control Programmes for Aedes Invasive Mosquitoes*, Vienna, Austria, 22-26 August 2016.
- 23. Patsalou M, Pateraki C, **Vasquez MI**, Drouza C, Koutinas M, Bioprocess development for the production of succinic acid from orange peel waste, Oral presentation, 4th International Conference on Sustainable Solid Waste Management, Limassol, Cyprus, 23-25 June 2016.
- 22. Modestou C, Kaizer C, Nikolopoulou M, **Vasquez MI**, Kalogerakis N, Unravelling the biodegradation potential of PAHs of a marine microbial consortium isolated from *Posidonia oceanica* of Cyprus, Oral presentation, *10th International Society for Environmental Biotechnology Conference*, Barcelona, Spain, 1-3 June 2016.
- 21. Koutinas M, Pashali P, Loizou E, Nicolaou E, **Vasquez MI**, Vyrides I, Contaminants on the Horizon: Bioprocess development for the treatment of ionic liquid-polluted industrial effluents, Invited oral presentation M. Koutinas, *New Horizons in Biotechnology (NHBT 2015)*, Trivandrum, India, 22-25 November 2015.
- 20. **Vasquez MI**, Tarapoulouzi M, Michael C, Fatta- Kassinos D, Investigating acute and chronic mixture effects of pharmaceuticals towards *Daphnia magna*, Poster presentation, 15th EuCheMS International Conference on Chemistry and the Environment, Leipzig, Germany, 20-24 September 2015.
- Modestou C, Georgiou T, Pantelides I, Tsolakidou MD, Tampouri E, Markou M, Antoniadis K, Palates P, Vasquez MI, Culturable bacterial and fungal communities of the seagrass *Posidonia oceanica* of Cyprus as potential laccases producers, Poster presentation, 6th European Bioremediation Conference (EBC-VI), Chania, Greece, 29 June-2 July 2015.
- 18. **Vasquez MI**, Tarapoulouzi M, Lambrianides N, Felekkis K, Sticht C, Saile M, Gretz N, Fatta-Kassinos D, Assessing the cytotoxic, estrogenic and mutagenic effects of pharmaceutical residues and their photo-transformation products in water, Oral presentation, *SETAC Europe 25th Annual meeting*, Barcelona, Spain, 3-7 May 2015.
- 17. Tarapoulouzi M, **Vasquez MI**, Lambrianides N, Felekkis K, Sticht C, Saile M, Gretz N, Fatta-Kassinos D, Assessing the cytotoxic, estrogenic and mutagenic effects of pharmaceutical residues and their photo-transformation products in water, Poster presentation, *Workshop Novel tools and methods for the screening of chemicals for developmental neurotoxicity*, DENAMIC, Amsterdam, The Netherlands, 10-11 March 2014.
- 16. Hadjikoumis A and **Vasquez MI**, Urban green spaces, flora and fauna on the coast line. Sustainability issues, Oral presentation, *Sustainable Design in Coastal Areas (SUDESCO)*, Limassol, Cyprus, 22 July-3 August 2013.
- 15. **Vasquez MI**, Tarapoulouzi M, Hapeshi E, Papaphilippou P, Lambrianides N, Michael C, Lambropoulou D, Fatta-Kassinos D, Ecotoxic and mutagenic effects of photolytic transformation products of three pharmaceuticals and their mixtures: An experimental design approach, Oral presentation, *14th EuCheMS International Conference on Chemistry and the Environment*, Barcelona, Spain, 25-28 June 2013.

- 14. **Vasquez MI** and Fatta-Kassinos D, Ecotoxicity assessment of wastewater containing mixtures of active pharmaceutical ingredients, Oral presentation, *Workshop: Wastewater reuse applications and contaminants of emerging concern.* Norman and Cost DARE, Paphos, Cyprus, 13-14 September 2012.
- 13. **Vasquez MI,** Garcia-Käufer M, Hapeshi E, Kümmerer K, Fatta-Kassinos D, Investigating the genotoxicity effects of pharmaceutical photo-transformation products, Poster presentation, 6th Society of Environmental Toxicology and Chemistry World Congress, Berlin, Germany, 20-24 May 2012.
- 12. **Vasquez MI,** Garcia-Käufer M, Hapeshi E, Menz J, Fatta-Kassinos D, Kümmerer K, Transformation products of pharmaceuticals as contaminants of emerging concern in the urban water cycle, Oral presentation, *Workshop: Sampling and Analysis of Emerging Contaminants in the Aquatic Environment: Current and future challenges*. Norman, Oslo, Norway, 2-3 March 2012.
- 11. **Vasquez MI**, Hapeshi E, Menz J, Kümmerer K, Fatta-Kassinos D, Active pharmaceutical ingredients as multi-component matrices: focus on effects of mixtures and phototransformation products, Oral presentation, *15th International Symposium on Toxicity Assessment*, Hong Kong, China, 3-8 July 2011.
- 10. Ioannou LA, Hapeshi E, **Vasquez MI**, Mantzavinos D, Fatta-Kassinos D, Solar photocatalytic decomposition of the two b-blockers atenolol and propranolol in water and wastewater, Oral presentation, *International Conference on Energy, Water and Environment*, Amman, Jordan, 12-15 December 2010.
- 9. **Vasquez MI** and Fatta-Kassinos D, Impact effects of treated wastewaters focusing on present active pharmaceutical ingredients, Oral presentation, 20th SETAC Europe Annual Meeting, Seville, Spain, 23-27 May 2010.
- 8. Fatta-Kassinos D, Guida M, **Vasquez MI**, Meriç S, Risk assessment of mixtures of nine pharmaceuticals using multispecies biotests, Oral presentation *Workshop: Mixtures and metabolites of chemicals of emerging concern*. Norman, Amsterdam, the Netherlands, 18-19 November 2009.
- 7. **Vasquez MI**, Violaris M, Hadjivassilis A, Wirth MC, Tests for the field evaluation of *Bti*, Pyriproxyfen and S Methoprene in Cyprus, Poster presentation, *International Conference on Urban Pests*, Budapest, Hungary, 13-16 July 2008.
- 6. Achilleos A, **Vasquez MI**, Hapeshi E, Michael C, Monou M, Meriç S, Fatta-Kassinos D, Predicted environmental concentrations of selected API active ingredients in urban wastewaters in Cyprus, Poster presentation, *International Conference on the Protection and Restoration of the Environment IX*, Kefalonia, Greece, 29 June 3 July 2008.
- 5. **Vasquez MI**, Violaris M, Andreou M, Hadjivassilis A, Wirth MC, Monitoring resistance in mosquito population *Culex pipiens* Complex (*Diptera: Culicidae*) in Cyprus and the use of Bti and S methoprene as alternative methods for control, Oral presentation, *12th Panhellenic Entomological Conference*, Larnaka, Cyprus, 13-16 November 2007.
- 4. Violaris M, **Vasquez MI**, Andreou M, Hadjivassilis, A, Wirth MC, Monitoring mosquito population (*Diptera Culicidae*) in Cyprus, Oral presentation, *12th Pan-hellenic Entomological Conference*, Larnaka, Cyprus, 13-16 November 2007.
- 3. Violaris M, **Vasquez MI**, Andreou M, Hadjivassilis A, Wirth MC, Georgallas G, Mosquito population monitoring in Cyprus and bioassays with *Culex pipiens complex* with *Bti* and S Methoprene as alternative methods for mosquito control, Poster presentation, *European Mosquito Control Association*, Prague, Czech Republic, 9-15 September 2007.

- 2. Achilleos A, **Vasquez MI**, Michael C, Averkiou M, Fatta-Kassinos D, Determination of selected APIs in wastewater effluents in Cyprus and application of Advanced Oxidation Processes for their degradation. Poster presentation, *Micropol and Ecohazard Conference*, Frankfurt, Germany, 17-20 June 2007.
- 1. Hadjivassilis A and **Vasquez MI**, Mosquitoes in Cyprus. Yesterday, today and tomorrow, Poster presentation, *International Conference of the Society of Vector Ecology (SOVE)*, Serres, Greece, 10-14 April 2006.