

H2020-MSCA-ITN-2015/675530



# ANSWER Summer School Programme

13 - 23 June 2016, Barcelona, Spain

CSIC, Jordi Girona 18-26, 08034 Barcelona

ORGANIZER:  **NIREAS**  
International Water Research Center  University of Cyprus

HOST ORGANIZATION:  **CSIC**  
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

Time	Monday 13/6	Tuesday 14/6	Wednesday 15/6	Thursday 16/6	Friday 17/6
8:30-9:00	<b>Registration</b> at Pasqual Vila Institute, Main Lobby	-	ESRs meeting: Selection of 2 ESRs as representatives in the Supervisory Board	-	-
9:00-10:00	An overview on the wastewater reuse practices and current challenges <b>D. Fatta-Kassinos, Nireas-IWRC, UCY, CY</b>	Dynamics of antibiotic resistance in crop production systems* <b>E. Topp, AAF Canada</b>	Health aspects considerations in Israeli regulation updating, regarding treated effluents reuse <b>D. Weinberg, Ministry of Health, Israel</b>	Prioritisation of contaminants under the Water Framework Directive <b>V. Dulio, NORMAN Association</b>	Risk assessment of contaminants of emerging concern in the urban water cycle <b>J. Slobodnik, EI, Slovakia</b>
10:00-11:00	Presentation of the ANSWER project and other related ongoing projects <b>D. Fatta-Kassinos, Nireas-IWRC, UCY, CY</b> Discussion	Risk assessment of horizontal ARG transfer in soil and sludge environments <b>M. Woegerbauer, AGES, Austria</b>	The Braunschweig model, a water-nutrient-energy cycle; - wastewater irrigation in agriculture - <b>B. Teiser, AVBS, Germany</b>	A European perspective on Data Collection and Risk Assessment in order to address the spread of antimicrobial resistance through the food chain* <b>E. Liebana, EFSA, Italy</b>	Computer tools for identification of compounds using LCMS <b>M. Raab, HighChem, Slovakia</b>
11:00-12:00	Wastewater reuse in Singapore: Technology overview and challenges <b>T.T. Lim, Nanyang Technical University, Singapore</b>	TPs of contaminants of emerging concern in the environment: analysis, processes, occurrence, effects and risks <b>D. Lambropoulou, AUTH, Greece</b>	Water systems management under dynamic stress - fundamental considerations for wastewater reuse <b>H. Kroiss, IWA, Austria</b>	Advanced wastewater treatment by ozonation and activated carbon <b>N. Kreuzinger, TU-Wien, Austria</b>	Molecular analysis and fate of ARG in surface water and sediment samples <b>L. Hornstra, KWR, The Netherlands</b>
12:00-13:30	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>
13:30-14:30	Oxidative treatment of municipal wastewater effluent for micropollutant elimination and disinfection: options and limitations <b>Y. Lee, Gwangju Inst. of Science &amp; Technology, South Korea</b>	Introduction to genomic/ bioinformatic tools applied in environmental microbiology <b>E. Cytryn, ARO, Israel</b>	<b>Mass spectrometry guided tour at CSIC</b> <b>Meeting of Advisory/Supervisory Boards</b>	Design and scale-up of advanced oxidation treatment processes <b>S. Castro-Silva, Adventech, Portugal</b>	Cell-based bioassays for environmental monitoring: possibilities and obstacles <b>H. Besselink, BDS, The Netherlands</b>
14:30-15:30	Bacterial diversity and eco-physiology in water and soil <b>C. Manaia, UCP, Portugal</b>	Integrated approach for the analysis of the antibiotic resistance in the environment <b>Th. Berendonk, TUD, Dresden</b>	<b>Visit at the Cosmo Caixa Museum</b> <b>Meeting of Advisory/Supervisory Boards</b>	The Windhoek/Namibia multiple barrier approach for direct potable reuse <b>J. Lahnsteiner, WABAG, Austria</b>	Molecular profiling of soils with microbial populations <b>E. Jurkevitch, HUJI, Israel</b>
15:30-16:30	Biotic/abiotic factors stimulating horizontal gene transfer in aquatic microbiomes <b>T. Schwartz, KIT, Germany</b>	<b>Meeting between ESRs and academic supervisors and partners</b>	<b>Meeting of Advisory/Supervisory Boards</b>	Presentation and discussion of PCDDPs <b>N. Kreuzinger, TU-Wien, Austria</b> <b>L. Hornstra, KWR, The Netherlands</b>	Urban wastewater disinfection by advanced oxidation processes: ARB inactivation-effect on antibiotic resistance <b>L. Rizzo, UNISA, Italy</b>
16:30-17:30	-	-	-	Human health risk assessment of environmental contaminants: the past and the new challenges <b>E. Di Consiglio, ISS, Italy</b>	Dissemination/Outreach Activities of the ANSWER project <b>T. Toumazi, Nireas-IWRC, UCY, Cyprus</b>
20:30-22:30	-	-	<b>DINNER</b> <b>La Camarga, Aribau str. No 117</b>	-	-



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Time	Monday 20/6	Tuesday 21/6	Wednesday 22/6	Thursday 23/6
9:00-10:00	<b>ESRs DAY</b> - Presentation of projects - Brainstorming - Identification of synergies among projects  <b>Coordinated by</b> <b>I. Michael-Kordatou,</b> <b>Nireas-IWRC, UCY, Cyprus</b>	Fate of microcontaminants in crops: uptake, metabolization, effects on cellular growth*  <b>J. Bayona, CSIC, Spain</b>	Natural treatment systems*  <b>V. Matamoros, CSIC, Spain</b>	Modeling the fate of contaminants in soil. Basis for modelling of the process*  <b>J. Comas, TU Catalonia, Spain</b>
10:00-11:00		Nucleic acid quantification methods to assess ARG/strains in soils, sludge, water samples*  <b>B. Piña, CSIC, Spain</b>	<b>Study tour to the Can Cabanyes-Besós river wetlands</b>	Ethics in research**  <b>P. Puigdomenech, CSIC, Spain</b>
11:00-12:00		TPs through high resolution mass spectrometry  <b>S. Pérez, CSIC, Spain</b>		
12:00-13:30	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>
13:30-14:30	<b>ESRs DAY</b> - Presentation of projects - Brainstorming - Identification of synergies among projects  <b>Coordinated by</b> <b>I. Michael-Kordatou,</b> <b>Nireas-IWRC, UCY, Cyprus</b>	<b>Study tour to the Depurbaix WWTP</b>	The role of endophytic bacteria in phytoremediation of organic pollutants*  <b>Andrés Sauvêtre, EGEN, Helmholtz-Zentrum Munich, Germany</b>	Biosecurity issues in the ANSWER project**  <b>Efrén Riu, Autonomous University of Barcelona, Spain</b>
14:30-15:30			Molecular modeling of organic microcontaminants*  <b>C. Hurtado, CSIC, Spain</b>	<b>Roundtable discussion &amp; Summer School Closing</b>
15:30-16:30		<b>Study tour to the Mesocosmos (Agropolis, Viladecans)</b>	<b>Visit to the Barcelona Supercomputing Center</b>	

\* **Specialized Scientific Course1: Mechanisms and processes involved in crops uptake.**

\*\* **Complementary/soft skills training.**

**Organizations involved:** **AAF Canada:** Agriculture and Agri-Food Canada; **Adventech:** Adventech - Advanced Environmental Technologies LDA; **AGES:** Austrian Agency for Health and Food Safety; **ARO:** The Ariculture Research Organization of Israel - The Volcani Centre; **AUTH:** Aristotle University of Thessaloniki; **AVBS:** Abwasserverband Braunschweig; **BDS:** BioDetection Systems by; **CSIC:** Agencia Estatal Consejo Superior de Investigaciones Científicas; **EFSA:** European Food Safety Authority; **EI:** Environmental Institute; **HUJI:** The Hebrew University of Jerusalem; **ISS:** Istituto Superiore di Sanità; **IWA:** International Water Association; **KIT:** Karlsruhe Institute of Technology; **KWR:** KWR Water B.V.; **Nireas-IWRC, UCY:** Nireas International Water Research Center, University of Cyprus; **TUD:** Technische Universität Dresden; **TU-Wien:** Technische Universität Wien; **UCP:** Universidade Católica Portuguesa; **UNISA:** Università degli Studi di Salerno; **US EPA:** United States Environmental Protection Agency; **WABAG:** VA TECH WABAG GmbH.

