

Training School Schedule

Monday June 13th, 2016

Time	Description
9:00-10:00	An overview on the wastewater reuse practices and current challenges D. Fatta-Kassinis , Nireas International Water Research Center, University of Cyprus, Cyprus
10:00-11:00	Presentation of the NEREUS COST Action & other related ongoing projects D. Fatta-Kassinis , Nireas International Water Research Center, University of Cyprus, Cyprus
11:00-12:00	Wastewater reuse in Singapore: Technology overview and challenges T.T. Lim , Nanyang Technical University, Singapore
12:00-13:30	LUNCH
13:30-14:30	Oxidative treatment of municipal wastewater effluent for micropollutant elimination and disinfection: options and limitations Y. Lee , Gwangju Inst. of Science & Technology, South Korea
14:30-15:30	Bacterial diversity and eco-physiology in water and soil C. Manaia , Universidade Catolica Portuguesa, Portugal
15:30-16:30	Biotic/abiotic factors stimulating horizontal gene transfer in aquatic microbiomes T. Schwartz , Karlsruhe Institute of Technology, Germany

Tuesday, June 14th, 2016

Time	Description
9:00-10:30	Welcome and introduction to antibiotic resistance in wastewater and agro-environments Celia Manaia , Universidade Catolica Portuguesa, Portugal Benjamín Piña , Consejo Superior de Investigaciones Científicas, Spain Thomas Berendonk , Technische Universität Dresden, Germany Eddie Cytryn , Agricultural Research Organization, Volcani Center, Israel
10:30-11:00	Coffee Break
11:00-12:30	Culture based techniques Celia Mania , Universidade Catolica Portuguesa, Portugal
12:30-13:30	LUNCH
13:30-15:00	Introduction to molecular techniques-emphasis on PCR and qPCR Benjamín Piña , Consejo Superior de Investigaciones Científicas, Spain
15:00-15:30	Coffee Break

15:30-16:30	qPCR- from primer design to data analysis Thomas Schwartz , Karlsruhe Institute of Technology, Germany
16:30-17:30	Journal Club * Thomas Berendonk , Technische Universität Dresden, Germany

* **Journal club** - papers on antibiotic resistance (will be sent to participants prior to the workshop)

Wednesday, June 15th, 2016

Time	Description
9:00-10:45	Genome based methodologies Eddie Cytryn , Agricultural Research Organization, Volcani Center, Israel
11:00-12:30	Workshop: introduction to group projects - 4-5 hands-on projects with tasks focusing on qPCR and bioinformatics hands case study analyses ** Teaching assistants
12:30 - 13:30	LUNCH
13:30-16:00	Workshop (continued)
16:00-16:30	Coffee Break
16:30-18:00	Project presentations (20 min each)

****Workshop:** divide into 4-5 groups, each will receive a "project"