

FINAL PROJECT WORKSHOP

„TRACKING AND ASSESSING THE RISK FROM ANTIBIOTIC RESISTANT GENES USING CHIP TECHNOLOGY IN SURFACE WATER ECOSYSTEMS (TRACE)“

DECEMBER 7, 2017 // 09:00

Leibniz IPHT Jena (Beutenberg Campus) // Foyer // Albert-Einstein-Str. 9 // 07745 Jena

PRELIMINARY PROGRAM

09:00 Welcome & Introduction // Wolfgang Fritzsche

ANTIBIOTIC RESISTANCE // Wolfgang Fritzsche

09:10 The burden of multi-resistant Gram-negative bacteria (MRGN)
Oliwia Makarewicz // Jena University Hospital, Germany

09:35 Tetracycline Resistance – General Properties and Specific
Features in Chlamydia
Christian Berens // Federal Research Institute for Animal Health, Jena

10:00 Detection of Waterborne Pathogens in Hospital-Related
Water Using Next-Generation Sequencing Technologies
Silvia Garcia Cobo // University Medical Center Groningen, Netherlands

10:25-11:00 COFFEE BREAK

CONTAMINANTS IN RAW WATERS // Enda Cummins

11:00 Indicators or Pathogens – Which Parameters are Suitable
for a Microbiological Risk Assessment of the Raw Water?
Hartmut Willmitzer // Thuringian Reservoir Adm., Germany

11:25 Quantification of Antibiotic Resistant E. coli in two River
Systems of Central Italy
Angelo Solimini // Sapienza University, Rome, Italy

11:50 Impact of Wastewater Discharges on the Resistome and the
Mobilome of Surface Waters (the Saale River and the Ter
River as Model Systems)
Carles Borrego // Catalan Water Institute Girona, Spain

12:15-13:00 LUNCH BREAK

HUMAN EXPOSURE // Angelo Solimini

13:00 Human Exposure to Antibiotic Resistant Escherichia coli
through Drinking and Irrigation Water Sources.
Eithne O’Flaherty // UCD, Ireland

13:25 Analysis of Water, Food and Antibiotics in a Commercial Lab
Bernd Giese // Synlab, Jena, Germany

13:50 Antibiotics and Resistance in Waste Water
Peter Krebs // TU Dresden, Germany

14:15-15:00 COFFEE BREAK

MOLECULAR DETECTION APPROACHES // Wolfgang Fritzsche

15:00 A Simple Spectrophotometer for Colorimetric DNA Assays
Matthias Urban // Leibniz IPHT Jena, Germany

15:25 Paralleled Identification of DNA by Localized Surface
Plasmon Resonance (LSPR) by an Imaging Spectrometer
David Zopf // Leibniz IPHT Jena, Germany

16:00 End

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