

## Workshop on

### Molecular Methods in Microbiology and Epidemiology

Rijeka, June 12<sup>th</sup> – 15<sup>th</sup>, 2012 University of Rijeka, Faculty of Medicine Department of Microbiology

# Workshop Program

#### Day I - Tuesday June 12<sup>th</sup>, Lecture Hall

10:00 – 11:00	Anders Sjostedt, University of Umeå, Sweden Advice and regulations regarding BSL3 facilities
11:00 – 11:30	Coffee break
11:30 – 12:30	<b>Evelyn Stelzl,</b> Medical University of Graz, Austria <i>Trends in routine molecular diagnostics</i>
12:30 – 13:00	<b>Mihaela Matovina</b> , Faculty of Medicine, University of Rijeka <i>Molecular typing by Pulsed Field Gel Electrophoresis (PFGE)</i> - introduction
13:00 – 14:00	Lunch

### Day II - Wednesday June 13<sup>th</sup>, Department of Microbiology

	Hands-on laboratory work: PFGE for Klebsiella pneumoniae genotyping (Mihaela Matovina, Vanja Vasiljev Marchesi)
09:00 - 12:00	Bacterial cultures preparation
12:00 – 13:00	Lunch
13:00 – 17:00	Agarose plugs preparation Incubation of plugs in lysis buffer 1 Washing Incubation of plugs in lysis buffer 2









# Day III - Thursday June 14<sup>th</sup>, Department of Microbiology

09:00 – 13:00	Hands-on laboratory work: PFGE for Klebsiella pneumoniae genotyping (Mihaela Matovina, Vanja Vasiljev Marchesi)
	Washing Preparation of samples for restriction enzyme digestion Restriction enzyme digestion
13:00 – 15:00	Lunch
15:00 – 17:00	Sample loading Gel preparation Electrophoresis

## Day IV - Friday June 15<sup>th</sup>, Lecture Hall

09:30 – 09:50	<b>Suzana Bukovski,</b> University Hospital for Infectious diseases "Dr. Fran Mihaljević", Zagreb When, why and how to apply molecular diagnostics of invasive bacterial infections
09:50 – 10:10	<b>Ana Budimir</b> , Clinical Hospital Center and School of Medicine, University of Zagreb <i>Molecular typing methods for bacterial pathogens</i>
10:10 – 10:30	Vera Katalinić Janković, Croatian National Mycobacteria Reference Laboratory, Zagreb Molecular tools in diagnosis and TB control
10:30 – 11:00	Coffee break
11:00 – 11:20	Ivana Goić Barišić, Clinical Department of Microbiology and Parasitology, Split University Hospital and Faculty of Medicine, University of Split Molecular epidemiological investigation of carbapenem- resistant Acinetobacter baumannii isolates from Split University Hospital during ten years period
11:20 – 11:40	Mihaela Matovina, Faculty of Medicine, University of Rijeka Genotyping of Pseudomonas aeruginosa by PFGE
11:40 – 12:00	Discussion
12:00 – 14:00	Lunch
14:00 – 16:00	Hands-on laboratory work: PFGE for Klebsiella pneumoniae genotyping (Mihaela Matovina, Vanja Vasiljev Marchesi)
	Gel staining and documentation Analysis of PFGE results GelCompar II software demonstration





