

**THE CROATIAN ACADEMY OF SCIENCES AND ARTS**  
**The Department of Clinical and Transplantation Immunology and**  
**Molecular Medicine in Rijeka**

**UNIVERSITY OF RIJEKA**  
**Department of Biotechnology**

**Faculty of Medicine**

**Faculty of Law**

**JEAN MONNET INTER - UNIVERSITY CENTRE OF EXCELLENCE OPATIJA**

**THE CROATIAN MEDICAL ASSOCIATION – Branch office Rijeka**

**17<sup>th</sup> Symposium**

**COMPREHENSIVE APPROACH TO**  
**PERSONALIZED MEDICINE**

Medical, Legal and Economic Implications for  
Croatian Healthcare System

Rijeka – Opatija, November 10<sup>th</sup>-11<sup>th</sup>, 2016



**November 10<sup>th</sup>, 2016**

**9:30**

**University Campus Rijeka, University Departments, Lecture Hall 0-030,**  
**Radmile Matejčić 2, Rijeka**

***Information***

Željana Mikovčić, Department of Clinical and Transplantation Immunology and  
Molecular Medicine, Radmile Matejčić 2, Rijeka  
Phone: 051 584 826, e-mail: rimed@hazu.hr

***Scientific Committee***

**Daniel Rukavina, president**

Nada Bodiroga - Vukobrat, Krešimir Pavelić, Bernd Baron Von Maydell

***Organizing Committee***

**Nada Bodiroga - Vukobrat, president**

Krešimir Pavelić, Marija Kaštelan Mrak, Gordan Gulan

***Registration: 8:30 – 9:30***

Participants who want a certificate from the Croatian Medical Chamber need to register on the day of the symposium.

Lunch and refreshments during break will be provided free of charge.

Parking is free and provided in the building of the Student Center Rijeka (Radmile Matejčić 5)

**P R O G R A M**

**OPENING**

**(9:30 – 10:00)**

***Introduction***

**Daniel Rukavina**, Head, Dept. Clinical & Transpl. Immunol. and Molecular Medicine, Croatian Academy of Sciences and Arts, Rijeka, Croatia

***Welcome speeches***

**Davor Štimac**, M.D., PhD., Professor, Head of the Clinical Hospital Center Rijeka, Rijeka, Croatia

**Tomislav Rukavina**, M.D., PhD., Professor, Dean of the Medical Faculty, Rijeka, Croatia

**Eduard Kunštek**, PhD., Professor, Dean of the Faculty of Law, Rijeka, Croatia

**Pero Lučin**, M.D., PhD., Professor, Rector of the University of Rijeka, Rijeka, Croatia

10:00 – 11:00

**I. PROMOTION OF THE BOOK  
PERSONALIZED MEDICINE : A NEW MEDICAL AND SOCIAL CHALLENGE**

**Publisher: Springer, Berlin - New York, 2016.**

***Editors:***

Bodiroga-Vukobrat, N., Rukavina, D., Pavelić, K. and Sander, G.G.

**The book will present:**

***Reviewer:***

**Hans – Peter Zenner**, M.D., PhD., Professor, Medical Faculty, University of Tübingen, Tübingen, Germany,

***Editors:***

**Nada Bodiroga - Vukobrat**, PhD., Professor, Faculty of Law, University of Rijeka, Rijeka Croatia

**Krešimir Pavelić**, M.D., PhD., Professor, Department of Biotechnology, University of Rijeka, Rijeka, Croatia

11:00 – 11:45

**II. PERSONALIZED MEDICINE – MEDICAL ASPECTS**

**Chairman: Daniel Rukavina**

***Keynote lecture:***

**Hans - Peter Zenner**, M.D., PhD., Professor, Medical Faculty, University of Tübingen, Germany

**Personalized medicine: German experience**

**Coffee break: 11:45 – 12:15**

12:15 – 14:15

**Chairmen: Krešimir Pavelić and Sonja Pavlović**

**John Hopkins**, MSc., Waters Corporation, Manchester, United Kingdom and Department of Biotechnology, University of Rijeka, Rijeka, Croatia

**Mass spectrometry in personalized diagnostic**

**Đuro Josić**, PhD., Professor, Department of Biotechnology, University of Rijeka, Rijeka, Croatia  
**Implementation of proteomics in personalized medicine**

**Paola Roncada**, PhD., Associate Professor, Department of Veterinary Medical Sciences, University of Milano, Milano, Italy

**Biofilm in *S. aureus* and changes in proteome profile**

**Sonja Pavlović**, PhD., Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, Belgrade, Serbia

**Pharmacogenomics of acute leukemia in children: a path to personalized medicine**

**Lunch with a panel of speakers: 14:15 – 15:00**

**15:00 – 16:30**

**Chairmen: Sandra Kraljević Pavelić and Đuro Josić**

**Antonio Starčević**, PhD., Associate Professor, Faculty of Food Technology and Biotechnology, University of Zagreb, Zagreb, Croatia

**Laboratory grown microbiome**

**Darko Polšek**, PhD., Professor, Faculty of Philosophy, University of Zagreb, Zagreb, Croatia

**Personalized medicine, cognitive enhancement and future eugenics**

**Ingrid Belac Lovasić**, M.D., PhD. Clinical Hospital Center Rijeka and Medical Faculty of the University of Rijeka, Rijeka, Croatia; **Franjo Lovasić**, M.D., PhD., Clinical Hospital Center Rijeka and Medical Faculty of the University of Rijeka, Rijeka, Croatia

**The targeted treatment of breast cancer**

**November 11<sup>th</sup>, 2016**

**9:30**

**Location: Vila Antonio, Vladimira Nazora 2, Opatija**

### **III. PERSONALIZED MEDICINE – ECONOMIC AND LEGAL ASPECTS**

*Welcome speech*

**Ivo Dujmić**, Mayor of Opatija, Opatija

**9:40 – 11:15**

**Chairmen: Bernd Baron von Maydell and Marija Kaštelan Mrak**

**Bernd Baron Von Maydell**, PhD., Professor Emeritus, Max Planck Institute for Social Law and Social Policy, München, Germany; **Boris Von Maydell**, Verband der Ersatzkasse e.V. Berlin, Germany

**Personalized medicine and system of social security**

**Nada Bodiroga - Vukobrat**, PhD., Professor, Faculty of Law, University of Rijeka, Rijeka Croatia; **Hana Horak**, PhD., Professor, Faculty of Economics and Business, University of Zagreb, Croatia

**Regulatory possibilities and obstacles in new health technologies - disclosure of data and new diseases**

**Maks Tajnikar**, PhD., Professor, Faculty of Economics, University of Ljubljana, Slovenia; **Petra Došenović Bonča**, PhD., Assistant Professor, Faculty of Economics, University of Ljubljana, Slovenia

**Macroeconomic environments and the development of personalized medicine**

**Franco Becchis**, Professor, Scientific Director, Fondazione per l'Ambiente, Turin School of Local Regulation, Turin, Italy

**Mechanism design and local regulation: the case of welfare and aid policies**

**Coffee break: 11:15 – 11:30**

**11:30 – 12:20**

**Chairmen: Boris von Maydell and Nada Bodiroga Vukobrat**

**Nenad Vretenar**, PhD., Assistant Professor, Faculty of Economics, University of Rijeka, Croatia; **Jelena Jardas Antonić**, PhD., Assistant Professor, Faculty of Economics, University of Rijeka, Croatia

**Actuarial challenges in personalized medicine**

**Davor Mance**, PhD., Faculty of Economics, University of Rijeka, Croatia;  
**Diana Mance**, PhD, Department of Physics, University of Rijeka, Rijeka, Croatia;  
**Dinko Vitezić**, M.D., PhD., Professor, Faculty of Medicine, University of Rijeka, Rijeka, Croatia

**Personalized medicine and personalized pricing: four degrees of price discrimination**

**Marija Kaštelan Mrak**, PhD., Professor, Faculty of Economics, University of Rijeka, Croatia; **Danijela Sokolić**, PhD., Assistant Professor, Faculty of Economics, University of Rijeka, Croatia

**Evolution paths of business models in personalized medicine**

**Lunch with a panel of speakers: 12:20 – 13:15**

13:15 – 14:45

**Chairmen: Hana Horak and Danijela Sokolić**

**Adrijana Martinović**, PhD., Faculty of Law, University of Rijeka, Rijeka, Croatia  
**Health care and EU law: the role of solidarity?**

**Ana Pošćić**, PhD, Assistant Professor, Faculty of Law, University of Rijeka, Rijeka, Croatia

**Antitrust issues in the European pharmaceutical market – the latest developments**

**Ivana Kunda**, PhD, Associate Professor, Faculty of Law, University of Rijeka, Rijeka, Croatia

**Intellectual property issues in medical application of 3D printing**

**Mijo Božić**, PhD., LL.M., University of applied sciences Ludwigsburg, Ludwigsburg, Germany

**The legal framework for genetic testing in the workplace in Germany**

**Matija Miloš**, LL.M., Faculty of Law, University of Rijeka, Rijeka, Croatia  
**Contextualizing bodily privacy in preimplantation genetic testing procedures**

**Vanja Smokvina**, PhD., Assistant Professor, Faculty of Law, University of Rijeka, Rijeka, Croatia

**Doping in sports: legal and other aspects**

#### **IV. CLOSING REMARKS : Nada Bodiroga - Vukobrat**

The symposium is supported by the **Croatian Science Foundation project no. IP-2013-11- 5709** „Perspectives of maintaining the social state: towards the transformation of social security systems for individuals in personalized medicine“ and **Hanns-Seidel-Stiftung**.

