



**“Smart Specialization Strategy in the Field of Biotechnologies in Europe:
A Challenge for CEE Region”
Draft Program**

Venue: Hotel Tatra, Bratislava, Slovak Republic

Date: 4th – 6th September 2017

4th September 2017 (Monday)

- 9:00-9:20 **Opening session: welcome and greetings**
Prof. S. Miertuš (*University of SS. Cyril and Methodius in Trnava & ICARST*)
Prof. J. Matuš, rector of UCM, **Prof. R. Boča**, dean of FNS UCM
EC-JRC, CEI, ICGEB (Dr. Guy Van Den Eede; Dr. P. Canciani; Prof. M. Giacca)
Ministry of Education, Science and Sport of the Slovak Republic (Prof. M. Plavčan - minister to be conf.
- 9:20 -9:50 **Horizon 2020 EC programs with relevance to Smart Specialization Strategy in Europe: Present state and future (Dr. T. Calikowski, EC, Belgium)**
- 9:50-10:10 **RIS3 strategy in Slovakia- current state and relevance to Biotechnology (ministerial or government office representatives)**
- 10:10-10:30 Coffee break

Key lectures

- 10:30-11:00 **Present state and prospects of biotechnologies (Prof. K. Gartland, Glasgow Caledonian University, UK)**
- 11:00-11:30 **Advanced biofuels, biorefinery, biobased chemicals (ABB) (Prof. M. Kaltschmitt, Hamburg University of Technology, Germany)**
- 11:30-12:00 **Novel breeding technologies (Dr. G. Van Den Eede, EC-JRC, Geel, Belgium)**
- 12:00-12:30 **Future medicinal biotechnologies (Prof. M. Giacca, ICGEB, Trieste, Italy)**
- 12:30-13:00 **Discussion**
- 13:00-14:00 Lunch
- 14:00-15:20 **International programs to support biotechnologies and biobased industries development relevant to RIS3 (EC Horizon 2020, ICGEB, JRC-EC, CEI)**
- 14:00 **The smart specialization thematic platforms, promoting interregional cooperation in smart specialization towards joint businesses (focus on Bio-energy, bio-economy and agro-food specializations) (Dr. G. Van Den Eede)**
- 14:40 **ICGEB – brief survey of biotechnology program (Prof. M. Giacca)**
- 15:00 **CEI regional programs on bioeconomy, advanced biofuels and biotechnology (Dr. P. Canciani)**

Industrial biotechnologies: R&D and biobased industries

- 15:20-18:30
- 15:20 Biomass value chain (availability, logistic, transformation technologies, applications) (P. Bothmer, FNR, Germany)
- 15:40 Technologies and industrial scale-up of ABB (status, problems, future prospects) - situation in the world and in Europe (BBI-JU, Belgium, t. b. c.)
- 16:10-16:30 Coffee break
- 16:30 Producing biobased chemicals using industrial biotechnology (Prof. B. Kamm, Research Institute Biopos and Brandenburg University of Technology, Germany)
- 17:00 Advances in biotechnological production of polymers and materials (Dr. M. Koller, University of Technology, Austria)
- 17:30 Case study of algae production integration to waste water treatment: introduction of the Climate-KIC MAB2.0 project (Dr. M. Gyalai-Korpos, PANNON Pro Innovations Ltd., Hungary)
- 18:00 Remediation and environmental biotechnologies (Prof. I. Holoubek, Masaryk University in Brno, Czech Republic, t. b. c.)
- 18:30-19:00 **Discussion**
- 19:00 Dinner - Welcome party

5th September 2017 (Tuesday)

- 8:30 – 10:10 **"Green" agro-food biotechnologies**
- 8:30 Recent trends in plant biotechnologies (Prof. M. I. Cordea, University of Agricultural Sciences and Veterinary Medicine, Romania, t. b. c.)
- 9:00 Food biotechnology and biotechnological foods (Prof. A. Slavica, University of Zagreb, Croatia)
- 9:30 Animal biotechnologies (Prof. J. Rafay, UCM, Slovakia)
- 9:50 The plant microbiome and next generation agriculture (Prof. V. Venturi, ICGEB, Trieste, Italy)
- 10:10 -10:30 Coffee break

Medicinal and pharma biotechnologies

- 10:30 -12:20 **Pharmacology, gene therapy, diagnostics**
- 10:30 A novel therapeutic based on drone macrophages (Prof. M. Salzet, University of Lille, France)
- 11:00 Gene therapy for heart diseases (Dr. S. Zacchigna, ICGEB, Italy)

11:20	Opportunities for biosimilar drugs (Dr. M. Baralle, ICGEB, Italy)
11:40	Biomarkers development for early detection of cancer (Prof. G. Fassina, Xeptagen, Italy),
12:00	Biosensors for medical applications (Dr. J. Tkáč, SAS, Slovakia)
12:20	Lysosomal enzymes in Parkinson's disease (Prof. T. Beccari, University of Perugia, Italy, t. b. c.)
12:40	Health aspects and molecular mechanisms of action of Vitamin D (Prof. A. Moulas, Technological Education Institute, Greece)
13:00-14:00	Lunch
14:00-16:00	Stem cells, tissue engineering, bioadditive manufacturing and regenerative medicine
14:00	Trends in tissue repair and regeneration (Prof. E. Sykova, The Institute of Experimental Medicine, Czech Republic)
14:30	Biotechnologically reconstructed human tissue models in toxicity testing of chemicals, pharmaceuticals and cosmetics (Dr. H. Kandarova, MatTek Corp., Slovakia)
14:50	Dual-scale polymeric constructs a scaffolds for tissue engineering (Prof. F. Chiellini, University of Pisa, Italy)
15:20	Application of bioadditive manufacturing in regenerative medicine (Prof. R. Hudák, Technical University of Košice, Slovakia)
15:40	Design of microcapsule cell delivery system (Dr. I. Lacik, SAS, Slovakia)
16:00-16:20	Coffee break
16:20-17:40	Development of national and regional cooperation in biotechnologies - role of biotechnology centers and clusters
16:20	Key programs and international cooperation of Biomedicinal center of SAS (Prof. S. Pastoreková, SAS, Slovakia)
16:40	Key programs of CEITEC, Brno, CZ (Dr. M. Dettenhofer, CEITEC, Czech Republic)
17:20	BIOEAST: Central and Eastern European cooperation programs in Bioeconomy and Biotechnology (Dr. V. Vasary, Research Institute of Agricultural Economics, Hungary)
17:40-18:40	Sustainability and bioeconomy
17:40	Sustainability challenges in biotechnologies and biobased industries in Europe (Dr. U. Bos, Life Cycle Engineering, Germany, t. b. c.)
18:10	Bioeconomy: the key issues in Europe (Dr. J. Kreysa, JRC-EC, Belgium)
18:40-19:00	Discussion
19:30	Dinner
20:00-24:00	Poster session - Free discussions at posters
6th September 2017 (Wednesday)	
9:00-9:50	From research to innovation and to industry in biotechnology, public-private partnership, future biobased high tech industries
9:00	Role of BBI-JU in the promotion of biobased industries and bioeconomy in Europe (BBI-JU, Belgium, t. b. c.)
9:20	Laboratory for transfer of know-how for biosimilars development and production at ICGEB (Dr. N. Skoko, ICGEB, Italy)
9:40	The experience in setting up of high-tech company (Prof. G. Fassina, Xeptagen, Italy)
10:00	From research and innovation to high tech in diagnostics: The experience the MAGI (Dr. M. Bertelli, MAGI, Italy)
10:20-10:40	Coffee break
10:40-12:00	Country reports and regional cooperation (IBT, biobased industry, medicinal biotechnologies high tech industries- RIS3 - CZ, SK, HR, PL, other selected CEE countries)
10:40	Current state of biotechnology and prospects in Slovakia (Prof. J. Turňa, University of Comenius, Slovakia, t. b. c.)
11:00	Current state of biotechnology and prospects in Belarus (Prof. A. V. Kilchevsky, National Academy of Sciences of Belarus, Belarus, t. b. c.)
11:20	Current state of biotechnology and prospects in Ukraine (Prof. Y. Blume, Ukraine, t. b. c.)
11:40	Current state of biotechnology and prospects in Bosnia and Herzegovina (Prof. L. Pojskic, IGEB, Bosnia and Herzegovina)
12:00	Current state of biotechnology and prospects in Croatia (Dr. B. Santek, University of Zagreb, Croatia, t. b. c.)
12:20-13:20	Regional cooperation in biotechnologies - potential role of international programs
12:20	Initiatives for promoting bioeconomy– national experiences and recommendations for the Danube Region (Prof. H. Dürrstein, BOKU, Austria)
12:35	European biotechnology thematic network association (Prof. M. DüNDAR, EBTNA, Turkey)
12:50	Central European Initiative – CEI: Towards a Danube Bioeconomy RTI strategy (Dr. P. Canciani, CEI, Italy)
13:05	ICGEB affiliated centers in Central and Eastern Europe (Prof. V. Venturi, ICGEB, Italy)
13:20-14:20	Lunch
14:20-15:20	Working groups discussion on regional cooperation in biotechnologies focusing on smart specialization
15:20-15:50	Preparation of proposals on regional cooperation
15:50-16:20	Plenary discussion, presentation of working groups recommendation
16:20-16:50	Conclusions