



Artificial Organs 2016

A Symposium
of the International Faculty for Artificial Organs
in cooperation with the Moscow Institute of Physics & Technology
and the Academician V.I. Shumakov Federal Research Center
of Transplantology and Artificial Organs

September 04/07
Dolgoprudny,
Institutsky pereulok 9



15.30h – 16.00h	Membrane surface modification by means of nanoparticles	Prof. Dr. Wojciech Piatkiewicz Institute for Sustainable Technologies – National Research Institute, Radom, “Polymemtech”, Warszawa, Poland
16.00h – 16.30h	Aspects of multi-functionality and clinical translation in biomaterial application	Prof. Dr. Andreas Lendlein Helmholtz Centre Teltow, Germany
16.30h – 17.00h	Droplet-Microarray: miniaturized platform for high-throughput cell screenings in 2- and 3D micro-environments	Dr. Anna Popova Karlsruhe Institute of Technology (KIT), Germany

≈ 18.00 Evening Programme ≈

Tuesday, September 06, 2016 (Day 2)

Session III: The Artificial Kidney

Chairmen: Prof. Dr. Gerardo Catapano, Prof. Dr. Sergei Selishchev

09.00h – 09.30h	Uremic retention solutes and need for removal	Prof. Raymond Vanholder Ghent University, Belgium
09.30h – 10.00h	The Artificial Kidney Technical aspects and state-of-the-art of haemodialysis	Dr. Peter Ahrenholz Rostock, Germany
10.00h – 10.30h	Bioengineered kidney tubules for the excretion of uremic toxins	Prof. Dr. Dimitrios Stamatialis Twente University, NL
10.30h – 11.00h	Problems of wearable artificial kidney development	Dr. Nikolai Bazaev National Research University of Electronic Technology, Russia
11.00h – 11.30h	Coffee Break	

Session IV: Artificial Endocrine Systems – Liver and Pancreas

Chairmen: Prof. Dr. Jörg Vienken, Prof. Dr. Oleg Reznik

11.30h - 12.00h	It takes a flower: new criteria of bioreactor design for organ substitution	Prof. Dr. Gerardo Catapano University of Calabria, Cozenza, Italy
12.00h – 12.30h	Artificial pancreas and technical support of diabetes treatment	Dr. Piotr Ladyzynski IBIB-PAN, Warsaw, Poland
12.30h – 13.00h	Novel strategies for immune-protective islet macro-encapsulation	Prof. Dr. Dimitrios Stamatialis Twente University, NL
13.00h – 13.30h	The Artificial Liver: Problems and solutions	Prof. Dr. Steffen Mitzner Rostock University, Germany
13.30h – 14.30h	Lunch Break	