



October, 9 th Thursday	
14:00 - 15:00	Lunch – Restaurant
15:30 - 15:45	Opening ceremony
Session I - Chairperson: Jan Chlopek	
Plenary lecture	
15:45 - 16:30	S. Stübinger, K. Nuss, A. Bürki, I. Mosch, M. Sidler, S. T. Meikle, B. von Rechenberg, Matteo Santin <i>(Brighton Cluster for Regenerative Medicine, University of Brighton, UK)</i> Synthetic phosphoserine-tethered hyperbranched peptides as biomimetic coatings for medical implants
16:30 - 17:00	Coffee break - Cafe bar
Session IA - Chairpersons: Janusz Kasperczyk, James Kirkpatrick	
Oral presentations	
17:00 - 17:15	L. Bacakova, J. Liskova, L. Stankova, A. Kromka <i>Surface modifications of clinically used metallic implants for enhancing their biocompatibility and bioactivity - a review</i>
17:15 - 17:30	A. Donesz-Sikorska, J. Krzak, J. Kaleta, E. Pamula <i>Hybrid and doped sol-gel derived coatings as activators of metallic implants surface</i>
17:30 - 17:45	A. Kazek-Kęsik, M. Krok-Borkowicz, I. Kalemba, J. Michalska, E. Pamula, W. Simka <i>Bioactive coatings formed on Ti-13Nb-13Zr alloy by PEO process</i>
17:45 - 18:00	M. Golda-Cępa, M. Brzywczy-Włoch, K. Gębarowska, J. Jaworska, M. Musiał-Kulik, J. Kasperczyk, K. Engvall, A. Kotarba <i>Multilayer metal implant coating - investigations of MG-63 cells adhesion, bacteria attachment and controlled drug delivery</i>
18:00 - 18:15	D. Batory, D. Bociąga, W. Szymański, Ł. Kołodziejczyk, W. Kaczorowski, A. Jędrzejczak, P. Niedzielski <i>Physicochemical characteristics of doped carbon coatings - silver and silicon case study</i>
18:15 - 18:30	D. Bociąga, D. Batory, A. Jędrzejczak, W. Jakubowski, P. Komorowski, P. Niedzielski <i>Biological properties of doped carbon coatings - silver and silicon case study</i>
19:00 - 22:00	Horse-drawn wagon ride and bonfire Dinner - Restaurant
22:00 - 1:00	Disco - Cafe bar

October, 10 th Friday	
7:00 - 8:00	Swimming pool
8:00 - 8:45	Breakfast – Restaurant
8:30 - 9:00	Posters mounting
Session II - Chairpersons: Elżbieta Pamula, Matteo Santin	
Plenary lecture	
9:00 - 9:45	James Kirkpatrick <i>(Institute of Pathology, University Medical Center, Johannes Gutenberg University of Mainz, Germany)</i> Biomaterial-based regenerative medicine: challenges and opportunities
Oral presentations	
9:45 - 10:00	M. Bacakova, T. Riedel, D. Stranska, E. Brynda, L. Bacakova <i>Fibrin and collagen structures on nanofibrous membranes as carriers for skin</i>
10:00 - 10:15	M. Włodarczyk-Biegun, M. Werten, F. de Wolf, J. van den Beucken, S. Leeuwenburgh, M. A. Cohen Stuart, M. Kamperman <i>Silk-collagen-inspired copolymer: promising biomaterial produced by yeasts</i>
10:15 - 10:30	B. Ostrowska, W. Świążkowski <i>3D fiber-deposited scaffolds for tissue engineering. Influence of internal geometry on mechanical properties</i>
10:30 - 11:00	Coffee break - Cafe bar
Session III - Chairpersons: Lucie Bacakova, Elżbieta Krasicka-Cydzik	
Plenary lecture	
11:00 - 11:45	Ewa Zuba-Surma <i>(Jagiellonian University, Department of Cell Biology, Krakow, Poland)</i> Stem cells and their derivatives – hopes and challenges in regenerative medicine
Oral presentations	
11:45 - 12:00	O. Rotan, V. Sokolova, P. Gilles, W. Hu, S. Dutt, T. Schrader, M. Epple <i>Calcium phosphate nanoparticles for delivering synthetic drug candidates across the cell membrane</i>
12:00 - 12:15	P. Dobrzyński, P. Rychter, E. Pamula, A. Orchel, A. Smola, J. Kasperczyk, J. Kapuśniak <i>Poly(L-lactide-co-glycolide-co-trimethylene carbonate) scaffolds with shape memory behaviour, synthesis and application attempts</i>
12:15 - 12:30	S. Li, X. Wu, K. Jelonek, V. Darcos <i>Self-assembled aggregates prepared from amphiphilic polylactide-poly(ethylene glycol) block copolymers as potential drug carriers</i>
13:00 - 14:00	Lunch – Restaurant



Session IV - Chairpersons: Suming Li, Zbigniew Paszenda	
Keynote presentation	
15:00 - 15:30	Living bone as poroelastic biomaterial and biomechatronic adaptive <i>R. Uklejewski, P. Rogala</i>
Oral presentations	
15:30 - 15:45	R. Będziński, J. Chlopek, R. Frączak, M. Kotela <i>Osteosynthesis on the base polymer implants - selected problems</i>
15:45 - 16:00	P. Domalik-Pyzik, A. Morawska-Chochół, M. Rzewuska, B. Szaraniec, J. Chlopek <i>Antibacterial activity study of poly(L-lactide) composites for intramedullary nails</i>
16:00 - 16:15	K. Loza, C. Sengstock, S. Chernousova, M. Köller, M. Epple <i>On the nature of silver ions in biological media</i>
16:15 - 16:30	A. Przekora, G. Ginalska <i>Modification of bone chitosan/HA scaffold with beta-1,3-glucan significantly improves its biocompatibility in vitro</i>
16:30 - 18:30	Poster session and rapid fire presentations
19:00 - 1:00	Folk evening - Cottage bar "Nad potokiem"
October, 11th Saturday	
7:00 - 8:00	Swimming pool
8:00 - 8:45	Breakfast - Restaurant
9:00 - 13:00	Excursion - Niedzica Castle, Czorsztyn Lake Cruise
13:00 - 14:00	Lunch - Restaurant
Session V - Chairpersons: Mirosława El Fray, Ryszard Uklejewski	
Keynote presentation	
15:00 - 15:30	Materials and methods supporting nerve regeneration in peripheral and central nervous system <i>J. Laska, A. Lis, P. Bednarz, D. Szarek</i>
Oral presentations	
15:30 - 15:45	M. Kawalec, M. Pastusiak, J. Jaworska, P. Komar, P. Kurcok, P. Dobrzyński <i>Biodegradable functional polymers extending frontiers of biomaterials</i>
15:45 - 16:00	S. Ristig, O. Prymak, W. Meyer-Zaika, D. Raabe, M. Epple <i>Microstructure and properties of alloyed silver-gold nanoparticles</i>
16:00 - 16:15	K. Arkusz, M. Nycz, E. Paradowska, E. Krasicka-Cydzik <i>Electrochemical detection of Interleukin-6 on titania nanotube platforms</i>
16:15 - 16:30	A. Benko, M. Błażewicz <i>Titanium - carbon nanotubes composite for potential biomedical applications</i>
16:30 - 17:00	Coffee break - Cafe bar

Session VI - Chairpersons: Grażyna Ginalska, Piotr Dobrzyński	
Oral presentations	
17:00 - 17:15	M. Sowa, W. Simka <i>Investigation of electrochemical oxidation process of niobium</i>
17:15 - 17:30	A. Koprowicz, M. Leski, H. Pawlicka <i>Evaluation of shaping ability in simulated root canals with different rotary instruments</i>
17:30 - 17:45	R. Uklejewski, M. Winiecki, R. Tokłowicz <i>Effect of the process parameters of electrochemical cathodic deposition of Ca-P on the modified surface properties of multispiked connecting scaffold preprototypes for non-cemented resurfacing arthroplasty endoprostheses</i>
17:45 - 18:00	P. Sobolewski, K. Penkala, J. Podolski, E. Mijowska, M. El Fray <i>Bi-SENSOR: Multifunctional graphene-based biosensor for medical diagnostics</i>
18:00 - 18:15	Closing ceremony
19:00 - 20:00	Dinner - Restaurant
20:00 - 0:00	Disco - Cafe bar
October, 13th Sunday	
7:00 - 8:00	Swimming pool
8:00 - 8:45	Breakfast - Restaurant
10:00	Departure to Kraków from „Perła Południa”

Rapid fire presentations