

FBPS '15 – PROGRAM – ORAL COMMUNICATIONS

WEDNESDAY JULY 8TH

15.00 REGISTRATION

Chairperson: C. Migliaresi

17.15-17.45 Special Lecture: Teruo Okano
Tokyo Women's Medical University, Japan
Intelligent Surfaces and Their Cell Sheet Tissue Engineering

17.45-18.15 Special Lecture: Emo Chiellini
University of Pisa, Italy
The Long Way to Polymeric Materials for Biomedical & Pharmaceutical Applications

19.30 WELCOME

THURSDAY JULY 9TH

Chairperson: D. Cohn

8.30-9.00 IL1: Shulamit Levenberg
Biomedical Engineering, Technion, Haifa, Israel
3D Polymeric Scaffolds for Engineering Vascularized Tissue Constructs

9.00-9.30 IL2: Dietmar W. Hutmacher
Institute of Health and Biomedical Innovation, Queensland University of Technology, Brisbane, Australia
Designification & Scaffoldification via Melt Electrospinning

9.30-9.45 C1: Antonella Motta, Wei Sun, Yang Shi, Andreas Seekamp, Harald Schmidt, Stanislav N. Gorb, Claudio Migliaresi, Sabine Fuchs
Department of Industrial Engineering, BIOtech Research Center, University of Trento; European Institute of Excellence on Tissue Engineering and Regenerative Medicine, Trento Unit, Italy/Experimental Trauma Surgery, University Medical Center Schleswig-Holstein, Germany/MetaPhysiol, Am Römerberg, Essenheim, Germany/ Department of Zoology, Christian-Albrechts-University, Kiel
Angiogenic potential of silk fibroin-IKVVAV peptide hydrogels: in vitro evaluations in co-culture of outgrowth endothelial cells and human mesenchymal stem cells

9.45-10.00 C2: S. Winzen, S. Schoettler, C. Rosenauer, G. Baier, V. Mailaender, K. Landfester, K. Mohr
Max Planck Institute for Polymer Research, Mainz, Germany
Complementary Analysis of the Hard and Soft Protein Corona: Sample Preparation Critically Effects Corona Composition

10.00-10.15 C3: Laura K. Müller, Johanna Simon, Susanne Schöttler, Volker Mailänder, Kristin Mohr
Max Planck Institute for Polymer Research, Mainz, Germany
Tailoring the Protein Corona of Nanomaterials: How Pre-incubation in Defined Protein Mixtures Isolated from Human Blood Plasma Makes the Difference

10.15-11.00 BREAK AND POSTER SESSION

Chairperson: A. Motta

11.00-11.15 C4: Jacques Desbrieres, Marcel Popa, Catalina Peptu, Simona Bacaita
University of Pau and Adour Region, Pau, France
How Liposomes Can Improve the Drug Release from Chitosan Based Hydrogels

11.15-11.30 C5: Natacha Rodrigues, Naif Alharbi, Matthew Benning, Javier Mungia, Kenneth Dalgarno
School of Mechanical and Systems Engineering, Newcastle University, UK
In-Clinic Manufacture of Hybrid Biopolymer-Bioceramic Medical Devices

- 11.30-11.45 C6: Pasquale Sacco, Massimiliano Borgogna, Ivan Donati, Andrea Travan, Sergio Paoletti, Eleonora Marsich
Department of Life Sciences and Department of Medical, Surgical and Health Sciences, University of Trieste, Italy
Silver-containing Antimicrobial Membrane based on Chitosan-TPP Hydrogel for the Treatment of Wounds
- 11.45-12.00 C7: Yoshikatsu Akiyama, Miki Matsuyama, Naoya Takeda, Masayuki Yamato, Teruo Okano
Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University, Japan
Alternation of PIPAAm Modified PDMS Surface Properties Induced by Mechanical Stretching Stress
- 12.00-12.15 C8: L. García-Fernández, A. del Campo
Max-Planck-Institut für Polymerforschung, Mainz, Germany, and Centro de Investigación Biomédica en Red en Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN), Spain
Bio-inspired Antibacterial Strategies
- 12.30-13.30 LUNCH
- Chaiperson: J. San Roman
- 14.30-14.45 C9: Rui L. Reis
3B's Research Group, University of Minho, Portugal
Unique TERM Approaches Based On The Use of Different Natural Origin Systems
- 14.45-15.00 C10: Volha Liaudanskaya, Antonella Motta, Claudio Migliaresi
Dept. of Industrial Engineering and BIOTech Res. Center, University of Trento, Italy
EHDJ Encapsulation System as a Tool for Organ Printing: 3D Micro Tissues Fabrication and its Following Maturation
- 15.00-15.15 C11: Nesrin Hasirci
Middle East Technical University and BIOMATEN Center of Excellence in Biomaterials and Tissue Engineering, Ankara Turkey
Surface Modifications of Polymeric Materials and Composites
- 15.15-15.30 C12: Jun Kobayashi, Yoshinori Arisaka, Kazuo Ohashi, Kohei Tatsumi, Kyungsook Kim, Yoshikatsu Akiyama, Masayuki Yamato, Teruo Okano
Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University, Japan
Heparin-Functionalized Thermo-responsive Cell Culture Surfaces for Creation of Functional Hepatic Tissues
- 15.30-15.45 C13: Thi Duy Hanh Le, Walter Bonani, Giorgio Speranza, Devid Maniglio, Antonella Motta, Claudio Migliaresi
Department of Industrial Engineering, University of Trento, and Fondazione Bruno Kessler, Trento, Italy
Diatomite Particles: a Potential Source of Biogenic Silica for Bone Regeneration
- 15.45-16.00 C14: Viktor Korzhikov, Ekaterina Sinityna, Kirill Arkhipov, Tatiana Tennikova
St. Petersburg State University and Institute of Macromolecular Compounds of RAS, St. Petersburg, Russia
Composite Alginate Gels with Embedded Polylactide and Polycaprolactone Nanoparticles as New Controlled Release Systems
- 16.00-16.15 C15: Nicola Cagol, Devid Maniglio, Walter Bonani, Claudio Migliaresi
Dept. of Industrial Engineering and BIOTech Res. Center, University of Trento, Italy
Cryopreservation of Cells Encapsulated in Hydrogel: Evaluation of Recovery after Thawing
- 16.15-17.00 BREAK AND POSTER SESSION
- Chairperson: N. Hasirci
- 17.00-17.15 C16: Daniel Cohn
Institute of Chemistry, The Hebrew University of Jerusalem, Israel
Cyanoacrylate-containing Biodegradable Tissue Adhesives: Design and in vitro Performance

- 17.15-17.30 C17: Teruo Okano
Institute of Advanced Biomedical and Science (TWIns), Tokyo Women's Medical University, Japan
3D Tissue Reconstruction by Layered Cell Sheets
- 17.30-18.00 IL3: Manuela E. Gomes
3B's Research Group, University of Minho, Portugal
Polymeric Scaffolds Doped with Magnetic Particles for Improved Functionality in Tendon Tissue Engineering
- 18.00-18.30 IL4: Utkan Demirci
Stanford University School of Medicine, USA
Advanced Technologies in Bioprinting and Biofabrication for On-chip Tissue Models

**FRIDAY
JULY 10TH**

Chairperson: T. Okano

- 8.30-9.00 IL5: Kazunori Kataoka
Departments of Materials Engineering and Bioengineering, The University of Tokyo, Japan
Self-Assembled Supramolecular Nanosystems for Smart Targeted Therapy of Intractable Diseases
- 9.00-9.30 IL6: Thomas Groth
Institute of Pharmacy, Martin Luther University Halle-Wittenberg, Germany
Polysaccharide-Based Platform for Bioactive Surfaces and Hydrogels
- 9.30-9.45 C18: I. A. Dinu, M. Lomora, F. Itel, M. Garni, P. Tanner, M. Spulber, C. G. Palivan
Department of Chemistry, University of Basel, Switzerland
Biomimetic Nano-Compartments with Ion-Selective Membrane Permeability
- 9.45-10.00 C19: Mizuo Maeda
Bioengineering Laboratory, RIKEN Institute, Japan
Stimuli-Responsive Function of Double-Helical DNA-Functionalized Nanoparticles
- 10.00-10.15 C20: S. K. Filippov, P. Chytil, P. V. Konarev, J. M. Franklin, T. Etrych, A. Bogomolova, M. Dyakonova, Ch. M. Papadakis, K. Ulbrich, P. Stepanek, D. I. Svergun
Institute of Macromolecular Chemistry, Prague, Czech Republic, European Molecular Biology Laboratory, EMBL c/o DESY, Hamburg, Germany and Technische Universität München, Garching, Germany
Investigation of Macromolecular HPMA-Based Nanoparticles with Cholesterol Intended for Drug Delivery: Internal Structure and Functionality in Solutions and Real Blood Environment

10.15-10.45 BREAK

Chairperson: G. Khang

- 10.45-11.00 C21: Joanna Raczkowska, Mariya Ohar, Yuriy Stetsyshyn, Joanna Zemła, Kamil Awwsiuk, Jakub Rysz, Katarzyna Fornal, Andrzej Bernasik, Halyna Ohar, Svitlana Fedorova, Oksana Shtapenko, Svyatoslav Polovkovich, Volodymyr Novikov, Andrzej Budkowski
Smoluchowski Institute of Physics, Jagiellonian University, and AGH University of Science and Technology, Kraków, Poland/Lvivska Polytechnika National University and National Academy of Agrarian Sciences of Ukrainian, Lviv, Ukraine
Stimuli-responsive Polymer Coatings for Biomedical Applications: Properties, Protein Adsorption and Cell Growth
- 11.00-11.15 C22: Robert Luxenhofer, Zhijian He, Anita Schulz, Rainer Jordan, Alexander V. Kabanov
Julius-Maximilians-Universität Würzburg, Germany, Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, U.S.A., Technische Universität Dresden, Germany
Doubly-Amphiphilic Poly(2-oxazoline)s in High-capacity Drug Formulations

- 11.15-11.30 C23: Małgorzata Włodarczyk-Biegun, Marc Werten, Frits de Wolf, Jeroen van den Beucken, Sander Leeuwenburgh, Martien Cohen Stuart, Marleen Kamperman
Laboratory of Physical Chemistry and Colloid Science, Wageningen University/ Wageningen UR Food and Biobased Research/Department of Biomaterials, Radboud UMC Nijmegen, The Netherlands
RGD and KRSR Functionalization of Artificial Proteins to Enhance Cell Behaviour in 2D Culture
- 11.30-11.45 C24: E. Antmen, M. Ermis, U. Demirci, V. Hasirci
METU Center of Excellence in Biomaterials and Tissue Engineering, Departments of Biological Sciences and Biomedical Engineering Ankara, Turkey/School of Medicine, Stanford University, Palo Alto, CA, 94304, USA
Effect of Micropatterned Surfaces on Cell Adhesion and Nuclear Deformation of Saos-2 Cells on PLGA and Collagen Films
- 11.45-12.00 C25: Cristiana R. Carvalho, Joaquim M. Oliveira, Rui L. Reis
3B's Research Group, University of Minho, Portugal
Chitosan Films with Low Degrees of Acetylation for Peripheral Nerve Regeneration
- 12.00-12.15 C26: Chen Nowogrodski, Ariel Elyashiv and Daniel Cohn
Institute of Chemistry, The Hebrew University of Jerusalem, Israel
Engineering Multicomponent Reverse Thermo-responsive Systems for the Prevention of Post-surgical Adhesions
- 12.30-13.30 LUNCH
- Chairperson: M. Gomes
- 14.30-14.45 C27: Davide Ret, Simone Knaus
Vienna University of Technology, Institute of Applied Synthetic Chemistry, Austria
Determination of the Degree of Substitution in Hyaluronic Acid Derivatives
- 14.45-15.00 C28: Devid Maniglio, Walter Bonani, Antonella Motta, Claudio Migliaresi
Dept. of Industrial Engineering and BIOtech Res. Center, University of Trento, Italy
One Step Method to Make Porous Scaffolds by Gas Foaming
- 15.00-15.15 C29: Ki Dong Park
Department of Molecular Science and Technology/Applied Chemistry and Biological Engineering, Ajou University, Republic of Korea
In Situ Forming Hydrogels for Tissue Regeneration and Drug Delivery
- 15.15-15.30 C30: Maria Schachner, Claudia Dworak
Vienna University of Technology, Vienna, Austria
Dual RAFT/ROP Initiator for the Synthesis of Amphiphilic Block Copolymers
- 15.30-15.45 C31: N. Celikkin, W. Świąszkowski
Faculty of Material Science and Engineering, Warsaw Univ. of Technology, Poland
UV Crosslinked Naturally Derived Polymers For Tissue Engineering
- 15.45-16.00 C32: Funda Tihminlioğlu, Sedef Tamburacı
İzmir Institute of Technology, Department of Chemical Engineering, and Department of Biotechnology and Bioengineering, Urla, İzmir, Turkey
Production and Characterization of Novel Multilayer Chitosan Based Composite Biomaterial for Bone Regeneration
- 16.00-16.30 BREAK
- Chairperson: T. Groth
- 16.30-16.45 C33: J. San Román, F.J. Parra-Ruíz, A. González-Gómez, M. Fernández, B. Vázquez-Lasa, B. De la Torre, L. Duocastella Codina, M. Molina Crisol
ICTP, CSIC, CIBER-BBN, Hospital Ramón y Cajal, LVD Biotech, Spain
Antimicrobial Self Curing Bone Cements for the Treatment of Osseous Infections
- 16.45-17.00 C34: Duscher Bernadette, Anna Laska, Aysenur Örs Ünsal, Vasiliki-Maria Archodoulaki
Institute of Materials Science and Technology, Vienna University of Technology, Austria and Institute of Materials Science and Engineering, Lodz University of Technology, Poland
Structural Modification of Conventional and Crosslinked PE-UHMW Acetabular Liners due to *in vivo* Time and Load

- 17.00-17.30 IL7: Andrés J. García
Woodruff School of Mechanical Engineering, Petit Institute for Bioengineering and Bioscience, Georgia Institute of Technology, Atlanta, USA
Biofunctional Hydrogels for Cell Delivery and Tissue Repair
- 17.30-18.00 IL8: Andreas Lendlein
Institute of Biomaterial Science and Berlin-Brandenburg Center for Regenerative Therapies, Helmholtz-Zentrum Geesthacht, Teltow, Germany, and Institute of Chemistry, Potsdam, Germany
Multifunctionality in Biomaterials – Going Beyond Compromises

19.30 BANQUET

**SATURDAY
JULY 11TH**

Chairperson: R. Reis

- 8.30-9.00 IL9: Soon Hee Kim, Sang Jin Lee, Jeong Heon Lee, Hoon Hyun, Elain Lunsford, Yoshitomo Ashitate, GwangLi Park, Hak Soo Choi, Gilson Khang
Division of Hematology/Oncology, Dept. of Medicine, Longwood Small Animal Imaging Facility, and Dept. of Radiology, Beth Israel Deaconess Medical Center, Boston, USA/WCU Dept. of BIN Fusion Technology, Chonbuk National University, South Korea/Wake Forest Institute for Regenerative Medicine, Winston-Salem, USA
Real-time Imaging of Tissue Formation using Novel Noninvasive Method in Tissue Engineering
- 9.00-9.15 C35: María Rosa Aguilar, Raquel Palao-Suay, Laura Rodrigáñez, Carolina Sánchez-Rodríguez, Francisco Parra, Mar Fernández, Juan Parra, Juan Riestra-Ayora, Ricardo Sanz-Fernández, Julio San Román
Group of Biomaterials, ICTP-CSIC, Madrid, Spain/CIBER-BBN/Foundation for Biomedical Research, University Hospital of Getafe/European University of Madrid, Villaviciosa de Odón/Clinical Research and Experimental Biopathology Unit, Ávila, Spain
Mitochondrially Targeted Nanoparticles For The Selective Cancer Treatment
- 9.15-9.30 C36: F. Scognamiglio, A. Travan, I. Donati, M. Borgogna, E. Marsich, L. Perge, A. Bosmans, M.P. Foulc, N. Bouvy, S. Paoletti
Dept. of Life Sciences, University of Trieste, Italy/Rescoll, Société de Recherche, Pessac, France/Dept. of Surgery, Maastricht Univ. Medical Centre, The Netherlands
Adhesive Membranes Based on Dopamine-Modified Alginate for General Surgery Applications
- 9.30-9.45 C37: Walter Bonani, Tamer Al Kayal, Devid Maniglio, Paola Losi, Antonella Motta, Giorgio Soldani, Claudio Migliaresi
Dept. of Industrial Engineering and INSTM Research Unit, University of Trento, Italy/Institute of Clinical Physiology, National Research Council, Massa, Italy
Multilayered Vascular Graft Prepared by Electrospinning, Spray Phase-inversion and Fibroin Deposition
- 9.45-10.00 C38: Niels B. Larsen, Esben Kjær Unmack Larsen, Morten Bo Mikkelsen
Department of Micro- and Nanotechnology, DTU Nanotech, Technical University of Denmark, Denmark
Light-guided Polymer Surface Chemistry Spatially Defining Protein and Cell adhesion

10.00-10.30 BREAK

Chairperson: D. Maniglio

- 10.30-10.45 C39: Tianjing Zhao, Devid Maniglio, Claudio Migliaresi
Department of Industrial Engineering and Biotech Research Centre, University of Trento, Italy
Design and Optimization of pH Sensitive Self-nanoemulsifying Drug Delivery System for Acid Labile Lipophilic Drugs

- 10.45-11.00 C40: Rui M. A. Domingues, Silvia Chiera, Stefano Betta, Marta Silva, Pavel Gershovich, Pedro Babo, Sofia Caridade, João Mano, Antonella Motta, Rui L. Reis, Manuela E. Gomes
3B's Research Group, University of Minho, Portugal/Department of Industrial Engineering, University of Trento, Italy
Cellulose Nanocrystals Bionanocomposites for Tissue Engineering Application
- 11.00-11.15 C41: Qian Qian, Walter Bonani, Devid Maniglio, Jie Chen, Claudio Migliaresi
Department of Industrial Engineering, Trento, Italy and Shanghai University, China
Modulating the Release of Drugs from Alginate Matrices with the Addition of Gelatin Microbeads

11.15 CLOSING

FBPS '15 – PROGRAM – POSTERS

ALL POSTERS MUST BE MOUNTED ON WEDNESDAY JULY 8TH, AND SHOULD REMAIN MOUNTED UNTIL FRIDAY EVENING.

- P1 Clara R. Correia, Rui L. Reis, João F. Mano
3B's Research Group, University of Minho, Portugal
Injectable Liquified Capsules Coated with Polymeric Multilayers as Bioencapsulation Systems
- P2 A. Palaveniene, K. Glambaite, O. Baniukaitiene
Kaunas University of Technology, Kaunas, Lithuania
Biomimetic Mineralization of Cellulose-Based Scaffolds for Bone Tissue Engineering
- P3 A. De Trizio, R. Dorati, T. Modena, I. Genta, A. Merelli, B. Conti
Dept. Drug Sciences/Centre for Tissue Engineering, University of Pavia, Italy
Chitosan Based 3D Scaffolds Containing Gentamicin Loaded Particles for Local Drug Administration: Comparative Study between Micro- and Nano-particles
- P4 Ceyda Şimsek, Zeynep E. Eroglu, Candan Erbil
Istanbul Technical University, Science and Letters Faculty, Chemistry Department, Turkey
Ascorbic Acid Release of Cationically Modified Poly(N-isopropylacrylamide) Hydrogels
- P5 Çiçek ENdesav, Umut Benzer, B. Filiz Şenkal, Candan Erbil
Istanbul Technical University, Science and Letters Faculty, Chemistry Department, Turkey
Oleic Acid Loaded Poly(N-isopropylacrylamide) Hydrogels
- P6 Cristiano Carlomagno, Devid Maniglio, Claudio Migliaresi
BIOtech Research Center/Department of Industrial Engineering, University of Trento, Italy
Micropatterned Films made with Breath Figure Technique from Alkoxy Silicone for Biomedical Applications
- P7 Elisa Savini, Monica Sandri, Silvia Panseri, Monica Montesi, Anna Tampieri
Institute of Science and Technology for Ceramics, National Research Council, Faenza Italy
Bio-mineralized Scaffolds with Oriented Microtubules for Dentin Regeneration
- P8 Seda Güneş, Funda Tihminlioğlu
İzmir Institute of Technology, Biotechnology and Bioengineering Program/Department of Chemical Engineering, Urla, İzmir, Turkey
Chitosan Based Bioactive Films for Wound Healing Applications
- P9 M. Rutkowska, J. Brzeska, W. Sikorska, M. Kowalczyk
Gdynia Maritime University, Department of Chemistry and Industrial Commodity Science, Poland/Polish Academy of Sciences, Centre of Polymer and Carbon Materials, Zabrze, Poland
Modification of Crosslinked Polyurethanes Based on Polyhydroxybutyrate by Polylactide
- P10 Joanna Raczowska, Szymon Prauzner-Bechcicki, Ewelina Madej, Joanna Pabijan, Jaroslav Lukes, Josef Sepitka, Jakub Rysz, Kamil Awsiuk, Andrzej Bernasik, Andrzej Budkowski, Małgorzata Lekka
The Henryk Niewodniczański Institute of Nuclear Physics, Polish Academy of Sciences/The Marian Smoluchowski Institute of Physics, Jagiellonian University/Faculty of Physics and Applied Computer Science & Academic Centre 85 for Materials and Nanotechnology, AGH University of Science and Technology, Poland/Czech Technical University in Prague, Faculty of Mechanical Engineering, Czech Republic
The Influence of PDMS Substrate Elasticity on the Morphology and Behavior of Cancerous Cells
- P11 Sang Jun Park, Min Sup Kim, Bon Kang Gu, Kee-Ho Lee, Hyun-Jin Shin and Chun-Ho Kim
Laboratory of Tissue Engineering, Korea Institute of Radiological and Medical Sciences, Seoul, Korea
Anticancer Effects of Lysyl Oxidase Conjugated Nanoparticles
- P12 Kubra Burcu Kutuk, Mehmet Murat Ozmen, Jennifer Patterson
Yıldız Technical University, Department of Bioengineering, Istanbul, Turkey/KU Leuven, Department of Metallurgy and Materials Engineering, Leuven, Belgium
Ovalbumin Biocomposite Cryogels as Tissue Engineering Scaffolds
- P13 E. Malikmammadov, T. Endogan, A. Kiziltay, N. Hasirci
METU, Graduate Department of Micro and Nanotechnology/Central Laboratory/Department of Chemistry/BiomATEN Center of Excellence in Biomaterials and Tissue Engineering, Ankara Turkey
PCL Wet Spun Scaffolds for Antibiotic Delivery
- P14 Marina Sokolova, Marta Branka, Dagnija Loca, Janis Locs
Rudolfs Cimdins Riga Biomaterials Innovations and Development Centre of Riga Technical

- University, Latvia*
Synthesis and Characterization of Biodegradable Polymer and Calcium Phosphate Nanocomposite
- P15 N. M. Alves, S. Rego, A. C. Vale, G. M. Luz, S.G. Caridade, J. F. Mano
University of Minho, Portugal
Multifunctional Biomimetic Coatings that Combine Bioactivity with Superior Adhesion for Orthopaedic Applications
- P16 Nien-Chi Huang, Martin Sieber, Shan-hui Hsu
Institute of Polymer Science and Engineering/Bionet Corporation /Research Center for Developmental Biology and Regenerative Medicine, National Taiwan University, Taipei, Taiwan
Correlating Cell Transfectability and Motility on Materials with Different Physico-Chemical Properties
- P17 Rosasilvia Raggio, Walter Bonani, Francesco Grassi, Claudio Migliaresi, Antonella Motta
Department of Industrial Engineering and Biotech Research Center, University of Trento, Italy/ European Institute of Excellence on Tissue Engineering and Regenerative Medicine, Trento, Italy/RAMSES Laboratory, Istituto Ortopedico Rizzoli, Italy
Silk fibroin scaffolds loaded with H₂S donors for bone tissue engineering
- P18 Senem Heper, Nesrin Hasirci, Vasif Hasirci
Middle East Technical University (METU), BIOMATEN, Center of Excellence in Biomaterials and Tissue Engineering/Department of Biotechnology/Department of Chemistry/Department of Biological Sciences, Ankara, Turkey
Patient-Specific Orthopedic Implant Design and Production With Tissue Engineering Method
- P19 Stefano Zanini, Antonino Natalello, Claudia Riccardi
Dipartimento di Fisica "G. Occhialini"/Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Milano, Italy
Plasma Deposition of Poly(2-Ethyl-2-Oxazoline) Coatings for Biomedical Applications
- P20 S.A. Bulgakova, O.V. Zhukova
Lobachevsky State University of Nizhni Novgorod/Nizhni Novgorod State Medical Academy, Russia
Polymer Selective Delivery System of Doxorubicin for Target Anticancer Therapy
- P21 T. Lorson, M. Komma, P. D. Dalton, R. Luxenhofer
Functional Polymer Materials, Chair for Chemical Technology of Materials Synthesis/Department of Functional Materials in Medicine and Dentistry, University of Würzburg, Würzburg, Germany
Surface Modification of High Definition 3D Printed Scaffolds
- P22 I. A. Dinu, J. T. Duskey, A. Car, M.V. Dinu, C. Palivan, W. Meier
Department of Chemistry, University of Basel, Switzerland/"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
Self-Assembled Nanocarriers Based on Amphiphilic Diblock Copolymers Containing Photo-Labile Moieties
- P23 Mircea Teodorescu, Maria Andrei, Gabriel Turturică, Paul Stănescu, Dumitru Mircea Vuluga, Constantin Drăghici, Anamaria Zaharia, Andrei Sârbu
Department of Bioresources and Polymer Science, Polytechnic University of Bucharest/Center of Organic Chemistry of the Romanian Academy/National Institute of Research and Development for Chemistry and Petrochemistry – ICECHIM, Bucharest, Romania
Degradable Poly(N-isopropylacrylamide)-Poly(ethylene glycol)-Poly(N-isopropylacrylamide) Triblock Copolymers: Synthesis and Thermogelation Properties of Aqueous Solutions
- P24 Bin Chen, Walter Bonani, Tianjing Zhao, Antonella Motta, Claudio Migliaresi
Department of Industrial Engineering and BioTech Research Center, University of Trento, Italy
Injectable In Situ Forming Fibroin Hydrogel and Drug Delivery
- P25 Oon Lee Kang, Antonella Motta, Walter Bonani, Azizan Ahmad, Nur Hasyareeda Hassan, Claudio Migliaresi
Biotech Research Center, Università di Trento, Italy/Faculty Science and Technology, Universiti Kebangsaan Malaysia, Malaysia
Infrared Spectroscopic Studies on Fibroin-Silanol Interaction