

# The 2017 Symposium on Polymeric Biomaterials

*“10 years of The Division of Biomaterials and Microbiological Technologies”*

May 18-19, 2017  
Szczecin, Poland



Symposium Organizer and Chair:  
Professor Mirosława El Fray

Organizing committee:  
Agata Niemczyk, Peter Sobolewski, Jakub Orlikowski

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18 MAY 2017

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8:30 – 9:00 Morning coffee

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### ***Fatty acid-derived polymeric biomaterials***

9:00 – 9:30 **Welcome and Opening Ceremony**

9:30 – 9:50 Agnieszka Piegat, PhD **Fatty acid-based polyester nanocomposites**

9:50 – 10:10 Peter Sobolewski, PhD **Research capabilities of the Laboratory for Bioresearch**

10:10 – 10:30 Wojciech Ignaczak, PhD student **Photocurable networks for soft tissue regeneration**

10:30 – 10:50 Agata Niemczyk, PhD student **Chitosan-fatty acid derivatives as multifunctional coatings**

10:50 – 11:10 Coffee Break

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### ***Current developments in polymers for medical applications***

11:10 – 11:30 Prof. Judit Puskas, The University of Akron **Hydrolysis-resistant Polyurethanes from HO-PIB-OH**

11:30 – 11:50 Sanjeeva Murthy, PhD, New Jersey Center for Biomaterials, Rutgers **Effect of hydration in polymer used as biomaterials**

11:50 – 12:10 Israel Kellersztejn, PhD student, Weizmann Institute of Science **The scorpion skeleton: from structure to mechanical function**

12:10 – 12:30 Liliana Liverani, PhD, University of Erlangen-Nurnberg **Electrospun scaffolds for cardiac tissue engineering: state of the art and future challenges**

12:30 – 14:00 Lunch

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### ***Polymeric biomaterials: from bench to bedside***

14:00 – 14:20 Prof. Wojciech Świążzkowski, Warsaw University of Technology **Biofabrication as a tool for tissue engineering**

14:20 – 14:40 Roman Kustosz, FRK **Utilization of polymeric biomaterials in heart prostheses**

14:40 – 15:00 End of sessions

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### ***Symposium reception***

15:00 *The celebration of 10 years of The Division of Biomaterials and Microbiological Technologies with coffee and sweets*

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9:00-9:30 Morning coffee

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### ***Harmonia Project meeting***

9:30 – 9:50 Àgueda Sonseca Olalla, PhD **Synthesis route of Lipase-catalyzed co-polymers containing dilinoleic diol**

9:50 – 10:10 Marcin Michoń **Tensile properties and elastic recovery of electrospun polyester mats**

10:10 – 10:30 Aleksandra Kaczmarek, PhD student **Physical and chemical functionalization of polyesters with collagen**

10:30 – 10:50 Peter Sobolewski, PhD **Cell-material interactions**

10:50 – 12:30 **Discussion with project partners**

12:30 Lunch