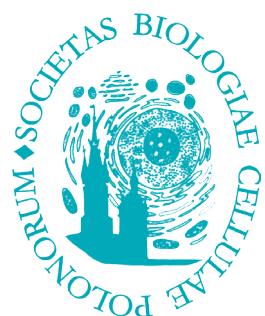


Abstracts of the
BIO 2016 Congress

**2nd Congress of the Polish
Biochemistry, Cell Biology, Biophysics
and Bioinformatics**

**Wrocław, Poland
September 13th–16th 2016**

**50th Meeting of the Polish Biochemical Society
13th Conference of the Polish Society for Cell Biology**



**Abstracts of the
BIO 2016 Congress
Wrocław, Poland
September 13th–16th 2016**

Honorary Patronage:



Mayor of Wrocław,
Rafał Dutkiewicz



**Uniwersytet
Wrocławski**

Rector of University of Wrocław,
Professor Marek Bojarski



Politechnika
Wrocławska

Rector of Wrocław University of
Technology,
Professor Tadeusz Więckowski



**UNIWERSYTET
PRZYRODNICZY
WE WROCŁAWIU**

Rector of the Wrocław Medical
University,
Professor Marek Ziętek

Rector of Wrocław University of
Environmental and Life Sciences,
Professor Roman Kołacz

Key Sponsors:



Abstracts of the
BIO 2016 Congress
Wrocław, Poland
September 13th–16th 2016

Honorary Committee

Prof. Jerzy Duszyński, PhD, DSc, PAS Full Member, President of the Polish Academy of Sciences (PAS)

Mr Rafał Dutkiewicz, Mayor of Wrocław

Prof. Maciej Żylicz, PhD, DSc, PAS Full Member, President of the Foundation for Polish Science

Prof. Andrzej Legocki, PhD, DSc, PAS Full Member, President of the Polish Biochemical Society

Prof. Halina Gabryś, PhD, Dsc, President of the Polish Society for Cell Biology

Dr hab. Witold Rudnicki, PhD, DSc, President of the Polish Bioinformatics Society

Prof. Marek Bojarski, PhD, DSc, Rector of the University of Wrocław

Prof. Marek Ziętek, PhD, DSc, Rector of the Wrocław Medical University

Prof. Tadeusz Więckowski, PhD, DSc, Rector of Wrocław University of Technology

Prof. Roman Kołacz, PhD, DSc, Rector of Wrocław University of Environmental and Life Sciences

Prof. Piotr Biler, PhD, DSc, Dean of the Faculty of Mathematics and Computer Science, University of Wrocław

Prof. Lech Wojtczak, PhD, DSc, PAS Full Member, Honorary Member of the Polish Biochemical Society

Prof. Andrzej Dżugaj, PhD, DSc, Honorary Member of the Polish Biochemical Society

Prof. Alicja Józkowicz, PhD, DSc, Vice President of the Polish Society for Cell Biology

Abstracts of the
BIO 2016 Congress
Wrocław, Poland
September 13th–16th 2016

Scientific Committee

Prof. Dariusz Rakus, PhD, DSc, University of Wroclaw
Prof. Jan Barciszewski, PhD, DSc, Institute of Bioorganic Chemistry, PAS, Poznań
Prof. Piotr Dobryszycki, PhD, DSc, Wroclaw University of Technology
Prof. Józef Dulak, PhD, DSc, Jagiellonian University, Kraków
Prof. Jerzy Duszyński, PhD, DSc, Nencki Institute of Experimental Biology PAS, Warsaw
Prof. Marek Figlerowicz, PhD, DSc, Institute of Bioorganic Chemistry, PAS, Poznań
Dr hab. Dagmara Jakimowicz, PhD, DSc, University of Wroclaw
Prof. Hanna Jańska, PhD, DSc, University of Wroclaw
Prof. Artur Jarchołowski, PhD, DSc, Adam Mickiewicz University, Poznań
Prof. Mariusz Jaskolski, PhD, DSc, Institute of Bioorganic Chemistry, PAS, Poznań
Prof. Jacek Jaworski, PhD, DSc, International Institute of Molecular and Cell Biology, Warsaw
Prof. Alicja Józkowicz, PhD, DSc, Jagiellonian University, Kraków
Prof. Grażyna Kłobus, PhD, DSc, University of Wroclaw
Prof. Igor Konieczny, PhD, DSc, ICM, Intercollegiate Faculty of Biotechnology University of Gdańsk and Medical University of Gdańsk
Prof. Małgorzata Kotulska, PhD, DSc, Wrocław University of Technology
Prof. Piotr Laidler, PhD, DSc, Jagiellonian University, Kraków
Prof. Marcin Łukaszewicz, PhD, DSc, University of Wroclaw
Prof. James McCubrey, PhD, DSc, East Carolina University, Greenville
Prof. Andrzej Ozyhar, PhD, DSc, Wroclaw University of Technology
Dr hab. Witold Rudnicki, PhD, DSc, ICM, University of Warsaw
Prof. Jerzy Silberring, PhD, DSc, AGH University of Science and Technology, Kraków
Dr Joanna Sułkowska, PhD, University of Warsaw
Prof. Jurgen Sygusch, PhD, DSc, Université de Montréal
Prof. Adam Szewczyk, PhD, DSc, Nencki Institute of Experimental Biology PAS, Warsaw
Prof. Jacek Wiśniewski, PhD, DSc, Max Planck Institute of Biochemistry, Martinsried
Prof. Przemysław Wojtaszek, PhD, DSc, Adam Mickiewicz University, Poznań
Prof. Lech Wojtczak, PhD, DSc, Nencki Institute of Experimental Biology PAS, Warsaw
Prof. Robert Wysocki, PhD, DSc, University of Wroclaw
Prof. Jolanta Zakrzewska-Czerwińska, PhD, DSc, University of Wroclaw
Dr hab. Anna Zawilak-Pawlak, PhD, DSc, Institute of Immunology and Experimental Therapy PAS, Wroclaw
Prof. Piotr Zielenkiewicz, PhD, DSc, Institute of Biochemistry and Biophysics PAS, Warsaw

**Abstracts of the
BIO 2016 Congress
Wrocław, Poland
September 13th–16th 2016**

Organizing Committee

Prof. Dariusz Rakus, PhD, DSc, University of Wroclaw
Prof. Piotr Dobryszycki, PhD, DSc, Wroclaw University of Technology
Dr hab. Agnieszka Gizak, PhD, DSc, University of Wroclaw
Dr hab. inż. Małgorzata Kotulska, PhD, DSc, Wroclaw University of Technology
Dr Agnieszka Sok-Grochowska, PhD, University of Wroclaw
Dr Joanna Sułkowska, PhD, University of Warsaw
Dr Dominika Drulis-Fajdasz, PhD, University of Wroclaw
Dr Magdalena Chmielewska, PhD, University of Wroclaw
Dr Ewa Słoma, PhD, University of Wroclaw
Dr Agnieszka Gomułkiewicz, PhD, Wroclaw Medical University
Dr Piotr Mamczur, PhD, University of Wroclaw
Dr Grzegorz Wiera, PhD, University of Wroclaw
Janusz Wiśniewski, Msc, University of Wroclaw
Alina Zawiślak, Msc, University of Wroclaw