

# CURRICULUM VITAE

Igor LACÍK, PhD, DSc

Director of Polymer Institute of the Slovak Academy of Sciences  
and Head of Department for Biomaterials Research  
ph/fax +421 2 3229 4308, cell phone +421 903789107, email [igor.lacik@savba.sk](mailto:igor.lacik@savba.sk)  
[www.polymer.sav.sk](http://www.polymer.sav.sk)  
<http://www.polymer.sav.sk/OVB>  
ORCID <http://orcid.org/0000-0001-6037-3747>

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Date and place of birth: 24.1.1962, Hnusta, Slovakia

## **Degrees**

2009 DSc (habilitation, research prof.), Slovak Academy of Sciences, Bratislava, Slovakia  
1986-1993 PhD, Polymer Institute of the Slovak Academy of Sciences, Bratislava, Slovakia  
1981-1986 Dipl-Eng, Slovak Technical University, Faculty of Chemical Technology, Bratislava, Slovakia

## **Employment History and Major Commitments**

2010 – present Director of Polymer Institute SAS, Bratislava, Slovakia  
2011– present Head of Dept. for Biomaterials Research, Polymer Institute SAS  
2002 – 2011 Head of Dept. of Special Polymers and Biopolymers, Polymer Institute SAS  
1996 – 2002 Research Scientist, Dept. of Composite Thermoplastics, Polymer Institute SAS  
1994 – 1996 Research Associate, Vanderbilt University, Nashville, TN, USA (24 months)  
1993 – 1994 Post-doctoral fellow, CNRS Inst C. Sadron, Strasbourg, France (12 months)  
1990 – 1991 Research assistant, Sydney University, School of Chemistry, Sydney, Australia (15 months)  
1987 – 1992 Graduate student, Polymer Institute SAS

## **Short-term visits, selected (2 weeks - 3 months)**

2017 Kyushu University, Fukuoka, Japan (visiting professor, Prof. Masaru Tanaka)  
2016 Shanghai University, China (visiting professor)  
2015 Jan Dlugosz University, Czestochowa, Poland (lecturer and visiting professor)  
2007 – 2016 University of Illinois at Chicago, IL, USA (Prof. J. Oberholzer)  
2011 Queens University, Kingston, Canada (Prof. R. A. Hutchinson)  
2006 University of Canterbury, Christchurch, NZ (Prof. G. T. Russell)  
2006 Sydney University, Australia (Prof. R. G. Gilbert)  
2005 Queens University, Kingston, Canada (Prof. R. A. Hutchinson)  
2003 EPFL Lausanne, Switzerland (Dr. Ch. Wandrey)  
1999 – 2016 Georg-August University in Göttingen, Germany (Prof. Dr. M. Buback)  
1999, 2000 Vanderbilt University, Nashville, TN, USA (Prof. T. G. Wang)

## **Main scientific interest:**

Synthesis and application of water-soluble polymers in macromolecular chemistry and related fields:

- Development of microcapsules, characterization and process for encapsulation of pancreatic islets in diabetes treatment
  - o around 40 CC publications, 2 book chapters, 2 US PTO patents
  - o PI of a number of national and international projects
  - o co-PI of the Chicago Diabetes Project: Global Cooperation for a Functional Cure led by Prof. Oberholzer (UIC Chicago) since 2007
  - o co-PI and PI of projects funded by Juvenile Diabetes Research Foundation 11/2014 – 10/2017 and 9/2017 – 8/2019 on preclinical validation of microcapsules in primate model
- Formulation of novel mechanism of radical polymerization of water soluble monomers in aqueous solutions
  - o around 40 CC publications
  - o long-term cooperation with Prof. M. Buback (Georg-August University in Göttingen), Prof. R. A. Hutchinson (Queens University, Kingston) and BASF SE Ludwigshafen (Germany)
- Hydrogels, biocompatible surfaces, new polymeric materials for biomedical and biotechnological applications (formulation, characterization, cell and protein immobilization)

### **Honors, selected**

2016	The Crystal Wing Laureate for medicine and science
2015	Award by the Slovak Academy of Sciences for popularization of science
2013	Award by the Literature fund for publication activity
2011	Principal Investigator of the team identified by the independent ranking agency as the Top Team of the Slovak Academy of Sciences
2010	Principal Investigator of the Scientific and Technical Team of the Year 2010 awarded by the Ministry of Education of the Slovak Republic
1994	NASA Evans/Gilruth Award (Houston, TX)

### **Membership and Committees, selected**

- Elected member of the Learned Society of the Slovak Academy of Sciences, since 2012, and the Board member, since 2017
- Elected titular member of the IUPAC Polymer Division
- Member IUPAC, Subcommittee “Modeling of Polymerization Kinetics and Processes”
- Member Bioencapsulation research group
- Member Slovak Chemical Society
- Elected member of the Slovak Committee for Scientific Degrees at the Ministry of Education of SR
- Member of the Scientific Board of the Faculty of Chemical and Food Technology of the Slovak Technical University, Bratislava, Slovakia
- Elected member of the Committee for the Scientific Degrees in Macromolecular Chemistry of Czech Republic
- Chair of the Board of Directors of the 2<sup>nd</sup> Section of the Slovak Academy of Sciences

### **Projects, selected**

**International:** Encapsulation consortium of the Juvenile Diabetes Research Foundation with UIC Chicago, USA, and NTNU Trondheim, Norway (2014-2017, co-PI and 2017-2019, PI), m-ERA.net on multifunctional neural electrodes with SSSA and Biorobotics Institute Pontedera (2014-2017, co-PI), BASF SE Ludwigshafen Germany (since 1999, PI); IP 6FP EU project P. Cezanne: Integration of Nano-Biology and ICT to Provide a Continuous Care and Implantable Monitoring System for Diabetic Patients (2006-

2011, responsible person for PI SAS as contractor); IUPAC project (2004-034-1-400) Critically evaluated propagation rate coefficients for free-radical polymerization of water-soluble monomers polymerized in the aqueous phase funded by IUPAC (2004-2007, PI); The Chicago Diabetes Project: A global cooperation for functional cure (since 2007, co-PI); EFSD New Horizon Collaboration (2011-2012, PI)

**National:** Slovak Research and Development Agency (since 2002 till present, around 250 000 Euro/3-4 years: 3 times PI, 4 times co-PI), Barloplastic Žilina s.r.o. (2005, consulting the PMMA-producing company), Slovak Scientific Grant Agency (3 times PI).

### **Scientific outcomes**

close to 120 publications (<http://orcid.org/0000-0001-6037-3747>)

4 chapters in books

ca 3000 SCI citations without self-citation, HI 32 (WoS)

2 US PTO patents

ca 200 presentations at international conferences

ca 100 presentations at national conferences

about 30 invited lectures at international conferences

ca 100 invited lectures at the universities abroad

ca 70 outcomes for lay public (TV, radio, internet, non-for-profit foundation related activities)

6 completed PhD students, currently 2