



Brief biographical note

Prof. Dr. Peter Dubruel is a polymer chemist from training. He obtained his licentiate degree in Chemistry at Ghent University in June 1998. After that, he started with a PhD on the development of cationic polymers as non-viral gene delivery systems under the supervision of Prof. Dr. E. Schacht. He obtained his PhD in January 2003. After that, he started with an initial post-doc on the surface modification of porous titanium implants for the treatment of large bone defects. From end 2003, he had a position as doctor-assistant at Ghent University. In 2005, he was awarded an Alexander Von Humboldt Fellowship to perform research at the Johannes Gutenberg University in Mainz under the supervision of Prof. J. Kirkpatrick. During this nine month research stay, he has been studying the *in vitro* biocompatibility of porous gelatin based hydrogels. After his return to Ghent University, he took up the position of doctor-assistant. End of 2006, he was appointed as Professor in the field of Polymer Chemistry and Biomaterials at Ghent University. Since then, in addition to the research activities, he is teaching several courses (organic chemistry, biomaterials, biomedical polymers, polymers for bio-inspired applications and polymer materials).

His professional and scientific activity comprises: papers published in scientific journals (38); book chapters/handbooks/textbooks (1); papers published in the proceedings of international or national conferences (over 50); reviewer for different journals and biomaterials conferences (over 20).

Name , salutation: Prof. Peter Dubruel

Current appointment:

Head of the Polymer Chemistry and Biomaterials Group
Department of Organic Chemistry
Faculty of Sciences
Ghent University, Belgium



Educational Background:

- PhD in Polymer Chemistry, Faculty of Sciences, Ghent University, 2003.
- Licentiate in Chemistry, Faculty of Sciences, Ghent University, June 1998.
Licentiate thesis: performed in the PMR Group (Prof. Dr. E. Schacht).

Experience:

- Head of the Polymer Chemistry and Biomaterials Group at Ghent University currently composed of 20 people.
- Spokesperson of the Young Scientist Forum of the European Society for Biomaterials since 2006.
- Organizer of the YSF events at the annual ESB meetings since 2005.
- member local organising committee ATSC (Advanced Techniques for Surface Characterisation, Gent, België, 17/09/1999
- co-organiser CERC3 brainstorming workshop "Functional Synthetic Polymers and Biopolymers", Vaalbeek, België, 02/10/2002-04/10/2002
- co-organiser Symposium on Functional Polymer Materials, Mol, Belgium, 07/10/2004-08/10/2004



4th International Conference "Biomaterials, Tissue Engineering & Medical Devices"



Research interest:

Research activity in the field of:

- Development of functional polymers for gene delivery
- Development of porous biodegradable polyesters using rapid prototyping
- Surface functionalization of polymeric scaffolds
- Development of porous hydrogels
- Surface modification of titanium scaffolds
- Development of biocompatible polymers for optical applications
- Development of biosensor surfaces

Present Areas of Research

The ongoing research work is characterized by the following keywords: functional polymers for biomedical and optical applications, surface modification, porous hydrogels and polyesters, Bioscaffolder, electrospinning

Title of your BIOMMEDD 2010 lecture:

Porous gelatin functionalized poly- ϵ -caprolacton scaffolds as cell-interactive materials.