Curriculum Vitae

Personal details

Prof. Dr. Ir. Richard Hoogenboom
Supramolecular Chemistry Group
Department of Organic and Macromolecular Chemistry
Ghent University
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E-mail: richard.hoogenboom@ugent.be; Website: www.sc.ugent.be
Born: March 3rd, 1978 in Rotterdam, The Netherlands
Citizenship: Dutch

Work experience

January 2018 – present
Founder of Avroxa BV to commercialize poly(2-oxazoline)s as Ultroxa®

October 2014 – present
Full professor at Ghent University

July 2010 – September 2014
Associate professor at Ghent University (research professorship)

September 2009 – June 2010
Senior postdoctoral researcher at the Radboud University Nijmegen (Veni-award; NWO) Institute for Molecules and Materials, Prof. Roeland Nolte

September 2008 – August 2009
Alexander von Humboldt postdoctoral fellow at the RWTH Aachen
DWI, Prof. Martin Möller

July 2007 – August 2008 (0.3 fte)
Senior product developer at Dolphys Medical BV

November 2005 – August 2008 (0.7 fte since July 2007)
Project leader for the Dutch Polymer Institute Prof. U.S. Schubert

Education

November 2001 – November 2005
PhD degree in organic and polymer chemistry
Prof. U. S. Schubert, Eindhoven University of Technology, The Netherlands.

September 1996 – October 2001
MSc degree in chemistry and chemical engineering
Chemistry and Chemical Engineering, Eindhoven University of Technology
Master thesis with Prof. E. (Bert) W. Meijer
Erasmus grant for a 3-Month research project at the University of Cambridge, UK, with Prof. Andrew B. Holmes.

Academic achievements

- >450 refereed scientific publications; > 300 as senior corresponding author; > 23,500 citations; h-index of 70; 23 patent applications (9 granted, 14 filed; several license deals with companies, including GATT Patch from GATT Technologies); 22 book chapters; 1 book edited
- (Co)promotor for 22 postdocs, 40 PhD theses and 38 Master theses
- > 10 plenary lectures at conferences with multiple parallel sessions; > 75 invited lectures at international conferences, > 25 invited lectures at advanced schools
- Editor-in-chief for *European Polymer Journal* since 07/2019 (since 01/2013 as associate editor) and associate editor for *Australian Journal of Chemistry* since 01/2012.
- Member of the editorial boards of *Chem (Cell Press)*, *Macromolecules*, *Polym. Chem.*, *Macromol. Rapid Commun.* and *Mater. Today Chem.*, amongst others.
- Organizer of four symposia on *Poly(2-oxazoline)s and pseudo-polypeptides* at the ACS National meetings and the Ionic Polymerizations 2022 (IP'22 in Ghent).
- Regular reviewer (1 to 2 per week; ~70 per year) for > 50 international journals, including *Nature*, *Nat.Chem.*, *Nat. Mater.*, *Nat.Nanotechnol.*, *Sci. Adv. Angew. Chem.* and *JACS*.
- Elected panel member for ERC starting grants (2017, 2019 & 2021), FWO Flanders (2013-2019), FCT in Portugal (2015, 2020, 2021, 2022) and the IRC in Ireland (2017, 2018, 2022).
- Attracted ~ 5 million euro of research funds in the past 5 years via competitive schemes, including EU (ITN, H2020, Interreg) and FWO projects.
- Elected fellow of the Young Academy of Europe, Royal Society of Chemistry (UK) and ACS POLY division (USA).

Awards

- ACS Carl S. Marvel award for creative polymer chemistry (2021)
- ACS Macromolecules/Biomacromolecules young investigator award (2017)
- Prometheus Award for Research from Ghent University (2016)
- 5th Polymer International IUPAC young investigator award (2016)
- Inaugural 2015 Polymer Chemistry Lectureship award from the royal society of chemistry

Selected recent publications (full list at http://www.researcherid.com/rid/B-8977-2008):

1. X. Xu. F. A. Jerca, **V. V. Jerca,* R. Hoogenboom*** Covalent Poly(2-Isopropenyl-2-Oxazoline) Hydrogels with Ultrahigh Mechanical Strength and Toughness through Secondary Terpyridine Metal-Coordination Crosslinks, ***Adv. Funct. Mater.*** 2019, *29*, 1904886. IF[2018] 15.6
2. O. Sedlacek, K. Lava, B. Verbraeken, S. Kasmi, B. G. De Geest, **R. Hoogenboom*** Unexpected Reactivity Switch in the Statistical Copolymerization of 2-Oxazolines and 2-Oxazines Enabling the One-Step Synthesis of Amphiphilic Gradient Copolymers. ***J. Am. Chem. Soc.*** 2019, 141, 9617−9622. IF[2018] 14.7
3. B. Verbraeken, J. Hullaert, J. van Guyse, K. Van Hecke, **J. Winne**,*** R. Hoogenboom*** The elusive seven-membered cyclic imino ether tetrahydrooxazepine. ***J. Am. Chem. Soc.*** 2018, *140*, 17404. IF[2018] 14.7
4. **B. D. Monnery**,***** V. V. Jerca, O. Sedlacek, B. Verbraeken, R. Cavill, **R. Hoogenboom*** Defined High Molar Mass Poly(2-Oxazoline)s. ***Angew Chem. Int. Ed.*** 2018, *57*, 15400. IF[2018] 12.3
5. L. De Smet, G. Vancoillie, P. Minshall, K. Lava, I. Steyaert, E. Schoolaert, E. Van De Walle, P. Dubruel, K. De Clerck, **R. Hoogenboom*** Plasma dye coating as straightforward and widely applicable procedure for dye immobilization on polymeric materials. ***Nat. Commun.*** 2018, *9*, 1123. IF[2018] 11.9
6. **P. H. J. Kouwer**, M. Koepf, V. A.A. Le Sage, M. Jaspers, A. M. van Buul, Z. H. Eksteen-Akeroyd, T. Woltinge, E. Schwartz, H. J. Kitto, R. Hoogenboom, S.J. Picken, R.J.M. Nolte, E. Mendes, **A. E. Rowan** Responsive biomimetic networks from polyisocyanopeptide hydrogels. ***Nature*** 2013, 493, 651. IF[2013] 42.3