

Curriculum Vitae

Personal details

Prof. Dr. Ir. Richard Hoogenboom

Supramolecular Chemistry Group

Department of Organic and Macromolecular Chemistry

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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

- > 550 refereed scientific publications; > 350 as senior corresponding author; > 27,000 citations; h-index of 75; 25 patent applications (10 granted, 15 filed; several license deals with companies, including GATT Patch from GATT Technologies); 22 book chapters; 1 book edited
- (Co)promotor for 29 postdocs, 45 PhD theses and 44 Master theses
- > 12 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 Ionic Polymerizations 2022 (IP'22 in Ghent) and four symposia on *Poly(2-oxazoline)s and pseudo-polypeptides* at the ACS National meetings.
- 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 and the Royal Society of Chemistry (UK).

Awards

- SPSI 3rd Dr. Sivaram endorsement lecture award (2022)
- ACS POLY Fellows award (2022)
- 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 publications (full list www.researchgate.net/profile/Hoogenboom-Richard/research):

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. IF²⁰¹⁸ 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. IF²⁰¹⁸ 14.7
3. **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. IF²⁰¹⁸ 12.3
4. 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. IF²⁰¹⁸ 11.9
5. **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. IF²⁰¹³ 42.3