

## Curriculum Vitae Robert Luxenhofer

### PERSONAL INFORMATION

Prof. Dr. rer. nat. Robert Luxenhofer

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[www.luxenhofer.com](http://www.luxenhofer.com)

#### • EDUCATION

- 2007 Dr. rer. nat. (PhD), summa cum laude, supervisor: Dr. Rainer Jordan  
Department of Chemistry, Technische Universität München, Germany
- 2004 Dipl. Chem. Univ. (eq. to Master of Science), supervisor: Prof. Oskar Nuyken  
Department of Chemistry, Technische Universität München, Germany

#### • CURRENT POSITION

- 2012- W2 (tenured) Professor for Functional Polymer Materials (eq. to Associate Professor),  
Department of Chemistry and Pharmacy, University Würzburg, Germany

#### • PREVIOUS POSITIONS

- 2012 Research Associate (with Prof. Rainer Jordan)  
Department Chemistry and Food Chemistry, Technische Universität Dresden,  
Germany
- 2008 Research Associate (with Prof. Alexander V. Kabanov)  
University of Nebraska Medical Center, College of Pharmacy, Omaha, Nebraska,  
USA
- 2008 Research Associate (supervision Dr. Rainer Jordan)  
Department of Chemistry, Technische Universität München, Germany

#### • FELLOWSHIPS AND AWARDS

- 2015 University-Support Award of the local board of commerce (IHK Mainfranken)
- 2009-2011 KAUST Research Fellow at the Department Chemistry and Food Chemistry,  
Technische Universität Dresden, Germany. Fellowship by the King Abdullah  
University of Science and Technology, Saudi Arabia (I was the only German fellow,  
and one out of a few Europeans).
- 2008 Best Poster Award at NanoDDS 08, Toronto, Canada
- 2007-2008 DAAD (German Academic Exchange Service) Postdoctoral Scholarship at the  
University of Nebraska Medical Center, College of Pharmacy, Omaha, Nebraska,  
USA
- 2007 Best Poster Award at International Symposium for Polymer Therapeutics, Berlin,  
Germany
- 2003/2004 Scholarship of Nicolaus-Fonds
- 2002/2003 Scholarship of United Fonds of the Technische Universität München
- 2002 Scholarship of the Johann Konen Foundation
- 2000 Oskar-Karl-Forster Scholarship

#### • SUPERVISION OF GRADUATE STUDENTS

- 2012- Supervision of 3 postdoctoral researchers, 14 PhD, 20 Master and 40 Bachelor Theses  
Department of Chemistry and Pharmacy, Julius-Maximilians University Würzburg,  
Germany
- 2009-2012 Supervision of 1 PhD and 5 Master Theses  
Department Chemistry and Food Chemistry, Technische Universität Dresden,  
Germany
- 2004-2007 Supervision of 3 Master Theses  
Department Chemistry, Technische Universität München, Germany

- **TEACHING ACTIVITIES**

- 2015- Teaching various lectures in different summer schools at the Johannes Gutenberg University Mainz and Julius-Maximilians University Würzburg
- 2015 Visiting professor, TU Breslau, Poland
- 2012- Associate Professor – Participation in lectures: “Polymers I” (5 ECTS), “Polymers II” (5 ECTS) including labcourses, “Nano4Med” (5ECTS) and “Polymer Materials II” (5 ECTS) and “Biofabrication” (5 ECTS).
- 2009-2012 Habilitand – Lecture: “Polymers in Medicine” (5 ECST, MSc.); Design and supervision of labcourses: “Macromolecular Chemistry” and “Recent Topics in Macromolecular Science” (BSc. and MSc.)
- 2004-2007 PhD student – supervision of labcourses in Technical, Organic and Macromolecular Chemistry, taken by “Hauptdiplom” students (eq. Master level)

- **ORGANISATION OF SCIENTIFIC MEETINGS**

- 2017 Member of the local organization committee, Annual meeting of the German Association for Biomaterials, November 9-11, Würzburg, Germany.
- 2015 Session organizer “Design of drug nanocarriers”; The World Congress on New Technologies, July 15 – 17, 2015, Barcelona, Spain.
- 2014 Co-Organizer, Interdisciplinary workshop “Quo Vadis, Nanomedicine”, April 10 – 11, 2014, Exeter, UK.
- 2014 Member, Scientific Advisory Board, International Symposium for Polymer Therapeutics 2014, Valencia, Spain.
- 2013 Co-Organiser, Session “Nanomedicine” Brazilian-Germany Frontiers in Science and Technology Symposium, September 12 – 15, 2013, Alexander von Humboldt Foundation, Potsdam, Germany

- **REVIEWER AND COMMISSIONS OF TRUST**

- 2019- Member of the board: Wilhelm Conrad Röntgen Research Center for Complex Materials Systems
- 2019- Reviewer for the Austrian Academy of Science and Helmholtz Gesellschaft
- 2018- Scientific Expert, European Commission
- 2017- Member International Advisory Board of *Macromolecular Bioscience*
- 2017 Scientific Evaluation, Interdisciplinary Centre for Clinical Research, University Clinic Würzburg
- 2017 Scientific Evaluation, Graduate School for Life Science, University Würzburg
- 2016 Reviewer for US Army Research Office, Interdisciplinary Center for Clinical Research (University Würzburg), Einstein-Stiftung Berlin
- 2015- Member, Board of Trustees, SKZ German Plastics Center
- 2015- Member, Board of Musculoskeletal Center Würzburg
- 2015- Adjunct Member of Center for Nanotechnology in Drug Delivery, University of North Carolina at Chapel Hill
- 2015- Member German Platform NanoBioMedicine
- 2014- Member, Scientific Advisory Board, International Symposium for Polymer Therapeutics 2014 and 2016, Valencia, Spain.
- 2014 Reviewer for the Alexander von Humboldt Foundation
- 2014 Reviewer for the German Academic Exchange Service (DAAD)
- 2011- Reviewer for the Czech (GA CR), Austrian (FWF), Dutch (NWO), Israel (ISF) and German (DFG) research foundation
- 2013-2017 Member Editorial Board, BioMed Research International, Hindawi Publishing
- 2012-2013 Member Editorial Board, ISRN Biomaterials, Hindawi Publishing
- 2009- Reviewer for  $\geq 39$  journals, e.g. ACS nano, Advanced Materials, Angewandte Chemie, Biomaterials, Journal of Controlled Release, Chemical Communications, Journal of Materials Chemistry B, Macromolecules, Biomacromolecules, Journal of Biomedical Nanotechnology, Polymer Chemistry (selection, see <https://publons.com/author/716265/>)

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

- 2019- Bavarian Polymer Institute
- 2013- Deutsche Gesellschaft für Biomaterialien (German Biomaterials Society)
- 2013- North Bavarian Biomaterials Alliance
- 2012- Deutscher Hochschulverband (German Association of University Professors and Lecturers)
- 2012- Associate Member, Center for Nanosystems Chemistry, Universität Würzburg, Germany
- 2011 Vice-Chair of the Nanosynthesis and Nanoformulations working group of the Alliance for Nanotechnology in Cancer (NCI/NIH)
- 2006-2012 American Chemical Society
- 2003- Gesellschaft Deutscher Chemiker (Association of German Chemists)

- **PUBLICATIONS**

<http://scholar.google.com/citations?user=ZKfFawQAAAAJ&hl=en>

h-index: 34 (per May 2019)

# citations: 3622;  $\approx$  84% non-self-citations (per May 2019)

average citations per peer-reviewed article: 57 (per May 2019)

List of 10 selected primary research papers (out of 63)

- M. M. Lübtow, L. Nelke, A. Brown, G. Sahay, G. Dandekar, **R. Luxenhofer**, *J. Control. Release* **2019**, *in print*, DOI: 10.1016/j.jconrel.2019.04.014. ChemRxiv, DOI: 10.26434/chemrxiv.5661736.
- M. M. Lübtow, L. Hahn, M.S. Haider, **R. Luxenhofer**, *J. Am. Chem. Soc.* **2017**, *139*, 10980-10983.
- T. Lorson, S. Jaksch, M. M. Lübtow, T. Jüngst, J. Groll, T. Lühmann, R. Luxenhofer, *Biomacromolecules* **2017**, *18*, 2161-2171.
- Z. He, A. Schulz, X. Wan, J. Seitz, H. Bludau, D.Y. Alakhova, D. Darr, C.M. Perou, R. Jordan, I. Ojima, **R. Luxenhofer**, A.V. Kabanov, *J. Control. Release* **2015**, *208*, 67-75.
- A. Schulz, S. Jaksch, R. Schubel, E. Wegener, Z. Di, A. Meister, J. Kreßler, A. V. Kabanov, **R. Luxenhofer**, C. M. Papadakis, R. Jordan, *ACS Nano* **2014** *8*, 2686-2696.
- J. Ulbricht, R. Jordan, **R. Luxenhofer\***, On the biodegradability of Polyethylene glycol, Polypeptoids and Poly(2-oxazoline)s. *Biomaterials* **2014**, *35*, 4848-4861.
- **R. Luxenhofer\***, G. Sahay A. Schulz, D. Alakhova, R. Jordan, A. V. Kabanov, Structure-property relationship in cytotoxicity and cell uptake of poly(2-oxazoline) amphiphiles. *J. Control. Release* **2011**, *153*, 73-82.
- C. Fetsch, A. Großmann, L. Holz, J.F. Nawroth, **R. Luxenhofer\***, Polypeptoids from N-Substituted Glycine N-Carboxyanhydrides: Hydrophilic, Hydrophobic, and Amphiphilic Polymers with Poisson Distribution. *Macromolecules*, **2011**, *44*, 6746-6758.
- **R. Luxenhofer\***, A. Schulz, C. Roques, S. Li, T.K. Bronich, E.V. Batrakova, R. Jordan, A.V. Kabanov, Doubly amphiphilic poly(2-oxazoline)s as high-capacity delivery systems for hydrophobic drugs. *Biomaterials*, **2010**, *31*, 4972-4979.
- F.C. Gaertner, **R. Luxenhofer** (co-first), B. Blechert, R. Jordan, M. Essler, Synthesis, biodistribution and excretion of radiolabeled poly(2-alkyl-2-oxazoline)s. *J. Control. Release*, **2007**, *119*, 291-300.
- **R. Luxenhofer**, R. Jordan, Click chemistry with poly (2-oxazoline)s. *Macromolecules*, **2006**, *39*, 3509-3516.

### **Invited lectures at international research conferences** (selected out of total >50 oral contributions)

- ACS National Meeting 2018, March 31- April 4, Orlando 2018, US
- Advanced Functional Polymers for Medicine 2018, May 15-18, Montpellier, France
- ACS National Meeting 2016, August 21-25, Philadelphia, US.
- 11th International Symposium on Polymer Therapeutics 2016, May 23-25, Valencia, Spain
- European Polymer Congress 2015, June 21-26, Dresden, Germany (Keynote lecture)
- Young European Scientists workshop 2014, September 7 – 11, 2014, Łódz, Poland.
- ACS national meeting, August 10 – 14, 2014, San Francisco, USA.
- World Drug Delivery Summit, February 17 – 19, 2014, Berlin, Germany.
- 12th International Polymers for Advanced Technologies Conference 2013, September 29 – October 2, Berlin, Germany.
- Bilateral Supramolecular Chemistry Symposium, April 21 – 24, 2013, Beijing, P.R. China.
- Dresden Polymer Discussions, April 1 – 4, 2012, Meißen, Germany.
- ACS national meeting, March 25 – 29, 2012, San Diego, USA.
- 8th NanoDDS, October 3 – 5, 2010, Omaha, USA.
- Dresden Polymer Discussions 2010, April 18-21, Meißen, Germany

### **Oral contributions at international research conferences** (selection)

- ACS National Meeting 2016, August 21-25, Philadelphia, US.
- Makromolekulares Kolloquium Freiburg 2016, February 24-26, Freiburg, Germany.
- Interdisciplinary Workshop: Quo Vadis, Nanomedicine? 2015 April 10-11, Exeter, UK (co-organizer)
- IUPAC 10th International Conference on Advanced Polymers via Macromolecular Engineering, August 18-22, 2013, Durham, UK.
- European Polymer Foundation meeting 2013, June 16-21, Pisa, Italy.
- Discovery Chemistry Congress 2012, March 13-14, Munich, Germany.
- 8th International Symposium on Polymer Therapeutics 2010, May 24-26, Valencia, Spain.
- IUPAC 8th International Conference on Advanced Polymers via Macromolecular Engineering, October 4-7, 2009, Dresden, Germany.
- 7th International Symposium on Polymer Therapeutics, January 19-21, 2007, Berlin, Germany.
- ACS national meeting, September 10-14, 2006, San Francisco, USA.
- Young European Scientists Meeting 2005, September 14-18, 2005, Cracow, Poland.
- IUPAC 8th Conference on Macromolecules: 'Polymers for Africa', June 6-9, 2005, Flic en Flac, Mauritius.

### **Patents and patent applications**

[4] R. Luxenhofer, M. Lübtow, EP 17176886

[3] R. Luxenhofer, T. Lorson, PCT/EP2017/062982

[2] R. Luxenhofer, DE 10 2011 076 586.7

[1] A. V. Kabanov, R. Jordan, R. Luxenhofer, PCT/EP2009/004655.

Patents granted:

A. V. Kabanov, R. Jordan, R. Luxenhofer, RU 2523714

A. V. Kabanov, R. Jordan, R. Luxenhofer, JP 5671457

A. V. Kabanov, R. Jordan, R. Luxenhofer, US 9402908

A. V. Kabanov, R. Jordan, R. Luxenhofer, CN 102215874

A. V. Kabanov, R. Jordan, R. Luxenhofer, EP 2313115