

CURRICULUM VITAE

PERSONAL DATA

Name Prof. Dr.-Ing. Laura De Laporte
Date/Place of Birth 03.12.1980, Gent, Belgium
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WORK EXPERIENCE

09/2018 – current W2 Professor, Teaching and Research Area ‘Polymeric Biomaterials’, Chemistry Department RWTH, joined appointment with DWI and Institute of Applied Medical Engineering, Aachen, DE
03/2019 – current Fellow of the Max Planck School – Matter to Life
09/2021 – current Steering Committee DFG Graduate School ‘Mechanobiology in Epithelial 3D Tissue Constructs’, RWTH Aachen
09/2021 – current Board Member ‘International Society for Biofabrication’
09/2021 – current Advisory Board Member EU FET Open Project ‘ENLIGHT’ (UMC Utrecht)
10/2020 – 10/2021 Associated Editor ‘ACS Applied Materials and Interfaces’
10/2013 – 08/2018 Group leader at DWI-Leibniz Institute for Interactive Materials, Aachen, DE
07/2009 – 09/2012 Postdoctoral Research, Laboratory of Prof. Jeffrey Hubbell, Life Sciences – Ecole Polytechnique Fédérale de Lausanne, Switzerland
09/2003 – 08/2004 Research assistant, Laboratory of Prof. Lonnie Shea, Department of Chemical and Biological Engineering – Northwestern University (NU), Evanston, US

EDUCATION

10/2017 Privatdozentin RWTH - Chemie
09/2004 – 06/2009 PhD, Department of Chemical and Biological Engineering – NU, Evanston, US; *Multiple channel bridges with the ability for DNA and protein delivery for spinal cord regeneration* Promoter: Prof. Lonnie Shea - GPA: 4.0/4.0
09/1998 – 06/2003 Bachelor and Masters in Chemical Engineering – Ghent University, BE; *Great Distinction*

GRANTS

01/2022 – 12/2026 Werner Siemens Foundation: TriggerINK: 4D in vivo printing for functional tissue repair (9,921,562 €), joined grant with Prof. Andreas Herrmann, Prof. Stefan Hecht, and Prof. Matthias Wessling
10/2021 – 09/2025 New Frontiers in Research Funds (NFRF) Transformations: Mend the Gap (1,900,000 CAD)
08/2021 – 07/2024 DFG: Light responsive hydrogels to understand mechanotransduction in cardiac infarctions and muscular dystrophy (230,050 €)
08/2021 – 07/2022 ERS RWTH Seed fund: Cell-mimicking Microgels to Model Retinal Epithelium Ageing with Jacopo di Russo (20,300 €)
08/2021 – 02/2023 EU: European Research Council Proof of Concept (POC) BioArchitecture (150,000 €)
07/2021 – 06/2024 DFG: CRU5011: Integrating emerging methods to advance translation-al kidney research (InteraKD), P1: Development of high-throughput platforms for human kidney disease modeling (217,840 €)
10/2020 – 12/2021 ERS RWTH Seed fund: Casein microparticles for sustained drug delivery in regenerative materials (10,800 €)

09/2020 – 08/2023	DFG: Rapid prototyped microfluidic systems for synthesizing and screening of microgel capsules as growth factor delivery systems for angiogenesis (199,650 €)
07/2020 – 06/2024	DFG: CRC985 Functional microgels and microgel systems B5: Anisometric microgels to construct 3D responsive macroporous matrices to direct and mechanically trigger cells (334,800 €)
07/2020 – 06/2024	DFG: CRC985 Functional microgels and microgel systems C9: Gene regulation enabled by ferro-microgels (334,800 €)
07/2020 – 10/2022	IGF: Apartex: Electrospun bi-layer anti-adhesion hydrogel fiber mat to prevent post-operative adhesion (236,190 €)
01/2020 – 12/2022	EU: Research and Innovation SC1-BHC-07-2019 OrganTrans (532,725 €)
11/2019 – 10/2020	ERS RWTH Seed fund: Actuating hydrogel to mechanically direct stem cell fate, with Sabine Neuss-Stein (67,200 €)
01/2020 – 12/2021	ERS Prep Fund Project – Life Science: Magnetic field-assisted bioprinting for the fabrication of three-dimensional <i>in vitro</i> tissue models (195,000 €)
08/2019 – 12/2020	EU: European Research Council Proof of Concept (POC) PeriGO (150,000 €)
07/2019 – 12/2023	DFG: RTG2415: Mechanobiology in Epithelial 3D Tissue Constructs (ME3T) (235,000 €)
06/2018 – 05/2023	Leibniz-Wettbewerb: Professorinnenprogramm (1,667,843 €)
06/2018 – 05/2021	Abel: Development of organspacer to reduce side effects of radiation therapy during prostate cancer (Leitmarkt Agentur NRW: Neue Werkstoffe) (380,831 €)
03/2015 – 02/2021	EU: European Research Council (ERC) Starting Grant ANISOGEL, 637853 (1,435,396 €)
06/2016 – 05/2020	DFG: CRC985 Functional microgels and microgel systems, B5: Continuous fabrication of rod-shaped microgels to investigate their structural assembly (253,300 €)
01/2015 – 12/2018	EU: Marie Skłodowska-Curie Innovative Training Networks BIOGEL, 642687 (747,650 €, part for my research group)
07/2015 – 11/2018	DFG: Nachwuchsakademie MatWerk (350,500 €)
01/2016 – 12/2016	RWTH: Seed fund project in collaboration with Prof. Angelika Lampert, University Hospital Aachen (27,500 €)
11/2015 – 05/2017	RWTH: Umbrella project in collaboration with Prof. Avi Schroeder, Technion University, Israel (15,000 €)
04/2014 – 05/2016	DFG: CRC985 Functional microgels and microgel systems, ramp-up project (51,000 €)

PUBLICATIONS **Authors contributed equally.*

1. Jung S-H, Bulut S, Guerzoni LPB, Günther D, Braun S, **De Laporte L**, Pich A. Fabrication of pH-degradable supramolecular microgels with tunable size and shape via droplet-based microfluidics. *Journal of Colloid and Interface Science* 2022, Accepted
2. Rommel D, Mork M, Vedaraman S, Bastard C, Guerzoni LPB, Kayku Y, Vinokur R, Born N, Haraszti T, **De Laporte L**. Functionalized microgel rods crosslinked into soft macroporous structures for 3D cell culture. *Advanced Sciences* 2022, Online
3. Kittel Y, Kuehne AJC*, **De Laporte L***. Translating therapeutic microgels into clinical applications. *Advanced Healthcare Materials* 2021, e2101989
4. De Keer L, Cavalli F, Estupiñán D, Krüger AJD, Rocha S, Van Steenberge PHM, Reyniers M-F, **De Laporte L**, Hofkens J, Barner L, D'hooge DR. Synergy of advanced experimental and modeling tools to underpin the synthesis of static step-growth-based networks involving polymeric precursor building blocks. *Macromolecules* 2021, 54: 9280-98
5. Vedaraman S, Perez-Tirado A, Gerardo-Nava J, Haraszti T, Nishiguchi A, **De Laporte L**. Anisometric microstructures to determine minimal critical physical cues required for neurite alignment. *Adv. Healthcare Materials* 2021, e2100874

6. Babu S, Albertine F, Omidinia-Anarkoli A, **De Laporte L**. Controlling structure with injectable biomaterials to better mimic tissue heterogeneity and anisotropy. *Advanced Healthcare Materials* 2021, 10: e2002221
7. Vedaraman S, Licht JC, Bernhagen D, Timmerman P, **De Laporte L**. Bicyclic RGD peptides enhance nerve growth in synthetic PEG-based Anisogels. *Biomaterials Science* 2021, 9: 4329-42
8. Nothdurft K, Muller DH, Murtz S, Meyer AA, Brands T, Guerzoni LPB, Jahns A, Kuehne AJC, **De Laporte L**, Bardow A, Vedaraman S, Richtering W. Dynamics of the cononsolvency-induced collapse of pNIPAM microgels: A two-step process? *The Journal of Physical Chemistry B* 2021, 125:1503-12
9. Duarto Campos D, **De Laporte L**. Digitally fabricated and naturally augmented in vitro tissues. *Advanced Healthcare Materials* 2021, 10: e2001253
10. Lücken A, Linkhorst J, Fröhlingsdorf R, Lippert L, Rommel D, **De Laporte L**, Wessling M. Unravelling colloid filter cake motions in membrane cleaning procedures. *Scientific Reports* 2020, 10: 20043
11. Gehlen DB, Juergens N, George J, Walther A, Ye, **De Laporte L**. Granular cellulose nanofibril hydrogel scaffolds for 3D cell cultivation. *Macromolecular Rapid Communications* 2020, 41: e2000191
12. Rose JC, Gehlen D, Omidinia Anarkoli A, Fölster M, Haraszti T, Jaekel E, **De Laporte L**. How much physical guidance is needed to orient growing axons in 3D hydrogels? *Advanced Healthcare Materials* 2020, 21: e2000886
13. Omidinia Anarkoli A, Ephraim J, Rimal R, **De Laporte L**. Influencing linear neurite extension via hierarchical fibrous guiding cues at different scales. *Acta Biomaterialia* 2020, 113: 350-9
14. Krüger M, Oosterhoff LA, van Wolferen ME, Schiele SA, Walther A, Geijssen N, **De Laporte L**, van der Laan LJW, Kock LM, Spee B. Cellulose Nanofibril Hydrogel Promotes Hepatic Differentiation of Human Liver Organoids. *Adv. Healthc. Mater.* 2020, e1901658
15. Wolff HJM, Linkhorst J, Göttlich T, Savinsky J, Krüger AJD, **De Laporte L**, Wessling M. Soft Temperature-Responsive Microgels of Complex Shape in Stop-Flow-Lithography. *Lab on a Chip* 2020, 20: 285
16. Rose JC, Fölster M, Kivilip L, Gerardo-Nava JL, Jaekel EE, Gehlen DB, Rohlf W*, **De Laporte L***. Predicting the orientation of magnetic microgel rods for soft anisotropic biomimetic hydrogels. *Polymer Chemistry* 2020, 11: 496
17. Jans A, Lölsberg J, Omidinia-Anarkoli A, Viermann R, Möller M, **De Laporte L**, Wessling M, Kühne AJC. High-throughput production of micrometer sized double emulsions and microgel capsules in parallelized 3D printed microfluidic devices. *Polymers* 2019, 15: E1887
18. Krüger AJK*, Bakirman O*, Guerzoni LPB, Jans A, Gehlen DB, Rommel D, Haraszti T, Kuehne AJC, **De Laporte L**. Compartmentalized jet polymerization as high resolution process to continuously produce anisometric microgel rods with adjustable size and stiffness. *Adv Mater.* 2019, e1903668
19. Gehlen DB, De Lencastre Novaes LC, Long W, Joelle Ruff A, Jakob F, Haraszti T, Liangliang Y, Schwaneberg U, **De Laporte L**. Rapid and robust coating method to render polydimethylsiloxane surfaces cell adhesive. *ACS Appl Mater Interfaces* 2019, 11: 41091
20. Licht CJ, Rose CJ, Omidinia-Anarkoli A, Blondel D, Roccio M, Haraszti T, Hubbell JA, Lutolf M, **De Laporte L**. Synthetic 3D PEG-Anisogels tailored with fibronectin fragments induce aligned nerve extension. *Biomacromolecules* 2019, 20: 4075
21. Chandorkar Y, Castro Nava A, Schweizerhof S, van Dongen M, Haraszti T, Köhler J, Zhang H, Windoffer R, Mourran A, Möller M, **De Laporte L**. Cellular responses to beating hydrogels to investigate mechanotransduction. *Nat Commun.* 2019, 10: 4027
22. Guerzoni LPB, Tsukamoto Y, Akashi M, **De Laporte L**. A Layer-by-layer single-cell coating technique to produce injectable mini heart tissues via microfluidics. *Biomacromolecules.* 2019, 20(10): 3746
23. Dietrich D, Licht CJ, **De Laporte L**, Janiak C. Metallo- and aerogels based on a bisamide tetracarboxyl ligand for carbon dioxide, sulfur dioxide and selective dye uptake. *ACS Appl Mater Interfaces* 2019, 11: 19654
24. Guerzoni LPB, Jans A, Gehlen DB, Rose J, Haraszti T, Wessling M, Kuehne AJC, **De Laporte L**. Cell encapsulation in soft, anisometric poly(ethylene) glycol microgels using a novel radical-free microfluidic system. *Small* 2019, 15: e1900692

25. Omidinia-Anarkoli A, Rimal R, Chandorkar Y, Gehlen D, Rose J, Rahimi K, **De Laporte L**. Solvent induced nanotopographies of single microfibers regulate cell mechanotransduction. *ACS Appl Mater Interfaces* 2019, 11: 7671
26. Krüger M, Spee B, Walther A, **De Laporte L**, Kock LM. Nanofibrillar cellulose as an enzymatically and flow driven degradable scaffold for 3D tissue engineering. *ASME J of Medical Diagnostics* 2019, 2: 041001
27. Krüger AJK, Köhler J, Rose J, Gehlen DB, Haraszti T, Möller M, **De Laporte L**. A new radical free temperature controlled gelation mechanism of star-shaped poly(EO-*stat*-PO) compounds to form tailored microgel rods with controlled stiffness and self-assembly behavior. *Chem Commun.* 2018, 54: 6943
28. Repenko T, Rix A, Haehnle B, Lederle W, **De Laporte L**, Kuehne AJC. A water-soluble PEGylated RGD-functionalized bisbithiophenyl diketopyrrolopyrrole as a photoacoustic sonophore. *Photochem Photobiol Sci.* 2018, 17: 617
29. Goetzke R, Sechi A*, **De Laporte L***, Neuss S*, Wagner W*. Why the impact of mechanical stimuli on stem cells remains a challenge. *Review paper Cellular and molecular life sciences* 2018, 7: 3297
30. Rose JC, Gehlen DB, Haraszti T, Köhler J, Licht CJ, **De Laporte L**. Biofunctionalized aligned microgels to provide 3D cell guidance to mimic complex tissue matrices. *Biomaterials*, 2018, 163: 128
31. Rose J, **De Laporte L**. Hierarchical design of tissue regenerative constructs. *Review paper. Adv Healthc Mater.* 2018, 7: e1701067
32. Repenko T, Rix A, Nedilkoc A, Rose J, Hermann A, Vinokur R, Moli S, Cao-Miländ R, von Plessen G, König TAF, Fery A, **De Laporte L**, Lederle W, Chigrina DN, Kuehne AJC. Strong photoacoustic signal enhancement by coating gold nanoparticles with melanin for biomedical imaging. *Adv Funct Mater.* 2018, 28: 1705607
33. Omidinia-Anarkoli A, Boesveld S, Tuvshindorj U, Rose J, Haraszti T, **De Laporte L**. An injectable hybrid hydrogel with oriented short fibers induces unidirectional growth of functional nerve cells. *Small* 2017, 13: 1702207
34. Guerzoni LPB, Bohl J, Jans A, Rose JC, Köhler J, Kuehne AJC, **De Laporte L**. Microfluidic fabrication of polyethylene glycol microgel capsules with tailored properties for the delivery of biomolecules. *Biomaterials Science.* 2017, 5: 1549
35. Bernhagen D, **De Laporte L**, Timmerman P. High-affinity RGD-knottin peptide as a new tool for rapid evaluation of the binding strength of unlabeled RGD-peptides to $\alpha_v\beta_3$, $\alpha_v\beta_5$, and $\alpha_5\beta_1$ integrin receptors. *Analytical Chemistry* 2017, 89: 5991
36. Rose J, Cámara-Torres M, Rahimi K, Köhler J, Möller M, **De Laporte L**. Nerve cells decide to orient inside an injectable hydrogel with minimal structural guidance. *Nano Letters*, 2017, 17: 3782
37. Torres-Rendon JG, Köpf M, Gehlen D, Blaeser A, Fisher H, **De Laporte L**, Walther A. Cellulose nanofibril hydrogel tubes as sacrificial templates for freestanding tubular cell constructs. *Biomacromolecules* 2016, 17: 905
38. Torres-Rendon JG, Femmer T, **De Laporte L**, Tigges T, Rahimi K, Gremse F, Zafarnia S, Lederle W, Ifuku S, Wessling M, Hardy JH*, Walther A*. Bioactive Gyroid Scaffolds Formed by Sacrificial Templating of Nanocellulose and Nanochitin Hydrogels as Instructive Platforms for Biomimetic Tissue Engineering. *Adv Mater.* 2015, 27: 2989
39. Repenko FT, Fokong SS, **De Laporte L**, Go D, Kiessling F, Lammers T, Kuehne A. Water soluble dopamine-based polymers for phototacoustic imaging. *Chemical Communications* 2015, 51: 6084
40. Hopkins AM, **De Laporte L**, Tortelli F, Spedden E, Staii C, Atherton T, Hubbell JA, Kaplan DL. Silk hydrogels as soft substrates for neural tissue engineering. *Adv Funct Mater.* 2013, 23: 5140
41. **De Laporte L***, Rice JJ*, Tortelli F, Hubbell JA. Tenascin C promiscuously binds growth factors via its fifth fibronectin type III-like domain. *PLoS One* 2013, 8: e62076
42. Rice JJ*, Martino MM*, **De Laporte L***, Tortelli F*, Briquez PS, Hubbell JA. Engineering the regenerative microenvironment with biomaterials. *Adv Healthc Mater.* 2013, 2: 57
43. **De Laporte L**, des Rieux A, Tuinstra HM, Zelivyanskaya ML, De Clerck NM, Postnov AA, Pr  at V, Shea LD. Vascular endothelial growth factor and fibroblast growth factor 2 delivery from spinal cord bridges to enhance angiogenesis following injury. *J Biomed Mater Res Part A* 2011, 98: 372

44. **De Laporte L**, Huang A, Ducommun M, Zelivyanskaya ML, Aviles MO, Adler A, Shea LD. Patterned gene expression from tissue engineering scaffolds for spinal cord regeneration. *Acta Biomaterialia* 2010, 6: 2889
45. Yang Y, **De Laporte L**, Zelivyanskaya ML, Whittlesey KJ, Anderson AJ, Cummings BJ, Shea LD. Multiple channel bridges for spinal cord injury: cellular characterization of host response. *Tissue Eng Part A* 2009, 15: 3283
46. Zhang XQ, Tang H, Hoshi R, **De Laporte L**, Qiu H, Xu X, Shea LD, Ameer GA. Sustained transgene expression via citric acid-based polyester elastomers. *Biomaterials* 2009, 30: 2632.
47. **De Laporte L**, Yan AL, Shea LD. Local gene delivery from ECM-coated poly(lactide-co- glycolide) multiple channel bridges after spinal cord injury. *Biomaterials* 2009, 30: 2361
48. **De Laporte L**, Yang Y, Zelivyanskaya ML, Cummings BJ, Anderson AJ, Shea LD. Plasmid releasing multiple channel bridges for transgene expression after spinal cord injury. *Mol Ther.* 2009 17: 318
49. **De Laporte L**, Shea LD. Matrices and Scaffolds for DNA Delivery in Tissue Engineering. *Adv Drug Delivery Reviews* 2006, 59: 292
50. **De Laporte L**, Cruz Rea J, Shea LD. Design of modular non-viral gene therapy vectors. *Biomaterials* 2006, 28: 947
51. Yang Y, **De Laporte L**, Rives CB, Jang J-H, Shull K, Shea LD. Controlled NGF release from single-lumen and multi-lumen conduits for nerve regeneration. *J. Control Release* 2005, 104: 433

TEACHING AT RWTH

2020	Max Planck School – Matter to Life: Spring School (9 h)
SS 2019, 2020	Makromolekulare Chemie II (<i>1 SWS/year</i>)
WS 2018-2020	Chemistry and Biochemistry – Introduction to Polymers, Biomedical Engineering M.Sc., RWTH Aachen, Germany (<i>1 SWS/year</i>)
WS&SS 2018-2020	Biomaterialien und bioaktive Peptiden, Chemie M.Sc. ITMC, RWTH Aachen, Germany (<i>2 SWS/year</i>)
SS 2016-2020	Materials Science and Processing, Biomedical Engineering M.Sc., RWTH Aachen, Germany (<i>3 Lectures/year</i>)
WS 2017-2019	Biointerface/Implantologie, Biomedical Engineering M.Sc., RWTH Aachen, Germany (<i>1 Lecture/year</i>)
07/2018	Ringvorlesung SFB985: Challenges to make artificial organs, Aachen, Germany
07/2018	SFB985 Summer School RWTH - Georgia Tech University: Microgels as building blocks for tissue regenerative materials, Aachen, Germany
WS 2015-2017	Chemistry and Biochemistry – Introduction to Polymers, Biomedical Engineering M.Sc., RWTH Aachen, Germany (<i>4 Lectures/year</i>)
SS 2016	Neurosciences, Biomedical Engineering M.Sc., RWTH Aachen, Germany (<i>1 Lecture</i>)

SELECTED AWARDS

Steinhofer Vorlesung 2019
 Young Investigator Award 2018 – Engineering Conferences International
 Max-Buchner-Forschungstiftung 2016

PATENTS

1. **De Laporte L**, Moeller M, Rose JC, Omidinia-Anarkoli A: Macroscopically alignable, injectable, soft hydrogel composite (EP 3452120 B1, May 27 2020; US 11071806 B2, Jul 21 2021)
2. Hubbell JA, Martino MM, **De Laporte L**, Rice JJ, Tortelli F.: Tissue Repair Formulations from extracellular matrix heparin-binding domains. U.S. Patent (US 20140011978 A1, Jan 9 2014)
3. Shea LD, Shea LL, Whittlesey KJ, Yang Y, Rives CB, **De Laporte L**, Jang J-H. Biodegradable scaffolds and uses thereof. U.S. Patent (Patent No US 7,846,466 B2, Dec 7 2010)

SCIENTIFIC PRESENTATIONS

2022 Digital: 16th Annual Meeting RSC Biomaterials Chemistry

2021 Digital: Tissue Engineering and Regenerative Medicine International Society (TERMIS) World Conference; Japanese Society for Cell Synthesis Research; Seminar CRC 1459 – Intelligent Matter; European Society for Biomaterials (ESB); Korean Spinal Research Society; International Online Spinal Cord Injury seminar Series (I-OSCIRS); GDCh Lectures; Seminar University of Hasselt; Umbrella Meeting with Technion University Israel; Rudolf Mößbauer Colloquium - Max Planck Institute for Medical Research; Webinar International Society for Biofabrication (ISBF); Seminar University of Erlangen; Japan-Aachen Workshop Nanomedicine; German-American Frontiers of Engineering (GAFOE)

2020 Digital: 5th Bioinspired Materials, Irsee; Max Planck School: Matter to Life Lecture Series Webinar; SynCell2020 Virtual Symposium; Online seminar for the German Society for Biomaterials; Leibniz Meet the Scientist; Online Seminar EPFL; Tissue Engineering Conference UKA Aachen; Moderator Brightland Feel the Chemistry, Health Challenge

2019 Seminar University Duisburg-Essen; Seminar University Mainz; Biospine Rome IT; Steinhofers Vorlesung Freiburg DE; Leibniz Gemeinschaft ERC workshop, Berlin; Max Planck School, Heidelberg; 16th Biennial Bayreuth Polymer Symposium; Particle Based Materials Symposium, Ulm; Biofabrication, Columbus OH, USA; RWTH Senioren, Aachen; N2 Event, Berlin; Sino Event, Aachen; APC Twin Waters, Australia; Bioinspired Materials, Monte Verita, CH; MERLN PhD Symposium Maastricht, NL; Chains Eindhoven, NL; Block-Kolloquium Biomedical materials INM Saarbrücken

2018 Seminar University Dusseldorf; Jahrestagung der Deutschen Gesellschaft für Biomaterialien, Braunschweig; Magnetism, Paris FR; Biointerface International Conference, Zurich CH, Nanotechnology in Medicine II, Albufeira PT, Konferenz Materialinnovationen - Material Vital, München, 2nd Theodore von Kármán - Discussion Conference on Materials for Life, Bergisch Gladbach; KStV Grotenburg Lusatia, Aachen; Kékulé Cycle, Antwerp BE; ACS Annual Meeting, New Orleans, US; Seminar Forces, materials, cellular responses, Aachen; 9th Workshop of Chemical and Biological Micro Laboratory Technology, Ilmenau.

2017 Ringberg Castle Symposium on 4D Molecular Systems Engineering, Schlöss Ringberg; Jahrestagung der Deutschen Gesellschaft für Biomaterialien, Würzburg; American Institute of Chemical Engineers (AIChE), Minneapolis US; Particle-Based Materials Symposium, Saarbrücken; Mechanobiologie-Kolloquium, Aachen DE; 12th International Conference on Advanced Polymers via Macromolecular Engineering, Ghent BE; NVMB-NBTE symposium, Lunteren NL; Biospine, Berlin; eFFECT event on ChemTech & Healthcare, Ghent BE; Mechanobiology-Symposium, Uniklinik Aachen; The 13th Zsigmondy colloquium of the German Colloid Society, Saarbrücken; Symposium "Biomaterials-based approaches to personalized medicine", Leibniz Gesundheitstechnologien, Berlin; 5th International Conference on Multifunctional, Hybrid and Nanomaterials, Lisbon Portugal.

2016 7th BSRT Symposium "Regenerate me if you can" Foster success in compromised regenerative processes, Charité, Berlin DE; American Institute of Chemical Engineers (AIChE), San Francisco US; Biomedical engineering Society (BMES) (*poster*), Minneapolis US; Jahrestagung der Deutschen Gesellschaft für Biomaterialien, Aachen DE; Active Hydrogels - An interdisciplinary symposium on the different designs and utilizations of hydrogels, Schlöss Ringberg DE.

2015 BSRT Symposium "Revealing Prometheus secrets" Current technologies for tissue & organ regeneration and their clinical perspective, Charité, Berlin DE; Engineering Life: Synthetic biology meets bio-inspired materials, Dresden DE; Engineering of functional interfaces (Enfi), Hannover DE; Seleca Symposium, Osaka University Japan; Umbrella Symposium, Haifa Israel.

2014 Umbrella Symposium, Aachen DE; Aachen Polymer Chain (APC) Talks, Aachen DE.

<2014 Tissue Engineering & Regenerative Medicine International Society (TERMIS): Vienna, Austria (2014), Galway, Ireland (2010); AIChE: Philadelphia, US (2008), Salt Lake City US (2007), San Francisco US (2006); Society for Neuroscience, Atlanta, US (*poster*) (2006).

ORGANIZATION CONFERENCES

04/2019	GDCh-Wissenschaftsforums Chemie 2019 – Session „Interactive Materials for Life“, Aachen
04/2018	2nd Theodore von Kármán – Discussion Conference on Materials for Life: Bioinspired and biomimetic hydrogels, Bergisch Gladbach

