Curriculum vitae

PERSONAL INFORMATION

Family name, First name: Leroux, Jean-Christophe

Nationalities: French and Canadian

Date of birth: 27/04/1969

URL for web site: www.galenik.ethz.ch

• EDUCATION

1995 Ph.D., Pharmaceutical Sciences

Faculty of Sciences, School of Pharmacy, University of Geneva, Switzerland

1992 B. Pharm.

Faculty of Pharmacy, University of Montreal, Canada

• CURRENT POSITION(S)

2008 - Full Professor, Drug Formulation and Delivery

Institute of Pharmaceutical Sciences, ETH Zürich, Switzerland

• PREVIOUS POSITIONS

2018	Visiting scientist (6 mo),
	University Health Network, Toronto, Canada
2014 - 2016	Chair
	Institute of Pharmaceutical Sciences, ETH Zürich, Switzerland
2010 - 2013	Adjunct Professor
	Faculty of Pharmacy, University of Montreal, Canada
2007 - 2010	Full Professor
	Faculty of Pharmacy, University of Montreal, Canada
2007 - 2008	Visiting Professor
	Department of Chemistry, McGill University, Canada
2002 - 2007	Associate Professor
	Faculty of Pharmacy, University of Montreal, Canada
1997 - 2002	Assistant Professor
	Faculty of Pharmacy, University of Montreal, Canada
1996 – 1997	Postdoctoral Fellow

• FELLOWSHIPS AND AWARDS (EXCERPT)

2020	ERC Advanced Grant
2019	Fellow, American Association of Pharmaceutical Scientists
2018	Highly Cited Researcher 2018 - Clarivate Analytics
2017	Highly Cited Researcher 2017 - Clarivate Analytics
2016	AAPS Lipid Based Drug Delivery Outstanding Research award
2016	Finalist, Spark award (best ETH invention)
2016	Venture – best business plan (3 rd position, Inositec AG)
2015	Phoenix Prize, Pharmaceutical Technology
2015	Thomson Reuters Highly Cited Researcher: http://highlycited.com
2014	Fellow, Controlled Release Society
2014	Thomson Reuters Highly Cited Researcher: http://highlycited.com
2014	APV Research Award for Outstanding Achievements in Pharmaceutical Sciences
2014	"Venture" 2014 Business idea
2012	ETH Golden Owl Award (teaching)
2011	Gattefossé Canada CSPS Award in Lipid-Based Drug Delivery
2010	Debiopharm Life Sciences Award
2010	Gattefossé Canada CSPS Award in Lipid-Based Drug Delivery
2009	Gattefossé Canada CSPS Award in Lipid-Based Drug Delivery
2008	Steacie Fellowship

School of Pharmacy, University of California at San Francisco, USA

2001 - 2007	Canada Research Chair
2007	Best Paper Award, European Journal of Pharmaceutics and Biopharmaceutics
2004	Controlled Release Society Young Investigator Award
2003	Astra Zeneca – AFPC Young Investigator Award
2003	CRS-Capsugel award (innovative aspects of controlled drug release)
2002	Pfizer – Actualités Pharmaceutiques award (research)

• RESEARCH OUTPUT

h-index: 79 (Google scholar, >24,200 citations), 65 (web of science, >16,550 citations). 241 peer-reviewed articles, 14 book chapters, 23 patents/patent applications, 121 invited lectures, 341 abstracts and presentations. Since 1997, more than €15.5 M and €23 M in research funding as PI and co-PI, respectively.

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

1997 –	37 graduated Ph.D. students, currently 12 Ph.D. students
	39 postdoctoral fellows, currently 5 postdoctoral fellows
	20 former lab members now professors/lecturers in academic/research institutions

• CURRENT TEACHING ACTIVITIES

2009 –	Drug delivery and Drug Targeting, ETH Zurich
2008 –	Pharmaceutical Technology 1 & 2, ETH Zurich

• RECENT INSTITUTIONAL RESPONSIBILITIES (EXCERPT)

2015 –	Member, ETH Research Commission, ETH Zürich
2014 - 2016	Chair, Institute of Pharmaceutical Sciences, ETH Zurich
2009 - 2015	Admission Committee, Master Medicinal and Industrial Pharm. Sciences, ETH Zurich
2010 - 2012	Search Committee, Department of Pharmaceutical Sciences, University of Basel
2011	Accreditation Program Committee, Institute of Pharmaceutical Sciences, ETH Zurich
2010	Search Committee, Institute of Biochemical Engineering, ETH Zurich

• ADVISORY BOARDS, REVIEW PANELS (EXCERPT)

2018 –	Editorial Board Member, Journal of Controlled Release
2018 -	Mperia Therapeutics Inc., Canada, Scientific Advisory Board, Member
2015 –	Editorial Board Member, Molecular Pharmaceutics
2014 - 2016	Scientific Advisory Board Member, Midatech, UK
2013 –	Journal of Controlled Release Best Paper Award Committee
2013	Review Expert, AERES, Galien Institute UMR 8612, CNRS, France
2013 –	Editorial Board Member, Biomacromolecules
2013 - 2014	Review Expert, LabEX NanoSaclay, France
2013 - 2014	Scientific Advisory Board Member, Flamel Technologies, France
2012 - 2017	Associate Editor, Journal of Controlled Release
2012	Review Panel Member, Bulgarian-Swiss Research Program, SNSF
2010 –	Scientific Advisory Board Member, Carlina Technologies, France
2008	Review Panel Member, Young Investigator Award, Controlled Release Society
2006 - 2012	Associate Editor, European Journal of Pharmaceutics and Biopharmaceutics (IF 3.77)
2005 - 2016	Editorial Board Member, Journal of Pharmaceutical Sciences
2005 - 2011	Editorial Board Member, Journal of Controlled Release
2002 -	Editorial Board Member, Journal of Drug Delivery Science and Technology
1998 - 2006	Editorial Board Member, European Journal of Pharmaceutics and Biopharmaceutics

• MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2013 –	Swiss Society of Pharmaceutical Sciences
2012 -	American Association of Pharmaceutical Scientists
1999 –	American Chemical Society
1994 –	Controlled Release Society

• SERVICE AS A REFEREE

Major chemical, pharmaceutical and medical journals: *Nature Chemistry, Nature Medicine, Nature Nanotechnology, Nature Communications, JACS, Angewandte Chemie, Advanced Materials*, etc. Major funding agencies: Natural Sciences and Engineering Research Council of Canada, Foundation, Canadian Institutes of Health Research, SNSF, ERC starting grants, KAUST-ICL, ANR (France), Swiss Cancer League, etc.

• RECENT REPRESENTATIVE PUBLICATIONS (complete list at www.galenik.ethz.ch)

- Schantl AE, Verhulst A, Neven E, Behets G, D'Haese PC, Maillard M, Mordasini D, Phan O, Burnier M, Spaggiari D, Decosterd LA, MacAskill MG, Alcaide-Corral CJ, Tavares AAS, Newby DE, Beindl VC, Maj R, Labarre A, Hegde C, Castagner B, Ivarsson ME and Leroux JC. Inhibition of vascular calcification by inositol phosphates derivatized with ethylene glycol oligomers. *Nat Commun* 2020; 11:721.
- 2. Liang K, Carmone S, Brambilla D and **Leroux JC**. 3D printing of a wearable personalized oral delivery device: a first-in-human study. *Sci Adv* 2018; 4:eaat2544.
- 3. Schulz JD, Patt M, Basler S, Kries H, Hilvert D, Gauthier MA and **Leroux JC***. Site-specific polymer conjugation stabilizes therapaeutic enzymes in the gastrointestinal tract. *Adv Mater* 2016; 28:1455-1460.
- 4. Forster V, Signorell RD, Roveri M, **Leroux JC***. Liposome-supported peritoneal dialysis for detoxification of drugs and endogenous metabolites. *Sci Transl Med* 2014; **6**:258ra141. (IF 16.26).
- 5. Fuhrmann G, Grotzky A, Lukic R, Matoori S, Luciani P, Yu H, Zhang B, Walde P, Schlüter D, Gauthier MA and **Leroux JC***. Sustained gastrointestinal activity of dendronized polymer–enzyme conjugates. *Nat Chem* 2013; **5**:582-589.
- 6. Brülisauer L, Kathriner N, Prenrecaj M, Gauthier MA and **Leroux JC.** Tracking the bio-reduction of disulfide-containing cationic dendrimers. *Angew Chem Int Edit* 2012; 51:12454-12458. (IF 11.71)
- 7. Wu C, **Leroux JC*** and Gauthier MA*. Twin disulfides for orthogonal disulfide pairing and the directed folding of multi-cyclic peptides. *Nat Chem* 2012; **4**:1044-1049.
- 8. Fuhrmann G and **Leroux JC***. *In vivo* fluorescence imaging of exogenous enzyme activity in the gastrointestinal tract. *Proc Natl Acad Sci USA* 2011; **108**:9032-9037.
- 9. Leblond J, Gao H, Petitjean A and Leroux JC. pH-responsive molecular tweezers. *J Am Chem Soc* 2010; **132**:8544-8545.
- 10. Pinier M, Verdu E, Nasser-Eddine M, David CS, Vézina A, Rivard N and **Leroux JC***. Suppression of gliadin-induced toxicity on the intestinal epithelium by polymeric binders. *Gastroenterology* 2009; **136**:288-298.

LEADERSHIP IN INDUSTRIAL INNOVATION OR DESIGN

ETH Spin-off companies

Versantis AG (co-founder), 03/2015, www.versantis.ch (Clinical Phase 1b ongoing) Inositec AG (co-founder), 12/2015, www.inositec.com

Technologies previously developed in collaboration with pharmaceutical companies

Nano-Delivery SystemTM (oral and parenteral polymeric micelles), Altus Formulation Inc.

Depolip[®] (in situ forming parenteral organogels), Ethypharm SA.

BL-7010 (oral polymeric binder for celiac disease), BiolineRx Ltd, Clinical Phase 1b completed.