

# Curriculum vitae

## Dr. phil. nat. Byron Oppliger

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### PROFESSIONAL EXPERIENCE

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| 11/2022 – present | <b>Lecturer in Pharmacy and Research Fellow, BIHAM, University of Bern, Bern, CH</b><br>OSCE preparation, lectures in master program.   |
| 06/2020 – present | <b>Community pharmacist in Pharmacie 24, Vaud, CH</b><br>Daily and laboratory pharmacist. Candidate for FPH Certificate in Community Pharmacy.  |
| 02/2018 – 05/2020 | <b>Medical Affairs Manager CNS/Psychiatry, OM Pharma, Vifor AG, Fribourg, CH</b><br>Responsible for internal as well as external scientific training in the field of affective disorders.   |
| 04/2017 – 01/2018 | <b>Medical Information Manager, Vifor Pharma, Vifor AG, Fribourg, CH</b><br>Answering medical questions from health care professionals for all Vifor Pharma products. Internal coordination of the medical/scientific content.  |
| 03/2016 – 03/2017 | <b>Postdoc in the laboratory of Prenatal Medicine, Department of Clinical Research and Department of Obstetrics and Gynecology, University of Bern, Bern, CH</b><br>Research project: Exosomes from umbilical cord stem cells as a cell free therapy for neonatal brain injury. |
| 01/2013 – 03/2016 | <b>PhD in the laboratory of Prenatal Medicine, Department of Clinical Research and Department of Obstetrics and Gynecology, University of Bern, Bern, CH</b><br>Research project: Umbilical cord stem cells as a treatment for preterm brain injury.                            |

06/2013 – 12/2014	<b>Part-time pharmacist in the community pharmacy “Stedtli Apotheke Topwell Apotheken AG”, Laufen, Basel-Land, CH</b> Responsible pharmacist.
09/2011 – 07/2012	<b>Internship in the community pharmacy “Apotheke Oberwil Lenzinger AG”, Oberwil, Basel-Land, CH</b> Acquired skills as a community pharmacist.
09/2011 – 07/2012	<b>Master thesis: „Effects of three traditionally used herbal medicines on biomarkers of inflammation and oxidative stress in high-fat diet induced obese rats“, University of Florida, Gainesville, Florida</b> Research project: Determination of inflammatory and oxidative stress markers in plasma samples of rats.
2007 – 2011	<b>Temporary employment in the department of documentation and product safety, Brenntag Schweizerhall AG, Basel, CH</b> Data migration, revision of hazardous goods in SAP modules, revision of the classification of drugs (human, animal).

## **EDUCATION**

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2021-2022	<b>CAS in Clinical Pharmacy, University of Geneva, University of Grenoble Alpes, CH, FR</b>
2021	<b>FPH Vaccination and Blood sampling, Pharmasuisse, Bern, CH</b>
2013 – 2016	<b>PhD in Biomedical Sciences/Neurosciences, Graduate School for Cellular and Biomedical Sciences (GCB), University of Bern, Bern, CH, Ph.D.</b>
2010 – 2012	<b>Master in Pharmacy, University of Basel, Basel, CH</b> Federally certified pharmacist, M.Sc.
2007 – 2010	<b>Bachelor of Science in Pharmaceutical Sciences, University of Basel, Basel CH, B.Sc.</b>
2003 – 2006	<b>Matur Gymnasium Oberwil, Oberwil, BL</b>

## PUBLICATIONS

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M. Joerger-Messerli\*, **B. Oppliger\***, M. Spinelli, G. Thomi, I. di Salvo , P. Schneider, A. Schoeberlein. Extracellular Vesicles Derived from Wharton's Jelly Mesenchymal Stem Cells Prevent and Resolve Programmed Cell Death Mediated by Perinatal Hypoxia-Ischemia in Neuronal Cells. *Cell Transplant*. 2018 Jan;27(1):168-180.\**Authors contributed equally.*

**B. Oppliger**, M. Joerger-Messerli, C. Simillion, M. Mueller, U.Reinhart, D.V. Surbek, A. Schoeberlein. Mesenchymal Stem Cells from Umbilical Cord Wharton's Jelly Trigger Oligodendroglial Differentiation in Neural Progenitor Cells through Cell-to-Cell Contact. *Cytotherapy*, *Cytotherapy*. 2017 Jul;19(7):829-838.

M. Mueller, **B. Oppliger**, M. Joerger-Messerli, U.Reinhart, E. Barnea, B.Kramer, D.V. Surbek, A. Schoeberlein. Wharton's jelly Mesenchymal Stem Cells protect the immature brain in rats and modulate cell fate. *Stem Cells Dev*. 2017; 15;26:239-248

**B. Oppliger**, M. Joerger-Messerli, M. Mueller, U.Reinhart, P. Schneider, D.V. Surbek, A. Schoeberlein. Intranasal Delivery of Umbilical Cord-derived Mesenchymal Stem Cells Preserves Myelination in Perinatal Brain Damage. *Stem Cells Dev*. 2016;15;25:1234-42.

MS. Joerger-Messerli, C. Marx, **B. Oppliger**, M. Mueller, D.V. Surbek, A. Schoeberlein. Mesenchymal Stem Cells from Wharton's Jelly and Amniotic Fluid. *Best Pract Res Clin Obstet Gynaecol*. 2016;31:30-44

M. Mueller, A. Schoeberlein, J. Zhaou, M. Joerger-Messerli, **B. Oppliger**, U. Reinhart, A. Bordey, D. Surbek, E.R. Barnea, Y. Huang, M. Paidas. PreImplantation Factor bolsters neuroprotection via modulating Protein Kinase A and Protein Kinase C signaling. *Cell Death Differ*. 2015;22:2078-86.

## PRESENTATIONS

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November 2, 2016	Day of Clinical Research, Bern, CH ( <b>poster presentation</b> )
June 22-24, 2016	Swiss Society for Gynecology and Obstetrics, Annual Meeting, Interlaken, CH ( <b>oral presentation</b> )
March 16-19, 2016	Society for Gynecologic Investigation 63rd Annual Scientific Meeting, Montreal, CA ( <b>oral presentation</b> )
February 1-6, 2016	Society for Maternal-Fetal Medicine, 36th Annual Meeting, Atlanta, USA ( <b>poster presentation</b> )
November 4, 2015	Day of Clinical Research, Bern, CH ( <b>poster presentation</b> )
July 15-18, 2015	XII European Meeting on Glial Cells in Health and Disease, Bilbao, ES ( <b>poster presentation</b> )
June 29, 2015	11. Annual Meeting of the Swiss Stem Cell Network, Basel, CH ( <b>poster presentation</b> )
June 24-26, 2015	Swiss Society for Gynecology and Obstetrics, Annual Meeting, Lugano, CH ( <b>oral presentation, 3rd prize</b> )

March 25-28, 2015	Society for Gynecologic Investigation 62nd Annual Scientific Meeting, San Francisco, USA <b>(poster presentation)</b>
February 2-7, 2015	Society for Maternal-Fetal Medicine, 35th Annual Meeting, San Diego, USA <b>(oral presentation, poster presentation)</b>
January 23-24, 2015	Annual Meeting of the Swiss Society for Neuroscience 2014, Fribourg, CH <b>(poster presentation)</b>
November 6, 2014	Day of Clinical Research, Bern, CH <b>(poster presentation)</b>
June 25-27, 2014	Swiss Society for Gynecology and Obstetrics, Annual Meeting, Interlaken, CH <b>(oral presentation, 1st prize)</b>
June 4, 2014	10. Annual Meeting of the Swiss Stem Cell Network, Geneva, CH <b>(poster presentation)</b>
May 12-17, 2014	Adult Neurogenesis, Keystone Symposia, Stockholm, SE <b>(poster presentation)</b>
March 26-29, 2014	Society for Gynecologic Investigation 61st Annual Scientific Meeting, Florence, IT <b>(poster presentation)</b>
February 3-8, 2014	Society for Maternal-Fetal Medicine, 34th Annual Meeting, New Orleans, USA <b>(poster presentation)</b>
January 24 – 25, 2014	Annual Meeting of the Swiss Society for Neuroscience 2014, Bern, CH <b>(poster presentation)</b>
June 27 – 29, 2013	Swiss Society for Gynecology and Obstetrics, Annual Meeting, Lugano, CH <b>(oral presentation)</b>

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