Curriculum Vitae

Personal information

Kornelia Schützenberger

Work experience

7/2021- today: **Medical Assessor**, Austrian Agency for Health and Food Safety, Vienna, Austria

08/2020- 06/2021: **Scientific research associate (Post doc)**, Ludwig Boltzmann Institute for Traumatology, The Research Center in Cooperation with AUVA, Vienna, Austria

05/2016- 07/2020: **Scientific research associate (PhD student)**, Center for Medical Physics and Biomedical Engineering, Christian Doppler Laboratory for Ocular and Dermatologic Effects of Thiomers, Medical University of Vienna, Austria

7/2015- 04/2016: **Assistant** in the field of transgenic mouse models, Institute of Laboratory Animal Science, Department for Biomedical Sciences, University of Veterinary Medicine, Vienna, Austria

Education and training

02/2018- 07/2022: **Master Program Laboratory Animal Science & Welfare**, Department of Cellular Biology, Physiology and Immunology, Faculty of Veterinary Science, Universitat Autònoma de Barcelona, Spain

05/2016- 02/2021: **PhD Program Vascular Biology**, Center for Medical Physics and Biomedical Engineering, Christian Doppler Laboratory for Ocular and Dermatologic Effects of Thiomers, Medical University of Vienna, Austria

10/2008- 07/2015: **Diploma Program in Veterinary Medicine**, University of Veterinary Medicine, Vienna, Austria

Additional information

Publications

The p-rpS6-zone delineates wounding responses and the healing process, Developmental Cell 58(11), April 2023, DOI:10.1016/j.devcel.2023.04.001

Glycosylation site Asn168 is important for slow in vivo clearance of recombinant human diamine oxidase heparin-binding motif mutants, Glycobiology 32(5), January 2022, DOI:10.1093/glycob/cwab122

Heparin-binding motif mutations of human diamine oxidase allow the development of a first-in-class histamine-degrading biopharmaceutical, eLife 10, September 2021, DOI:10.7554/eLife.68542

Bio-Distribution and Pharmacokinetics of Topically Administered γ-Cyclodextrin Based Eye Drops in Rabbits, Pharmaceuticals 14(5):480, May 2021, DOI:10.3390/ph14050480

Optical Coherence Tomography Angiography Monitors Cutaneous Wound Healing under Angiogenesis-Promoting Treatment in Diabetic and Non-

Diabetic Mice, Applied Sciences 11(5):244, Mar 2021, DOI:10.3390/app11052447

Deep learning differentiates between healthy and diabetic mouse ears from optical coherence tomography angiography images, Annals of the New York Academy of Sciences, Feb 2021, https://doi.org/10.1111/nyas.14582

Human diamine oxidase cellular binding and internalization in vitro and rapid clearance in vivo are not mediated by N-glycans but by heparan sulfate proteoglycan interactions, Glycobiology 2020 September 26,https://doi.org/10.1093/glycob/cwaa090.

Simple, sensitive and specific quantification of diamine oxidase activity in complex matrices using newly discovered fluorophores derived from natural substrates, Inflamm Res. 2020 Sep;69(9):937-950. Doi. 10.1007/s00011-020-01359-5. Epub 2020 Jun 1. 1. June 2020

Cutaneous optical coherence tomography for longitudinal volumetric assessment of intradermal volumes in a mouse model, Sci Rep. 2020 Mar 6;10(1):4245. 6. doi: 10.1038/s41598-020-61276-9, Mar 2020

Identifying Diabetes in Mice using Optical Coherence Tomography Angiography Images of the Ears and Deep Learning, Conference paper, January 2020, DOI:10.1364/OCT.2020.OM4E.4

Pharmacokinetics of angiotensin-receptor blocker in cyclodextrin nanoparticle eye drops in rabbits, Acta Ophthalmologica 97(S263), December 2019, DOI:10.1111/j.1755-3768.2019.5328

Automated segmentation of dermal fillers in OCT images of mice using convolutional neural network, Biomed Opt Express. 2019 Feb 19;10(3):1315-1328. doi: 10.1364/BOE.10.001315. eCollection 2019 Mar 1.

Characterization of dry eye disease in a mouse model by optical coherence tomography and fluorescein staining, Biomed Opt Express. 2019 Aug 28;10(9):4884-4895. doi: 10.1364/BOE.10.004884. eCollection 2019 Sep 1.

Comparison of optical coherence tomography and high frequency ultrasound imaging in mice for the assessment of skin morphology and intradermal volumes, Sci Rep. 2019 Sep 20;9(1):13643. doi: 10.1038/s41598-019-50104-4.

Hyperspectral optical coherence tomography for in vivo visualization of melanin in the retinal pigment epithelium, J Biophotonics. 2019 Jul 23:e201900153. doi: 10.1002/jbio.201900153.

Projects

Memberships

Other Relevant Information