

Curriculum Vitae

EVA LASIČ



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Date of birth: 9.9.1988



Vojkova 47, 1000 Ljubljana, Slovenia

Place of birth: New York, USA

Education

Oct 2014— Apr 2018 **PhD** (post-graduate study CELL SCIENCES within the Interdisciplinary doctoral study program BIOSCIENCES)

University of Ljubljana, Biotechnical Faculty, Jamnikarjeva 101, Ljubljana, Slovenia

Doctoral Thesis: *“Regulation of Elementary Exocytotic and Endocytotic Events in Cultured Astrocytes”*

Supervisors: prof. dr. Robert Zorec, dr. Matjaž Stenovec

Oct 2006—Apr 2013 **MSc** (under-graduate study BIOLOGY)

University of Ljubljana, Department of Biology, Biotechnical Faculty, Večna pot 111, Ljubljana, Slovenia

Master’s Thesis: *“Molecular and Functional Differentiation of the Urothelium Established on the Amniotic Membrane with Tissue Engineering”*

Supervisor: prof. dr. Mateja Erdani Kreft

2002—2006 International Baccalaureate Diploma Programme *Golden graduate*

Gymnasium Bežigrad, Peričeva 4, Ljubljana, Slovenia

Work Experience

2012— Academic editor

Substantive editing and proofreading of scientific texts (e.g., research articles, grant proposals, etc.)

Aug 2019— **ACALECT, Akademsko lektoriranje in svetovanje, Eva Veronica Lasič s.p.**

@ **BioEdit Ltd**, Manchester, UK

@ **Scribendi Inc**, Chatham, Ontario, Canada

@ **Enago, Crimson Interactive Inc**, Delaware, USA

@ **Edanz**, Fukuoka 810-0075, Japan

@ **Editage, CACTUS Communications Services Pte Ltd**, Singapore-069046

→ **Clients in Slovenia:**

➤ National Institute of Biology

➤ National Institute of Chemistry

➤ Jožef Stefan Institute

➤ *Acta Chimica Slovenica*

➤ National Laboratory of Health, Environment and Food

➤ University of Ljubljana

• Faculty of Pharmacy

• Biotechnical Faculty

• University Medical Centre LJ

- Department of Neurology

• Medical faculty

- Institute of Cell Biology

- Institute of Biochemistry

- Institute of Pathophysiology

Oct 2014—Apr 2018 **PhD student**

Supervisors: prof. dr. Robert Zorec, dr. Matjaž Stenovec

Research on astroglial vesicle trafficking, exo-/endocytosis. Main methods: cell cultures (primary astrocytes, microglial cell lines, CHO cells, fibroblasts), cell transfection, immunocytochemistry, super-resolution SIM microscopy, electrophysiology

Institute of Pathophysiology, Medical faculty, University of Ljubljana,

Laboratory of Neuroendocrinology - Molecular Cell Physiology, Zaloška 4, Ljubljana, Slovenia

Nov 2016—Dec 2016 **Visiting PhD student**

Supervisor: dr. Gorazd B. Stokin, MD, PhD

Establishing an electrophysiological set-up for high-resolution patch-clamp cell-attached measurements of membrane capacitance in human stem cell-derived neurons and astrocytes, and learning to produce and maintain these cells

St. Anne’s University Hospital, ICRC, Translational Neuroscience & Aging Program, Brno, Czech Republic

Masaryk University, Stem Cells & Cell Signaling research group, Brno, Czech Republic

Jun 2014—Jul 2014 **Visiting researcher**

Supervisor: dr. Matjaž Stenovec

Microglia cell cultures, lipofection, Fluo-4 Ca²⁺ and FM-4-64 membrane labelling, confocal microscopy, live cell imaging

Institute of Pathophysiology, LN-MCP, Medical faculty, University of Ljubljana, Zaloška 4, Ljubljana, Slovenia

Oct 2013— Jun 2014 **EVS project**

Conservation and restoration biology, control of invasive species, endemic species preservation, bird ringing and census, lizard census, nature reserve management, eco-rice cultivation, environmental education

Mar 2014—Jun 2014 **GEPEC - Els Muntanyans**, Passeig de Colom 50 (Cal Bofill), Torredembarra, España

Oct 2013—Mar 2014 **SEO/Birdlife** - Delta de l'Ebre Nature Reserve Riet Vell, Amposta, España

May 2013—Sep 2013 **Internship**

Supervisor: prof. dr. Jennifer Southgate

Human normal and cancer urothelial cell cultures, perfused bioreactor cell culture, TER monitoring, cell proliferation assays, microtome sectioning, histology, immunolabelling, RNA extraction, cDNA synthesis, RT-PCR, Q-RT-PCR, gel electrophoresis

University of York, Department of Biology, Jack Birch Unit, York, UK

Apr 2012—Apr 2013 **Master's student**

Supervisor: prof. dr. Mateja Erdani Kreft

Porcine urothelial cell cultures, tissue engineering, histochemistry, immunofluorescence, immunohistochemistry, permeability and transepithelial resistance analyses, fluorescence microscopy with optical sections

Institute of Cell Biology, Medical faculty, University of Ljubljana, Lipičeva 2, Ljubljana, Slovenia

Lek Pharmaceuticals d.d., Pharmaceutical & Biological Profiling, Verovškova 57, Ljubljana, Slovenia

Oct 2011—Mar 2012 **Internship**

Supervisor: prof. dr. Boris Rogelj

Research on neurodegenerative diseases (ALS, FTLD). Histochemistry, immunofluorescence, immunohistochemistry, bacteria cultures, plasmid isolation, DNA electrophoresis, microscopy

King's College London, Institute of Psychiatry, Department of Clinical Neuroscience, London, UK

Summer 2006 **Laboratory and fieldwork assistant**

Analysis of water and soil, biomonitoring

ERICo Velenje Institute for ecological research d.o.o., Velenje, Slovenia

Personal skills

Languages: English (native speaker, C2)
Slovene (native speaker, C2)
Spanish (B2, Diploma DELE - Diploma de Español como Lengua Extranjera)

Scholarships / Grants: National Zoisova scholarship
Erasmus grant
Leonardo Da Vinci grant
EVS project
Slovenian Research Agency PhD funding

Computer skills: Microsoft Word, Excel, Powerpoint, Photoshop, EndNote, CorelDraw, AxioVision, NIS Elements, ImageProPlus, SigmaPlot, ZEN, ImageJ, MATLAB, Ascent Software for multiskan ascent

Other skills: Diving licences (PADI Open Water Diver & PSS Free Diver)
Acroyoga teacher

Driving licence: B category

PUBLICATIONS by EVA LASIČ

1. Rituper B, Guček A, Lisjak M, Gorska U, Šakanović A, Bobnar ST, **Lasič E**, Božić M, Abbineni PS, Yilmaz G, Jorgačevski J, Kreft M, Verkhatsky A, Platt FM, Anderluh G, Stenovec M, Božić B, Coorssen JR, Zorec R. **Redistribution of cholesterol from vesicle to plasmalemma controls fusion pore geometry.** [*under review*]
2. Erdani-Kreft M, Tratnjek L, **Lasič E**, Hevir-Kene N, Lanišnik Rižner T, Kristan K. **Different culture conditions affect drug transporter gene expression, ultrastructure, and permeability of primary human nasal epithelial cells.** *Pharm Res* 20;37(9):170 (2020)
3. **Lasič E**, Bobnar ST, Wilhelmsson U, De Pablo Y, Pekny M, Zorec R, Stenovec M. **Nestin affects fusion pore dynamics in mouse astrocytes.** *Acta Physiol (Oxf)* 228(3):e13399 (2020)
4. **Lasič E**, Lisjak M, Horvat A, Božić M, Šakanović A, Anderluh G, Verkhatsky A, Vardjan N, Jorgačevski J, Stenovec M, Zorec R. **Astrocyte specific remodeling of plasmalemmal cholesterol composition by ketamine indicates a new mechanism of antidepressant action.** *Sci Rep* 9, 10957 (2019)
5. Wilhelmsson U, Lebkuechner I, Leke R, Marasek P, Yang X, Antfolk D, Chen M, Mohseni P, **Lasič E**, Trkov S, Stenovec M, Zorec R, Nagy A, Sahlgren C, Pekna M, Pekny M. **Nestin regulates neurogenesis in mice through notch signaling from astrocytes to neural stem cells.** *Cereb Cortex* 12, 269-17 (2018)
6. Stenovec M, **Lasič E**, Dominkuš PP, Trkov S, Zorec R, Lenassi M, Kreft M. **Slow release of HIV-1 protein Nef from vesicle-like structures is inhibited by cytosolic calcium elevation in single human microglia.** *Mol Neurobiol* 56, 102-118 (2018)
7. Dominkuš PP, Stenovec M, Sitar S, **Lasič E**, Zorec R, Plemenitaš A, Žagar E, Kreft M, Lenassi M. **PKH26 labeling of extracellular vesicles: characterization and cellular internalization of contaminating PKH26 nanoparticles.** *BBA-Biomembr* 1860, 1350-1361 (2018)
8. **Lasič E**, Stenovec M, Kreft M, Robinson PJ, Zorec R. **Dynamin regulates the fusion pore of endo- and exocytotic vesicles as revealed by membrane capacitance measurements.** *BBA-G* 1861, 2293-2303 (2017)
9. Stenovec M, Trkov S, **Lasič E**, Terzieva S, Kreft M, Arellano JJA, Parpura V, Verkhatsky A, Zorec R. **Expression of familial Alzheimer disease presenilin 1 gene attenuates vesicle traffic and reduces peptide secretion in cultured astrocytes devoid of pathologic tissue environment.** *Glia* 64, 317-329 (2016)
10. **Lasič E**, Rituper B, Jorgačevski J, Kreft M, Stenovec M, Zorec R. **Subanesthetic doses of ketamine stabilize the fusion pore in a narrow flickering state in astrocytes.** *J Neurochem* 138, 909-917 (2016)
11. **Lasič E**, Galland F, Vardjan N, Šribar J, Križaj I, Leite MC, Zorec R, Stenovec M. **Time-dependent uptake and trafficking of vesicles capturing extracellular S100B in cultured rat astrocytes.** *J Neurochem* 139, 309-323 (2016)
12. Stenovec M, **Lasič E**, Božić M, Trkov S, Stout RF, Grubišić V, Parpura V, Zorec R. **Ketamine inhibits ATP-evoked exocytotic release of brain-derived neurotrophic factor from vesicles in cultured rat astrocytes.** *Mol Neurobiol* 53, 6882-6896 (2016)
13. **Lasič E**, Višnjar T, Erdani-Kreft M. **Properties of the urothelium that establish the blood-urine barrier and their implications for drug delivery.** *Rev Phys Biochem Pharm* 168, 1-29 (2015).
14. Erdani-Kreft M, Jerman UD, **Lasič E**, Kene NH, Rižner TL, Peternel L, Kristan K. **The characterization of the human cell line Calu-3 under different culture conditions and its use as an optimized in vitro model to investigate bronchial epithelial function.** *Eur J Pharm Sci* 69, 1-9 (2015)
15. Erdani-Kreft M, Jerman UD, **Lasič E**, Rižner TL, Kene NH, Peternel L, Kristan K. **The characterization of the human nasal epithelial cell line RPMI 2650 under different culture conditions and their optimization for an appropriate in vitro nasal model.** *Pharm Res* 32, 665-679 (2015)
16. Bavec N, Hočevar A, Iskra I, **Lasič E**, Novak T, Papler T, Podobnik M, Raspor P, Rus E. **Alelopatski vpliv koreninskih ekstraktov koruze na kalitev in uspevanje sončnice, koruze in ovčje bilnice.** *Collectanea studentium physiologiae plantarum* 4, 19-22 (2009)
17. Demič R, **Lasič E**, Lasnik K, Papler T, Zlatkovič S. **Pomen arbuskularne mikorize in temnih septiranih endofitov za uspevanje trstikaste (*Festuca arundinaceae*) in ovčje bilnice (*Festuca ovina*).** *Collectanea studentium physiologiae plantarum* 4, 31-34 (2009)