

CURRICULUM VITAE

Title:	Dr.rer.nat
Name:	Esin
First name:	Kirill
Gender:	male
CV-Website:	www.kirill-esin.com
E-Mail:	essine_kv@yahoo.com
Address:	Albrechtstrasse 24 80636 Munich, Germany

EDUCATION

2001 – 2005	Humboldt University of Berlin, Germany, Department of Biophysics. PhD thesis: “Role of Cav1.2, TRPC1 and TRPC6 channels in Ca ²⁺ in mouse smooth muscle cells”.
1985 – 1993	St.-Petersburg State University, Russia, Department of Biophysics Diploma thesis: “Conformational analysis of chlorpromazine - the open channel blocking drug of nicotinic acetylcholinic receptor”.

EXPERIENCE

2021 – present	IT Support, LMU Clinic, Munchen, Germany
2019	Engineer, Max Plank Institute for Biological Cybernetics, Tuebingen, Germany
2013 – 2018	Freelance programmer
2012	PostDoc, Institute of Physiology, Marburg University, Marburg, Germany
2010-2011	PostDoc, Institute of Biochemistry, Goethe University, Frankfurt am Main, Germany
2001-2009	PhD student/PostDoc, Franz Volhard Clinic at the MDC, Charite, Berlin, Germany
1996 -2001	PhD student, Sechenov Institute of Evolutionary Physiology and Biochemistry, St.-Petersburg, Russia
1993 - 1996	Computer Programmer & Engineer, Institute of Evolutionary Physiology and Biochemistry, St.-Petersburg, Russia

SKILLS

Computer skills	http://www.kirill-esin.com/programming.php 1. Programming languages: C/C++, R/Rstudio, Python, VBA, SQL, XML 2. Program examples: • "Gtrendscomp" - Google Trends time series comparison (written in R). • "Spark Analysis" and „STOCs Analysis" - analysis of calcium sparks and spontaneous transient outward currents (STOCs) (written in C++). • "Macrophylon" - simulation model of evolutionary process (written in C). 3. Web design: HTML, CSS, PHP, Django Python Framework 4. Databases: MySQL, PostgreSQL, Paradox. 5. OS Systems: Ubuntu, Debian and Arch Linux, Windows. 6. Special Software: • Document management: roXtra-DMS administration. • Business Intelligence Software: MS PowerBI • Microscopy: Micro-Manager, LSM, Ultraview LCI, LaserSharp. • Image processing: ImageJ/Fiji, VirtualDub. • Electrophysiology: pClamp, PathMaster, CellWorks, CED. • Statistical software: SigmaPlot, Origin, R/RStudio/Shiny.
Microscopy	http://www.kirill-esin.com/imaqing.php 1. Bright-field and fluorescence microscopy 2. Conventional and spinning disk confocal microscopy. 3. Image and video processing.
Electrophysiology	http://www.kirill-esin.com/electrophysiology.php Patch-clamp, intra- and extracellular recordings in brain slices and isolated cells
Clinical studies	eCRF Development: CDISC ODM, XML/XSL (Evident IQ, Marvin EDC)

PUBLICATIONS

1.	Hegner B., Shaub T., Catar R., Kush A., Wagner P., Essin, K. , Lange C., Riemekasten G., and D. Dragan, <i>Intrinsic Deregulation of Vascular Smooth Muscle and Myofibroblast Differentiation in Mesenchymal Stromal Cells from Patients with Systemic Sclerosis</i> . PloS One, 2016. 11(4):e0153101.
2.	Essin, K. and M. Gollasch, <i>Role of ryanodine receptor subtypes in initiation and formation of calcium sparks in arterial smooth muscle: comparison with striated muscle</i> . J Biomed Biotechnol, 2009. p. 135249.
3.	Essin, K. , M. Gollasch, S. Rolle, P. Weissgerber, M. Sausbier, E. Bohn, I.B. Autenrieth, P. Ruth, F.C. Luft, W.M. Nauseef, and R. Kettritz, <i>BK channels in innate immune functions of neutrophils and macrophages</i> . Blood, 2009. 113(6): p. 1326-31.
4.	Mederos y Schnitzler, M., U. Storch, S. Meibers, P. Nurwakagari, A. Breit, K. Essin , M. Gollasch, and T. Gudermann, <i>Gq-coupled receptors as mechanosensors mediating myogenic vasoconstriction</i> . EMBO J, 2008. 27(23): p. 3092-103.
5.	Muller, M., K. Essin , K. Hill, H. Beschmann, S. Rubant, C.M. Schempp, M. Gollasch, W.H. Boehncke, C. Harteneck, W.E. Muller, and K. Leuner, <i>Specific TRPC6 channel activation, a novel approach to stimulate keratinocyte differentiation</i> . J Biol Chem, 2008. 283(49): p. 33942-54.
6.	Hercule, H.C., B. Salanova, K. Essin , H. Honeck, J.R. Falck, M. Sausbier, P. Ruth, W.H. Schunck, F.C. Luft, and M. Gollasch, <i>The vasodilator 17,18-epoxyeicosatetraenoic acid targets the pore-forming BK alpha channel subunit in rodents</i> . Exp Physiol, 2007. 92(6): p. 1067-76.
7.	Essin, K. , A. Welling, F. Hofmann, F.C. Luft, M. Gollasch, and S. Moosmang, <i>Indirect coupling between Cav1.2 channels and ryanodine receptors to generate Ca2+ sparks in murine arterial smooth muscle cells</i> . J Physiol, 2007. 584(Pt 1): p. 205-19.
8.	Leuner, K., V. Kazanski, M. Muller, K. Essin , B. Henke, M. Gollasch, C. Harteneck, and W.E. Muller, <i>Hyperforin - a key constituent of St. John's wort specifically activates TRPC6 channels</i> . FASEB J, 2007. 21(14): p. 4101-11.
9.	Dietrich, A., H. Kalwa, U. Storch, M. Mederos y Schnitzler, B. Salanova, O. Pinkenburg, G. Dubrovskaya, K. Essin , M. Gollasch, L. Birnbaumer, and T. Gudermann, <i>Pressure-induced and store-operated cation influx in vascular smooth muscle cells is independent of TRPC1</i> . Pflugers Arch, 2007. 455(3): p. 465-77.
10.	Essin, K. , B. Salanova, R. Kettritz, M. Sausbier, F.C. Luft, D. Kraus, E. Bohn, I.B. Autenrieth, A. Peschel, P. Ruth, and M.

Gollasch, <i>Large-conductance calcium-activated potassium channel activity is absent in human and mouse neutrophils and is not required for innate immunity</i> . Am J Physiol Cell Physiol, 2007. 293(1): p. C45-54
11. Dietrich, A., Y.S.M. Mederos, M. Gollasch, V. Gross, U. Storch, G. Dubrovskaya, M. Obst, E. Yildirim, B. Salanova, H. Kalwa, K. Essin , O. Pinkenburg, F.C. Luft, T. Gudermann, and L. Birnbaumer, <i>Increased vascular smooth muscle contractility in TRPC6-/- mice</i> . Mol Cell Biol, 2005. 25(16): p. 6980-9.
12. Sausbier, M., C. Arntz, I. Bucurenciu, H. Zhao, X.B. Zhou, U. Sausbier, S. Feil, S. Kamm, K. Essin , C.A. Sailer, U. Abdullah, P. Krippeit-Drews, R. Feil, F. Hofmann, H.G. Knaus, C. Kenyon, M.J. Shipston, J.F. Storm, W. Neuhuber, M. Korth, R. Schubert, M. Gollasch, and P. Ruth, <i>Elevated blood pressure linked to primary hyperaldosteronism and impaired vasodilation in BK channel-deficient mice</i> . Circulation, 2005. 112(1): p. 60-8.
13. Verlohren, S., G. Dubrovskaya, S.Y. Tsang, K. Essin , F.C. Luft, Y. Huang, and M. Gollasch, <i>Visceral periadventitial adipose tissue regulates arterial tone of mesenteric arteries</i> . Hypertension, 2004. 44(3): p. 271-6.
14. Tsang, S.Y., X. Yao, K. Essin , C.M. Wong, F.L. Chan, M. Gollasch, and Y. Huang, <i>Raloxifene relaxes rat cerebral arteries in vitro and inhibits L-type voltage-sensitive Ca²⁺ channels</i> . Stroke, 2004. 35(7): p. 1709-14.
15. Wernicke, D., C. Thiel, C.M. Duja-Isac, K.V. Essin , M. Spindler, D.J. Nunez, R. Plehm, N. Wessel, A. Hammes, R.J. Edwards, A. Lippoldt, U. Zacharias, H. Stromer, S. Neubauer, M.J. Davies, I. Morano, and L. Thierfelder, <i>alpha-Tropomyosin mutations Asp(175)Asn and Glu(180)Gly affect cardiac function in transgenic rats in different ways</i> . Am J Physiol Regul Integr Comp Physiol, 2004. 287(3): p. R685-95.
16. Essin, K. , A. Nistri, and L. Magazanik, <i>Evaluation of GluR2 subunit involvement in AMPA receptor function of neonatal rat hypoglossal motoneurons</i> . Eur J Neurosci, 2002. 15(12): p. 1899-906.
17. Lohn, M., U. Muzzulini, K. Essin , S.Y. Tsang, T. Kirsch, J. Litteral, P. Waldron, H. Conrad, N. Klugbauer, F. Hofmann, H. Haller, F.C. Luft, Y. Huang, and M. Gollasch, <i>Cilnidipine is a novel slow-acting blocker of vascular L-type calcium channels that does not target protein kinase C</i> . J Hypertens, 2002. 20(5): p. 885-93.
18. Bolshakov, K.V., K.V. Essin , S.L. Buldakova, N.A. Dorofeeva, S.N. Skatchkov, M.J. Eaton, D.B. Tikhonov, and L.G. Magazanik, <i>Characterization of acid-sensitive ion channels in freshly isolated rat brain neurons</i> . Neuroscience, 2002. 110(4): p. 723-30.
19. Magazanik, L.G., M.V. Samoilova, S.L. Buldakova, K.V. Esin , and V.E. Gmiro, <i>Selective block of AMPA/kainate receptors of hippocampal interneurons as a new approach to the investigation of inhibitory system</i> . Ross Fiziol Zh Im I M Sechenova, 1997. 83(5-6): p. 19-39.

AWARDS

- Phoenix Pharmazie-Wissenschaftspreis, Für die innovativ-qualitativ hervorragende wissenschaftliche Arbeit auf dem Gebiet Pharmakologie, Freiburg, Germany 2008
- Young scientist award, 26th Scientific Congress on Hypertension, Dresden, Germany 2002
- Young scientist award, Congress of Young Scientists, St. Petersburg, Russia, 1998
- First Honors Class Diploma, St. Petersburg State University, Russia, 1993