Dr. Lukasz Jablonski

GENERAL INFORMATION

Date of birth:	10.09.1987
Gender:	male
Nationality:	Polish
Current position:	Junior Research Group Leader
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ACADEMIC EDUCATION

2013–2018	Doctoral Studies, Leipzig University, Germany
2006–2012	Studies in the field of Technical Physics (major: Information Technology Physics), Faculty of Technical Physics, Information Technology and Applied Mathematics, Lodz University of Technology, Poland

SCIENTIFIC DEGREES

2018	Dr. rer. med. (Physiology)
2012	M.Sc.Eng. (Technical Physics)

PROFESSIONAL CAREER AFTER COMPLETING DEGREE

2022–	Junior Research Group Leader, Computational Neuroscience and Neuroengineering, Institute for Auditory Neuroscience (Prof. Dr. med. Tobias Moser), University Medical Center Göttingen, Göttingen, Germany and Auditory Neuroscience and Optogenetics Laboratory, German Primate Center, Göttingen, Germany
2017–2022	Postdoctoral research associate at the Institute for Auditory Neuroscience (Prof. Dr. med. Tobias Moser), University Medical Center Göttingen, Göttingen, Germany and Auditory Neuroscience and Optogenetics Laboratory, German Primate Center, Göttingen, Germany
01–04.2017	Guest scientist at the Department of Neurobiology (Prof. Dr. Reinhard Jahn), Max Planck Institute for Biophysical Chemistry, Göttingen, Germany
2013–2016	Doctoral research associate at the Carl Ludwig Institute for Physiology, Department I (Prof. Dr. med. Stefan Hallermann), Faculty of Medicine, Leipzig University, Leipzig, Germany
01–03.2013	Student research assistant at the High-frequency Signaling Group (Prof. Dr. med. Stefan Hallermann), European Neuroscience Institute Göttingen, Germany
09–11.2012	Student research assistant at the Department of Bioinformatics (Prof. Dr. Edgar Wingender), University Medical Center Göttingen, Göttingen, Germany

PUBLICATIONS

[1] Khurana L, Harczos T, Moser T#, **Jablonski L#** En route to sound coding strategy for optical cochlear implants (in revision).

[2] Khurana L, Keppeler D, **Jablonski L#**, Moser T# (2022) Model-based prediction of optogenetic sound encoding in the human cochlea by future optical cochlear implants.

Computational and Structural Biotechnology Journal 20:3621-3629; DOI: 10.1016/j.csbj.2022.06.061.

[3] **Jablonski L***, Harczos T*, Wolf B, Hoch G, Dieter A, Hessler R, Ayub S, Ruther P, Moser T# Hearing restoration by a low-weight power-efficient multichannel optogenetic cochlear implant system. bioRxiv 2020.05.25.114868; DOI: 10.1101/2020.05.25.114868.

[4] Keppeler D*, Schwaerzle M*, Harczos T*, **Jablonski L**, Dieter A, Wolf B, Ayub S, Vogl C, Wrobel C, Hoch G, Abdellatif K, Jeschke M, Rankovic V, Paul O, Ruther P#, Moser T# Multichannel optogenetic stimulation of the auditory pathway using microfabricated LED cochlear implants. Science Translational Medicine 12(553):eabb8086; DOI: 10.1126/scitranslmed.abb8086.

[5] Dieter A*, Klein E*, Keppeler D, **Jablonski L**, Harczos T, Hoch G, Rankovic V, Paul O, Jeschke M, Ruther P#, Moser T# (2020) µLED-based optical cochlear implants for spectrally selective activation of the auditory nerve. EMBO Molecular Medicine e12387; DOI: 10.15252/emmm.202012387.

[6] Ritzau-Jost A, **Jablonski L**, Viotti J, Lipstein N, Eilers J, Hallermann S# (2018) Apparent calcium dependence of vesicle recruitment. Journal of Physiology 596(19):4693–4707; DOI: 10.1113/JP275911.

[7] Witkowska A#, **Jablonski L**, Jahn R# (2018) A convenient protocol for generating giant unilamellar vesicles containing SNARE proteins using electroformation. Scientific Reports 8:9422; DOI: 10.1038/s41598-018-27456-4.

[8] Delvendahl I, **Jablonski L**, Baade C, Matveev V, Neher E, Hallermann S# (2015) Reduced endogenous Ca^{2+} buffering speeds active zone Ca^{2+} signaling. Proceedings of the National Academy of Sciences 112(23):E3075–E3084; DOI: 10.1073/pnas.1508419112.

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