

Publication, Statement, Contributions

Publication

Ryglewski S, Pflueger HJ, Duch C (2007) Expanding the neuron's calcium signaling repertoire: intracellular calcium release via voltage-induced PLC and IP3R activation. *PLoS Biol* 5(4): e66.[doi:10.1371/journal.pbio.0050066](https://doi.org/10.1371/journal.pbio.0050066)

Confirmation

Herewith, I, Stefanie Ryglewski, confirm that I have not used any forbidden tools for data acquisition and analysis. Furthermore, I confirm that I have not used any forbidden tools to accomplish this thesis.

Germany, Berlin

January, 29th 2008

Contributions

Chapter 1: Ryglewski S, Pflüger HJ, Duch C (2007) Expanding the neuron's signaling repertoire: Intracellular calcium release via voltage-induced PLC and IP3R activation. PLoS Biol 5(4): e66. doi:10.1371/journal.pbio.0050066

S Ryglewski

Development and accomplishment of experiments, data acquisition and analysis

C Duch

Advisor, helped developing the experiments, wrote the manuscript, provided funding and devices

HJ Pflüger

Provided funding, laboratory space and devices, provided fruitful discussions during the course of the experiments

Support by the German Science Foundation (Pf 128/16-1 to HJ Pflüger and S Ryglewski and Du 331/4-1 to C Duch), and the Arizona State University is gratefully acknowledged.

Chapter 2: Ryglewski S, Duch C (ready for submission) Potassium currents of an identified adult *Drosophila* motoneuron *in situ*.

S Ryglewski

Development and accomplishment of experiments, data acquisition and analysis, wrote the manuscript

C Duch

Advisor, helped developing the experiments, provided funding

RB Levine

Provided all fly strains used in this study, provided fruitful discussions during the course of the experiments

HJ Pflüger

Provided laboratory space and devices

Support by grants of the German Science Foundation (DFG, Du 331/5-1 to C Duch and Graduate College 837 to S Ryglewski and C Duch), by funds from the Arizona State University to C Duch and S Ryglewski.

Chapter 3: Duch C, Vonhoff F, Ryglewski S (2008, in preparation) Dendrite elongation and dendritic branching are separately affected by different forms of intrinsic motoneuron activity.

C Duch

Experimental design, accomplishment of behavioral experiments including analysis as well as neuronal reconstructions, provided funding, wrote the manuscript

F Vonhoff

Accomplished behavioral experiments and reconstructions, including analysis

S Ryglewski

Design and accomplishment of electrophysiological experiments including analysis.

RB Levine

Provided all fly strains used in this study, provided fruitful discussions on the manuscript and during the course of the experiments

HJ Pflüger

Provided laboratory space and devices

Support by grants of the German Science Foundation (DFG, Du 331/5-1 to C Duch and Graduate College 837 to S Ryglewski and C Duch), by funds from the Arizona State University to C Duch and S Ryglewski. F Vonhoff was supported by a fellowship on the Interdisciplinary Neuroscience Graduate Program at Arizona State University.