**Index of Notation**

1. LFP – Local Field Potential
2. FrA – Frontal field A
3. IR – Infrared
4. MATLAB – MathWorks
5. kHz – kilo Hertz
6. V – volts
7. mV – millivolts
8. ADC – Analog to Digital Converter
9. DAC – Digital to Analog Converter
10. ms – milliseconds
11. LIN – Leibniz Institute of Neurobiology
12. SPL – Systems Physiology