**Abbreviations:**

SD - Spreading Depolarization

mTBI - mild Traumatic Brain Injury

iOS - intrinsic optical signals

NAD(P)H - Nicotinamide adenine dinucleotide phosphate

FADH - flavin adenine dinucleotide

ROI - region of interest

A.U. - arbitrary units

COSBID - Co-Operative Studies on Brain Injury Depolarizations

IACUC - Institute Animal Care and Use Committee