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Master's Thesis
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DEDICATION 献给

My parents: Guoqiang Yang, Youru Zhou 我的父母: 杨国强, 周幼如

My friends who have been helping me 一直在帮助着我的朋友们

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LIST OF ABBREVIATIONS

Traumatic brain injury (TBI)

Arachidonic acid (AA)

Platelet activating factor (PAF)

Reactive oxygen species (ROS)

Distilled, deionized H₂O (DD H₂O)

Paraformaldehyde (PFA)

PBS-0.03%Triton (PBS-T)

Phosphate buffer saline (PBS)

Sodium dodecyl sulfate (SDS)

Immunoreactivity (IR)

Glial fibrillary acidic protein (GFAP)

kainic acid (KA)

Excitatory amino acids (EAA)

Oxygen and glucose deprivation (OGD)

Cerebrospinal fluid (CSF)

Secretory PLA₂ (sPLA₂)

Ca²⁺-independent PLA₂ (iPLA₂)

Platelet activating factor acetyl hydrolase (PAF-AH)

Protein kinase C (PKC)

Mitogen-activating protein kinase (MAPK)

Electromagnetic impact (EMI)