Diversifying and Strengthening Translational Animal Models of Newborn Brain Injuries

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Message from the Guest Editors

Dear Colleagues,

The developmental brain injury field is unique within the arena of translational neuroscience, as it has a well-defined and successful pipeline of preclinical models with which to understand the mechanisms of newborn brain injury and develop potential neurotherapeutics. However, while this is particularly true for acute term hypoxic–ischemic (HI) brain injury, preclinical models of premature brain injury and other pathological causes of, or risk factors for, neonatal brain injury have yet to show robust clinical translation. At the same time, the field has not routinely controlled for critical variables in preclinical rodent models that can affect internal and external validity. This special issue of Life include but is not limited to the following research:

1) expands and diversifies the preclinical pipeline of animal models in newborn brain injury,

2) brings promising therapeutics closer to translation through more clinically relevant or better-controlled experiments,

3) provides methods that can increase the external validity of rodent models of brain injury.

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Message from the Editor-in-Chief

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