

Special Issue

Diversifying and Strengthening Translational Animal Models of Newborn Brain Injuries

Message from the Guest Editors

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.

Guest Editors

Dr. Thomas R. Wood

1. Division of Neonatology, Department of Pediatrics, University of Washington, Seattle, WA 98195, USA
2. Center on Human Development and Disability, University of Washington, Seattle, WA 98195, USA

Dr. Hemmen Sabir

Neonatology and Pediatric Intensive Care, University of Bonn, School of Medicine, University Hospital Bonn, 53127 Bonn, Germany

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona
Institute of Science and Technology, 08028 Barcelona, Spain

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