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Impaired oxygen supply (hypoxia) or reduced blood flow (ischemia) to the brain causes significant metabolic changes in neuronal and non-neural cells. It first leads to a rapid change in membrane lipid composition and enzyme activities and then to long-term changes in gene expression and levels

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of protein synthesis.

**Editorial: Brain Hypoxia and  
Ischemia: New Insights Into ...**

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membrane lipid composition and enzyme activities and then to long-term changes in gene expression and levels of protein synthesis.

**Frontiers | Editorial: Brain Hypoxia and Ischemia: New ...**

Insights from ischemia research The high energy requirements compared to

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the low energy reserves render the brain particularly vulnerable to hypoxic conditions. To protect the brain against hypoxia, powerful cerebrovascular regulatory systems assure an increase of blood flow to compensate for the reduced arterial oxygen content.

## **The hypoxic brain. Insights from**



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**ischemia research**

This Research Topic aims at a multifaceted approach to evaluate recent progress in our understanding of the effects of hypoxia and ischemia on the brain at the molecular, morphological and physiological levels and how preconditioning by intermittent mild hypoxia can protect the brain

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improving its functioning and reducing pathology.

**Brain hypoxia and ischemia: new insights into ...**

Fluid-attenuated inversion recovery (FLAIR), cerebral blood flow (CBF), cerebral oxygen metabolism (CMRO 2), oxygen extraction fraction (OEF),

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ischemic brain volume (IBV), fluorine 18-labeled fluoromisonidazole ([<sup>18</sup>F]FMISO) trapping rate ( $k_3$ ), and hypoxic brain volume (HBV) are shown in patient 10, who sustained a head injury after a fall. During imaging, cerebral perfusion pressure was 82 ...

## **Cerebral Ischemia and Diffusion**

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**Hypoxia in Traumatic Brain ...**

←Pediatrician's Guide to Discussing  
Research with Patients → Inflammatory  
Bowel Disease: Diagnosis and  
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**Brain Hypoxia and Ischemia: With  
Special Emphasis on ...**

A model of transient global brain

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ischemia consisting of bilateral occlusion of common carotid arteries for 10 min and mild hypoxia (15% O<sub>2</sub> –85% N<sub>2</sub>) for 20 min was studied by means of MRI in young and aged Fischer 344 rats (3–4 and 24–26 months, respectively).

## **Transient global brain ischemia in young and aged rats ...**

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The severity of the hypoxic-ischemic insult was assessed as previously described, by calculating the time-integral of the depletion of [NTP]/[EPP] from the onset of hypoxia-ischemia until 1 h ...

## **Magnesium Sulfate after Transient Hypoxia-Ischemia Fails ...**

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Mild cerebral hypoxia-ischemia produces a sub-acute transient inflammatory response that is less selective and prolonged after a substantial insult. Min Qiao. MR Technology, National Research Council Institute for Biomedical Research (West), Calgary, Alberta, Canada. Search for more papers by this author.

**Mild cerebral hypoxia-ischemia produces a sub-acute ...**

Hypoxic-ischemic encephalopathy in adults and older children (i.e. not neonates), also known as global hypoxic-ischemic injury, is seen in many settings and often has devastating neurological sequelae.. For a discussion of neonatal hypoxia, refer to neonatal hypoxic-



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ischemic encephalopathy.

### **Hypoxic-ischemic encephalopathy (adults and children ...**

The expression of c-Fos, c-Jun and Hsp70 was examined in the hippocampus at 6, 12, 24, 48, 72 h, 4, 7 and 42 days following a combination of unilateral common carotid artery ligation and 60

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min of systemic hypoxia (8% oxygen, 92% nitrogen) in 25-day-old male rats.

**The effects of hypoxia-ischemia on expression of c-Fos, c ...**

Hypoxic-ischemic (HI) brain injury in infants is a leading cause of lifelong disability. We report a novel pathway mediating oxidative brain injury after

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hypoxia-ischemia in which C1q plays a central role. Neonatal mice incapable of classical or terminal complement activation because of C1q or C6 de ...

**Complement component c1q  
mediates mitochondria-driven ...**

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Brain ischemia, also known as cerebral ischemia or cerebrovascular ischemia, occurs when there is an insufficient amount of blood flow to the brain.

Oxygen and vital nutrients are carried in the blood through arteries, which are the blood vessels that carry oxygen and nutrient-rich blood to every part of the body.

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## **Brain Ischemia Types and Causes - Verywell Health**

Cerebral hypoxia is a form of hypoxia (reduced supply of oxygen), specifically involving the brain; when the brain is completely deprived of oxygen, it is called cerebral anoxia. There are four categories of cerebral hypoxia; they are,

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in order of severity: diffuse cerebral hypoxia (DCH), focal cerebral ischemia, cerebral infarction, and global cerebral ischemia.

## **Cerebral hypoxia - Wikipedia**

Brain injury, stroke, and carbon monoxide poisoning are other possible causes of brain hypoxia. The condition

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can be serious because brain cells need an uninterrupted flow of oxygen to function ...

## **Brain Hypoxia: Causes, Symptoms, and Diagnosis**

The progress of neuronal autophagy in cerebral ischemia stroke: Mechanisms, roles and research methods ...



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Autophagy is a new target in neuronal damage research in ischemic stroke. ... A number of different animal models of ischemic brain injury shows that autophagy is activated and involved in the regulation of neuronal death during ischemic ...

## **The progress of neuronal autophagy**

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**in cerebral ischemia ...**

Within twenty-four hours following neonatal hypoxia-ischemia, there is massive ipsilateral hippocampal and cortical damage as previously reported 38. Ex-vivo MRI imaging of mouse brains at p8 reveals T2-weighted and diffusion-weighted hyperintensity and decreased fractional anisotropy in the ipsilateral

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cortex and hippocampus ( Figure 3A ).

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