



Understanding the Molecular Mechanisms of Retinal Ganglion Cell Death after Optic Nerve Damage

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Message from the Guest Editor

Dear Colleagues,

The optic nerve is a bundle of axons from retinal ganglion cells (RGCs). Once it is injured, retrograde axonal degeneration occurs, and RGCs finally fall into cell death. Clinically, most optic neuropathies are still resistant to treatments, and beneficial regimens have yet to be established. A variety of animal models, including glaucoma, traumatic optic neuropathy, ischemic optic neuropathy, experimental autoimmune encephalomyelitis, etc., has been applied to elucidate pathological mechanisms. Notably, it has been suggested that RGC death is linked to inflammatory reaction, autophagy, oxidative reaction, mitochondrial dysfunction, and glucose and lactate metabolisms. This Special Issue explores recent advances in order to understand molecular mechanisms of RGC death better and solicits novel perspectives by expert review.

Dr. Takuji Kurimoto
Guest Editor





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Message from the Editor-in-Chief

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