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Biology of Retinal Ganglion Cells

Guest Editor:

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Deadline for manuscript submissions:

closed (31 July 2022)

Message from the Guest Editor

In neuroscience, retinal ganglion cells (RGCs) have played a major role in the establishment of the fundamental principles governing patterned neuronal network formation and maturation in the central nervous system (CNS). Tremendous progress has been accomplished in recent years with the identification of RGC subpopulations, several of which are anatomically well-characterized, and their role in visual and non-visual functions, in addition to their differential vulnerability to injury.

In this Special Issue of *Cells*, I invite you to contribute with original research articles, reviews, or shorter perspective articles in regard to all aspects related to the theme of the “Biology of Retinal Ganglion Cells”. Expert articles describing mechanistic, functional, cellular, biochemical, or general aspects of retinal ganglion cells are highly welcome. Relevant topics include but are not limited to

- RGC function
- Axonal regeneration
- Neuronal survival
- Gene therapy
- Neuroinflammation
- Neuronal development
- Retinogenesis
- Retinotectal projection
- The optic nerve
- Glaucoma
- Multiple sclerosis
- Gene therapy
- Cell therapy



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Special Issue



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Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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