Special Issue

Advances in Visual Neuroscience

Message from the Guest Editor

Visual neuroscience is a branch of neuroscience that focuses on the visual system of the human body, mainly located in the eye and brain's visual cortex. The main goal of visual neuroscience is to understand how neural activity results in the final visual perception, from the time when light stimuli hit the retina to the visual perception of the surroundings. Vision perception is a sense related to retinal function, where retinal photoreceptors, bipolar and horizontal cells, and retinal ganglion cells that form the optic nerve are interconnected and supported by the retinal pigment epithelium and the downstream neurons in the visual cortex. This Special Issue will cover recent research advances in all aspects of vision neurosciences. In particular, the topics of interest include, but are not limited to:

- Visual system;
- Visual impairment;
- Visual disfunction;
- Blindness;
- Neurophysiology;
- Sensory system;
- Eye;
- Retinal development;
- Retinal organoid;
- Photoreceptors;
- Cell therapies, including stem cell therapy;
- Optogenetics;
- Gene therapy.

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2023)

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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