Special Issue

Effects of Optical and Behavioral Factors on the Ocular Accommodation Response

Message from the Guest Editors

The accommodative response is a relevant ability since it allows to see clearly at different distances and, thus, it is of vital importance in numerous contexts. The pathway for accommodation consists of the midbrain areas of the Edinger-Westphal nucleus, pretectal nucleus, and the III cranial nerve, which is involved in transmitting parasympathetic neural commands to the ciliary muscle for driving the accommodative response. It has been observed that the magnitude and variability of accommodation are influenced by behavioral factors, such as the arousal and attention state, mental stress, mood shifts, motivation, fatigue, and cognitive effort. This Special Issue aims to collect articles focused on the effects of behavioral factors on the accommodative response and its consequences in applied contexts. especially in activities performed at near working distances (e.g., computer work, reading, etc.). We are also keen to include articles that aim to elucidate the possible mechanisms underlying the influence of central nervous system alterations on ocular accommodation. Review articles, original research papers, and case studies are all welcome.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2025)



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About the Journal

Message from the Editor-in-Chief

Vision research has developed tremendously over the last years and has been well served by some of the available journals. We feel that a new journal, with no historical or societal affiliations, offers a chance for a broad interdisciplinary coverage and a means of highlighting the increasing number of interesting results and ideas. We are therefore convinced that the launch of a truly interdisciplinary journal in the area of vision science is worthwhile, timely and necessary. *Vision* is a journal for, and by, all vision scientists, committed to the advancement of their field of interest.

Editor-in-Chief

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