

Special Issue

Advances in Ocular Surface Research: Exploring Antimicrobial Resistance and Emerging Therapeutics

Message from the Guest Editors

The ocular surface, comprising the cornea, conjunctiva, tear film, and associated glands, plays a vital role in maintaining visual health and protecting the eye from microbial threats. However, the rise in antimicrobial resistance (AMR) presents a growing challenge for treating ocular infections such as keratitis, conjunctivitis, and blepharitis. As bacterial, viral, and fungal pathogens develop resistance to conventional therapies, the burden of ocular surface disease increases, often leading to severe visual impairment or blindness in affected patients. Despite advancements in ophthalmic care, there is a critical need to develop a deeper understanding of the interplay between the ocular surface microbiome, host immune response, and pathogen evolution in the context of AMR. Additionally, novel strategies, including the development of innovative antimicrobials, biofilm-targeting agents, and personalized medicine approaches, are promising for combating AMR-associated ocular infections. This Special Issue aims to focus on the latest clinical and translational research addressing ocular surface disorders and antimicrobial resistance.

Guest Editors

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