Special Issue

Technologies for Objective Assessment of Dry Eye Disease

Message from the Guest Editors

Dry eye disease (DED) is a multifactorial condition of the lacrimal functional unit causing loss of homeostasis of the tear film, which is usually accompanied by symptoms. During the last two decades, most of clinical trials failed to get regulatory approval. The TFOS DEWS II Clinical Trial Design Report stated that the main reason could be the lack of correlation between DED signs and symptoms. Thus, choosing an appropriate primary endpoint is essential for success. However, inherent variability is associated with most of the common DED signs because they are usually evaluated by an observer.

This Special Issue will address the current scientific developments carried out to increase the reliability of the clinical signs assessing DED. Papers are invited that investigate new or previous technology to increase the reliability of DED clinical signs. Topics of interest include the following: studies on image analysis of the DED signs commonly observed in the ocular surface, lids, and Meibomian glands; studies on the application of technology, either commonly used in ophthalmic settings or not, to describe clinical signs that could be used to objectively assess DED.

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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.

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