Special Issue

Potential Biomarkers in Tears

Message from the Guest Editor

Tear biomarkers are playing an increasingly important role in the field of predictive, preventative and personalized medicine. Through proteomic, metabolomic, and lipidomic analysis, several molecules and/or panels of a combination of several of them have been pointed out as promising biomarkers in several ocular diseases, particularly in dry eye disease, but also in several others such as ocular chronic allergy, glaucoma, keratoconus, keratopathy, keratitis, trachoma, aniridia or uveitis among others. Additionally, biomarkers have proven their usefulness in systemic diseases such as diabetic retinopathy, systemic sclerosis, cystic fibrosis, cancer, or in neurological disorders such as multiple sclerosis or Parkinson's disease. Tear biomarkers can serve as indicators of disease severity, activity or therapeutic response, and they are considered as good candidates to be used as objective evaluation endpoints for objective monitoring in clinical trials.

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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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