



Journal of Ophthalmology

Special Issue on
**Evidence-Based Precision Medicine in
Ophthalmology**

CALL FOR PAPERS

There is growing emphasis on evidence-based precision medicine in ophthalmology, leading to the rising need and use of statistics. A variety of statistical methods are currently used in the analyses of ophthalmic research data, moving beyond merely descriptive summaries observed three decades ago. Advances in data collection technologies also provide exciting opportunities to study different facades of etiology and pathology of eye diseases but at the same time pose statistical challenges in data analyses. With growing data, it is becoming important to integrate and handle complex data structure coming from various sources (e.g., protein, genetics, and imaging). The era of big data allows us to treat targeted patients precisely.

The aim of this special issue is to bring about a current discussion on the use of statistics in ophthalmology research, explaining and simplifying statistical concepts and advance methods to aid clinicians and scientists to leverage on statistics in evidence-based research. We invite clinicians and scientists to contribute original research, clinical study, and review articles that are relevant to statistical methods or issues in precision ophthalmology research. This special issue covers a very wide range of topics, such as the application of advanced methods developed or modified for precision ophthalmology, notes on proper use of advanced statistics techniques (or commonly misunderstood concepts), clinical study/showcase of advanced methods applied, comparison of different methods, and discussion of analysis issues.

Potential topics include, but are not limited to:

- ▶ Bayesian analysis
- ▶ Statistical learning in precision diagnosis based on patient features
- ▶ Network analysis of clinical biomarkers, such as protein, gene, and imaging
- ▶ Integration of retinal imaging biomarkers
- ▶ Importance ranking of traditional risk factors and value-added effects from potential clinical biomarkers, such as gene and imaging
- ▶ Functional data analysis of genetics and imaging data
- ▶ Publication and citation analysis
- ▶ Current analysis issues

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/joph/smbd/>.

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