Ophthalmology

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Major Scientific Interests of the Group
To investigate quality of vision and life in patients with ocular diseases. To improve outcomes of ocular therapies especially surgical treatments.

Projects for Regular Students in Doctoral or Master's Programs
1) Development of artificial vitreous and its clinical application
2) Comprehensive assessment and improvement of visual function in patients after cataract and vitreo-retinal surgery
3) Development of new generation of optical coherence tomography
4) Assessment of surgical outcomes of new intraocular lenses
5) Suppression of myopia progression in children
6) Establishment of infrastructure for artificial and big data study in ophthalmology
7) Development voltage-controlled accommodating intraocular lens

Study Programs for Short Stay Students (one week – one trimester)
1) To learn the methods to comprehensively assess visual function of patients rather than visual acuity
2) To understand how to improve outcomes of cataract surgery using premium intraocular lenses

Selected Publications
3) Hayashi K, Okamoto F, Hoshi S, Katashima T, Zujur DC, Li X, Shibayama M, Gilbert EO, Chung U, Ohba S,


