


List of courses available for graduate students (Wakayama Medical University)

	Course name (Press the name to jump to the link)	Professor name (Press the name to jump to the link)		Acceptable number of people	Research theme	Message from Professor
	Ophthalmology	Prof. Shizuya Saika , M.D., Ph. D.		10 or less	<p>Major research activities include;</p> <ol style="list-style-type: none"> 1, Molecular biology of tissue repair in cornea, conjunctiva, lens and retina 2, Clinical aspects of neurotrophic keratopathy and molecular biology in its mouse model 3, Clinical aspects of dry eye and molecular biology in its mouse model 4, Clinical aspects of age-related macular degeneration and molecular biology in its mouse model 	<p>We are engaged in both clinical and basic science research in tissue repair reaction in the eye. Our major strategies in basic science research depends on tissue specific conditional mutant mouse lines and in vitro research by using cultures of the cells derived from mutant mice. One of the advantage of our department is to available world-wide networks with prestigious laboratories involved in research on similar topics.</p> <p><u>Recent Publications</u></p> <p>Okada Y, Sumioka T, Reinach PS, Miyajima M, Saika S. Roles of Epithelial and Mesenchymal TRP Channels in Mediating Inflammatory Fibrosis. <i>Front Immunol.</i> 12: 731674, 2022</p> <p>Sumioka T, Iwanishi H, Okada Y, Miyajima M, Ichikawa K, Reinach PS, Matsumoto KI, Saika S. Impairment of corneal epithelial wound healing is associated with increased neutrophil infiltration and reactive oxygen species activation in tenascin X-deficient mice. <i>Lab Invest.</i> 101: 690-700, 2021</p> <p>Yasuda S, Sumioka T, Iwanishi H, Okada Y, Miyajima M, Ichikawa K, Reinach PS, Saika S. Loss of sphingosine 1-phosphate receptor 3 gene function impairs injury-induced stromal angiogenesis in mouse cornea. <i>Lab Invest.</i> 101: 245-257, 2021</p> <p>Takada Y, Sumioka T, Nakagawa M, Saika S. Long-term intraocular pressure after switching a combination ophthalmic medication of beta-blocker/prostaglandin. <i>Taiwan J Ophthalmol.</i> 10: 95-99, 2020</p> <p>Takada Y, Yamanaka O, Okada Y, Sumioka T, Reinach PS, Saika S. Effects of a prostaglandin F2alpha derivative glaucoma drug on EGF expression and E-cadherin expression in a corneal epithelial cell line. <i>Cutan Ocul Toxicol.</i> 6: 1-8, 2020</p>