

CURRICULUM VITAE
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Research and professional experience:

2007 - present	Post-doctoral Research Fellow Department of Ophthalmology, University of Rochester (Advisor: Dr. Geunyoung Yoon)
2004- 2007	Graduate student Department of Ophthalmology, Osaka University Medical School (Advisor: Dr. Naoyuki Maeda)
2002 - 2004	Staff Ophthalmologist Department of Ophthalmology Takarazuka Daiichi Hospital, Hyogo, Japan
2000 - 2002	Ophthalmology Resident Department of Ophthalmology, Osaka Seamen's Insurance Hospital, Osaka, Japan
1999 - 2000	Ophthalmology Resident Department of Ophthalmology Osaka University Medical School, Osaka, Japan

Education

2004 - 2008	Osaka University Medical School, Osaka, Japan	Ph.D.
1993- 1999	Osaka University Medical School, Osaka, Japan	M.D.

License and Certification

Medical license	: #6355, 1999, Japan
Board of Ophthalmology	: #14781, 2004, Japan

Awards and Honors

- October 11, 2007: 2007 Dry Eye Research Award.
October 5, 2006: 2006 Alcon Japan Clinical Award.

Societies:

Association for Research in Vision and Ophthalmology
American Academy of Ophthalmology
American Society of Cataract and Refractive Surgery
European Society of Cataract & Refractive Surgeons
International Society of Refractive Surgery
International Society of Darcryology and Dry Eye
Tear Film & Ocular Surface Society
Japanese Ophthalmology Society
Japan Ophthalmologists Association
Japan Contact Lens Society
Japan Cornea Society
Japan Dry eye Society

Clinical practice and accomplishments

- clinical application of wavefront analysis
- dry eye and tear film dynamics
- management of corneal /ocular surface diseases

Research interests

- tear film dynamics and dry eye
- wavefront sensing and optics
- visual function related with ocular surface
- presbyopia and intraocular lens

PUBLICATIONS**(A) Journals**

1. Hori Y, Maeda N, Sakamoto M, Koh S, Inoue T, Tano Y: Bacteriologic profile of the conjunctiva in the patients with dry eye. *Am J Ophthalmol (in press)*
2. Koh S, Maeda N, Hori Y, Inoue T, Watanabe H, Hirohara Y, Mihashi T, Fujikado T, Tano Y: Effects of suppression of blinking on quality of vision in borderline cases of evaporative dry eye. *Cornea* 27:275-278, 2008
3. Koh S, Maeda N, Hamano T, Hirohara Y, Mihashi T, Hori Y, Hosohata J, Fujikado T, Tano Y: Effect of internal lubricating agents of disposable soft contact lenses on higher-order aberrations after blinking. *Eye Contact Lens* 34:100-105, 2008
4. Koh S, Maeda N, Hirohara Y, Mihashi T, Bessho K, Hori Y, Inoue T, Watanabe H, Fujikado T, Tano Y: Serial measurements of higher-order aberrations in patients with dry eye. *Invest Ophthalmol Vis Sci* 49:133-138, 2008
5. Koh S, Maeda N: Wavefront sensing and dynamics of tear film. *Cornea* 26: S41-S45, 2007
6. Hirohara Y, Mihashi T, Koh S, Ninomiya S, Maeda N, Fujikado T: Optical quality of the eye degraded by time-varying wavefront aberrations with tear film dynamics. *Jpn J Ophthalmol* 51:258-264, 2007
7. Koh S, Hosohata J, Tano Y: Bilateral upper eyelid ectropion associated with blepharospasm. *Br J Ophthalmol* 90: 1437-1438, 2006
8. Koh S, Maeda N, Hirohara Y, Mihashi T, Ninomiya S, Bessho K, Watanabe H, Fujikado T, Tano Y: Serial measurements of higher-order aberrations after blinking in normal subjects. *Invest Ophthalmol Vis Sci* 47:3318-3324, 2006
9. Koh S, Maeda N, Ninomiya S, Watanabe H, Fujikado T, Tano Y, Hirohara Y, Mihashi T: Paradoxical increase of visual impairment with punctal occlusion in a patient with mild dry eye. *J Cataract Refract Surg* 32:689-691, 2006
10. Mihashi T, Hirohara Y, Koh S, Ninomiya S, Maeda N, Fujikado T: Tear film break-up

evaluated by real time Hartmann-Shack wavefront sensing. *Jpn J Ophthalmol* 50:85-89, 2006

11. Koh S, Watanabe H, Hosohata J, Hori Y, Hibino S, Nishida K, Maeda N, Tano Y: Diagnosing dry eye using a blue-free barrier filter. *Am J Ophthalmol* 136:513-519, 2003
12. Koh S, Horimoto K, Danjo Y, Okada M, Suguri S, Harada M: A case of human thelaziasis in a resident of Osaka City. *Folia Ophthalmol Jpn* 54:47-50, 2003 [in Japanese]
13. Koh S, Maeda N, Kuroda T, Hori Y, Watanabe H, Fujikado T, Tano Y, Hirohara Y, Mihashi T: Effect of tear film break-up on higher-order aberrations measured with wavefront sensor. *Am J Ophthalmol* 134:115-117, 2002
14. Saito T, Inoue Y, Koh S, Nishida K, Maeda N, Watanabe H, Tano Y: A case of trophic corneal ulcer caused by frequent instillation of pranoprofen. *Folia Ophthalmol Jpn* 53:722-726, 2002 [in Japanese]

(B) Reviews

1. Koh S: Dynamics of tear film and higher-order aberrations. *J Eye* 24: 1461-1466, 2007 [in Japanese]
2. Koh S, Maeda N: Wavefront sensor. *Ganka* 49:1289-1296, 2007 [in Japanese]
3. Koh S: Dry eye in children. *Pediatrics* 48:791-794, 2007 [in Japanese]
4. Koh S: Recurrent corneal erosion. *Folia Ophthalmol Jpn* 58:63-64, 2007 [in Japanese]
5. Koh S: Chronic graft-versus-host disease dry eye. *Folia Ophthalmol Jpn* 57:801-802, 2006 [in Japanese]
6. Koh S, Maeda N: Contrast sensitivity. *Ganka* 48:55-62, 2006 [in Japanese]
7. Koh S: Smart PLUG. *Japanese Journal of Ophthalmic Surgery* 19:43-45, 2006 [in Japanese]

Japanese]

8. Koh S: Treatment of dry eye. In: Ophthalmic Caring. Medica publishing, Osaka, pp1028-1032, 2004 [in Japanese]
9. Koh S, Watanabe H: Key to eyedrop treatment for dry eye. *J Eye* 20: 17-22, 2003[in Japanese]

(C) Books and book chapters

1. Koh S: Insertion of punctal plug my opinion. In:Tsubota K, Frontiers in Dry Eye., Medicalreview, Osaka, pp93-94, 2007 [in Japanese]
2. Koh S: Blue-free barrier filter. In: Tano Y, Hida T. (Eds.) Today's therapy in ophthalmology. 2nd ed, Igakushoin, Tokyo, pp666-667, 2007 [in Japanese]
3. Koh S: Ocular surface vital dye staining tests. In: Tano Y, Hida T. (Eds.) Today's therapy in ophthalmology. 2nd ed, Igakushoin, Tokyo, pp664-666, 2007 [in Japanese]
4. Koh S: Treatment of corneal irregular astigmatism by punctal plugs. In:Tano Y, Hida T, Negi A, Tsubota K & Oshika T. (Eds.) Essence of corneal surgery. Bunkodo, Tokyo, pp 180-181, 2007 [in Japanese]
5. Koh S: Ocular surface vital dye staining tests. In: Maruo T, Honda J, Usui M & Tano Y. (Eds.) Complete guide of ophthalmic examination. Bunkodo, Tokyo, pp 448-453, 2004 [in Japanese]
6. Koh S, Maeda N: Clinical application of wavefront sensor. In: Update medical practice in ophthalmology. Sentaniryō-gijyū-kenkyūsho, Tokyo, pp76-81, 2003 [in Japanese]
7. Koh S: Punctal plug. In: Trouble shooting in ocular surface disease. In: Shimomura Y & Inoue Y. (Eds.) Practical Ophthalmology 101. Bunkodo, Tokyo, pp93-94, 2003 [in Japanese]

PAPERS AND POSTER PRESENTATIONS (English only)

1. Hori Y, Nishida K, Suigiyama H, Soma T, Koh S, Inoue T, Maeda N, Tano Y: Comparison of membrane-associated mucins expression in the human ocular surface and oral mucosal epithelium. 5th International Conference on the Tear Film & Ocular Surface: Basic Science and Clinical Relevance (Taormina. September, 2007)
2. Watanabe H, Soma T, Koh S, Nishida K, Maeda N: Epithelial damage of the conjunctiva in Sjogren syndrome is not restored by standalization of tear volume. 5th International Conference on the Tear Film & Ocular Surface: Basic Science and Clinical Relevance (Taormina. September, 2007)
3. Koh S, Maeda N, Hori Y, Inoue T, Watanabe H, Hirohara Y, Mihashi T, Fujikado T, Tano Y: Serial measurements of higher-order aberrations after blinking in subjects with short tear film break-up time. The Association for Research in Vision and Ophthalmology, Annual Meeting. (Fort Lauderdale. May, 2007)
4. Koh S, Maeda N, Hirohara Y, Mihashi T, Bessho K, Hori Y, Watanabe H, Hosohata J, Fujikado T: Serial measurements of higher-order aberrations in patients with dry eye. American Academy Ophthalmology, Annual Meeting. (Las Vegas. November, 2006)
5. Koh S, Maeda N, Hamano T, Hirohara Y, Mihashi T, Bessho K, Hori Y, Hosohata J, Fujikado T: Effect of wettability of disposable soft contact lenses on higher-order aberrations. American Academy Ophthalmology, Annual Meeting. (Las Vegas. November, 2006)
6. Maeda N, Kosaki R, Bessho K, Koh S, Hori Y, Nishida K, Fujikado T, Hirohara Y, Mihashi T: Residual irregular astigmatism during rigid gas permeable (RGP) contact lens wear in patients with keratoconus. American Academy Ophthalmology, Annual Meeting. (Chicago. October, 2005)
7. Koh S, Maeda N, Ninomiya S, Bessho K, Watanabe H, Fujikado T, Tano Y, Hirohara Y, Mihashi T: Serial measurements of higher-order aberrations after blinking in normal subjects. The Association for Research in Vision and Ophthalmology, Annual Meeting. (Fort Lauderdale. May, 2005)

8. Mihashi T, Hirohara Y, Koh S, Ninomiya S, Howland HC, Maeda N, Fujikado T: Principle component analysis of consecutively measured wavefront aberrations. The Association for Research in Vision and Ophthalmology, Annual Meeting. (Fort Lauderdale. May, 2005)
9. Koh S, Watanabe H, Nishida K, Maeda N, Hayashi H, Tano Y: Punctal plug occlusion for the treatment of the epithelial keratitis after keratoplasty. 8th Congress of the International Society of Darcryology and Dry Eye. (Madrid. April, 2005)
10. Hirohara Y, Mihashi T, Koh S, Ninomiya S, Maeda N, Fujikado T: Optical quality of time-varying wavefront aberrations after blink. 6th International congress on wavefront sensing and optimized refractive corrections. (Athens. February, 2005)
11. Koh S, Watanabe H, Hori Y, Tano Y: Efficacy of resection of punctual ring combined with thermocautery and suturing puncta for permanent occlusion. 4th International Conference on the Lacrimal Gland, Tear film and Dry eye Syndromes. (Puerto Rico. November, 2004)
12. Watanabe H, Koh S, Hori Y, Tano Y: Diagnosis of dry eye with a blue-free barrier filter. 4th International Conference on the Lacrimal Gland, Tear film and Dry eye Syndromes. (Puerto Rico. November, 2004)
13. Watanabe H, Soma T, Koh S, Nishida K, Maeda N, Tano Y: Difference of the epithelial recovery of the conjunctiva between Sjögren and non-Sjögren dry eye by punctal plug. The Association for Research in Vision and Ophthalmology, Annual Meeting. (Fort Lauderdale. May, 2004)
14. Watanabe H, Koh S, Hori Y, Nishida K, Maeda N, Tano Y: Efficacy of Using a Blue-free Barrier Filter with Fluorescein Staining in Classifying the Degree of Damage of the Conjunctival Epithelium in Dry Eyes. The Association for Research in Vision and Ophthalmology, Annual Meeting. (Fort Lauderdale. May, 2003)
15. Koh S, Watanabe H, Hibino S, Nishida K, Maeda N, Hosohata J, Tano Y: Evaluation of conjunctival fluorescein staining in dry eye with blue-free filter. 29th

International Congress of Ophthalmology. (Sydney. April, 2002)

16. Koh S, Maeda N, Hori Y, Kuroda T, Nishida K, Watanabe H, Inoue Y, Tano Y, Mihashi T: The effect of tear film break-up on higher-order aberrations measured with wavefront sensor. The Association for Research in Vision and Ophthalmology, Annual Meeting. (Fort Lauderdale. May, 2001)
17. Hori Y, Maeda N, Kuroda T, Koh S, Nishida K, Watanabe H, Inoue Y, Tano Y, Mihashi T: Measurement of wavefront aberrations in the patients with dry eye. The Association for Research in Vision and Ophthalmology, Annual Meeting. (Fort Lauderdale. May, 2001)
18. Koh S, Matsuda H, Hori Y, Watanabe H: Electrodesiccation with punctal ring resection and epithelial debridement is very effective for permanent punctal occlusion. 3rd International Conference on the Lacrimal Gland, Tear film and Dry eye Syndromes. (Maui. November, 2000)
19. Hori Y, Danjo Y, Hibino S, Koh S, Watanabe H: Long term effect of punctal occlusion for the treatment of dry eye syndrome. 3rd International Conference on the Lacrimal Gland, Tear film and Dry eye Syndromes. (Maui. November, 2000)

INVITED LECTURES

1. Koh S: award lecture: Serial Measurements of Higher-order Aberrations after Blinking in Normal Subjects. 2007 Dry Eye Research Award, 61th Congress of Clinical Ophthalmology of Japan. (Kyoto, October, 2007)
2. Koh S: symposium: Contact lens and quality of vision. 61th Congress of Clinical Ophthalmology of Japan. (Kyoto, October, 2007)
3. Koh S: symposium: Sequential changes of higher-order aberrations after blinking in dry eye. 111th annual meeting of Japanese Ophthalmological Society. (Osaka, April, 2007)
4. Koh S: symposium: Wavefront sensing and dynamics of tear film. 12th Kyoto Corneal Club Meeting. (Tokyo, December, 2006)

5. Koh S: symposium: Proper technique for punctal plugs and recent advances. 60th Congress of Clinical Ophthalmology of Japan. (Kyoto, October, 2006)

6. Koh S: symposium: Sequential wavefront measurement following blinking and analysis with tear film dynamics. 59th Congress of Clinical Ophthalmology of Japan. (Sapporo, October, 2005)