

Yaron Rabinowitz, M.D.

Abbreviated Curriculum Vitae

Clinical Appointments:

Chairman, Division of Ophthalmology,
Cedars-Sinai Medical Center, Los Angeles, California 1996-2001

Founding Director, Laser-Eye Associates
Cedars-Sinai Mark Goodson Building and Beverly Hills California 2002- present

Founding Director, Eye Surgery Center of Beverly Hills
Beverly Hills California 2006- present

Academic Appointments:

Clinical Professor,
Department of Ophthalmology
(Jules Stein Eye Institute, U.C.L.A. School of Medicine)

Director of Ophthalmology Research and
The Ocular Genetics Research Program,
Cedars-Sinai Medical Center.

Charitable Boards:

Medical Director and Founder
of the Eye Defects Research Foundation
Member, Board of Governors, Cedars-Sinai Medical Center

Clinical Investigator:

Clinical Trial to determine the efficacy of corneal collagen cross-linking,
a new treatment for Keratoconus
Eye Defects Research Foundation, Inc.
Keratoconus Genetics Research Program,
National Eye Institutes of Institutes of Health 1993- present

Mentor: NIH funded KO8 Grant

Mapping Ocular Genes in Down Syndrome

Custom Cornea Clinical Trials,

FDA study, Alcon/Autonomous LADARvision system

Hyperopic Astigmatism Study,

FDA study, Visx INC

Myopia and Hyperopia LASIK Study

FDA study, Autonomous Technologies Inc.

Academic Honors & Awards:

2013	The Whitney Sampson Named Lecturer. CLAO/American Academy of Ophthalmology
2013	The Joseph Sassani Distinguished Penn State Alumnus Named Lecture
2011	Appointed to Editorial Board of International Journal of Keratoconus
2010	Appointed to the Editorial Board of EyeNet, American Academy of Ophthalmology
2009	Publication
2008	American Academy of Ophthalmology Senior Honor Award
2007	Organizing committee CORNEA day American Academy of Ophthalmology
	Appointed to Cornea Compass Panel – Educational Arm Of the American Academy of Ophthalmology
	Chair – Ectasia Symposium – Pan American Association of Ophthalmology
	Organizing Committee – Cornea Subspecialty Day – American Academy of Ophthalmology
2006	Joint Chair – ISRS Symposium – American Academy of Ophthalmology
	International Society of Refractive Surgery and American Academy of Ophthalmology –
2005	Michael Kritzinger Award for Excellence and contributions to the field of Refractive
2004	Surgery
	Honored Guest French Eye Society, Paris, France Keynote Lecture -Current Concepts
2003	in Keratoconus
2001	(only 3rd American in Society's 100 year history)
2000	Best Paper Award. American Society of Cataract and Refractive Surgery, San Diego,
1999	May 2004
	Elected to the Board of The Cornea Society. (Academic Society representing Cornea
	Specialists worldwide Only one of 12 cornea specialists in the world)
	UCLA Alumni Association Research Award
1997	American Academy of Ophthalmology Honor Award
1994	VISX Star Award, 5% of top refractive surgeon in the USA
1993	Invited panelist, NEI Panel for Postdoctoral Research Students
1990	Invited panelist. Panel for Human Genomics Planning Committee. National Eye
1987	Institutes of Health

1979 Invited panelist. NIH Corneal Diseases Panel. 5 year program planning Committee
National Eye Institutes of Health

1978 U.C.L.A. Alumni Association Research Award

1973 Fisons, Research in Immunology and Contact Lens Award

1972 Contact Lens Association of Ophthalmologists, Research in Immunology and Contact
Lens Award

1971 'Mencion de Honor', Resident Essay Competition, Pan American Association of
Ophthalmology
Shumaker Award for Resident Research in Ophthalmology, Pennsylvania Academy of
Ophthalmology
Invitational essay to commemorate 150th Anniversary of the University of Cape Town
(U.C.T.), Cape Town, South Africa
James T. Louw Prize, Medical student essay, University of Cape Town, South Africa
Senator F.S. Malan Scholarship Academic achievement U.C.T.
Bertha and Ellis Silverman Scholarship, University of Cape Town
Head Student, Herzlia High School, Cape Town and Alfred Honikman Prize for
Leadership

Education:

OCULAR AND MOLECULAR GENETICS FELLOWSHIP:	Wilmer Eye Institute and the Department of Medicine, The Johns Hopkins University, Baltimore, Maryland. 1989-1990.
CORNEA/EXTERNAL DISEASE FELLOWSHIP:	Estelle Doheny Eye Clinic, University of Southern California, Los Angeles, California. 1988-1989.
OPHTHALMOLOGY RESIDENCY:	Pennsylvania State University, Hershey, Pennsylvania. 1985-1988.
FAMILY MEDICINE TRAINING:	Cape Town, South Africa Graduated 1971 Surgery, OB/GYN, Pediatrics, Groote Schuur Hospital and Red Cross Children's Hospital and Private Practice of Medicine Cape Town, South Africa 1981-1984
INTERNSHIP:	Internal Medicine/Surgery, Groote Schuur Hospital, Cape Town, South Africa. 1979-1980
UNIVERSITY & MEDICAL SCHOOL:	University of Cape Town, Groote Schuur Hospital, Cape Town, South Africa 1973-1979

Herzlia High School,
Cape Town, South Africa
HIGH SCHOOL: Graduated 1971

Research Grants (Active)

2015-2020 R01 NEI 09052 - Genetic Factors in Keratoconus, approximately \$4,500,000
2012 Joint CSMC Institutional and Skirball Grant – Generation of iPS cells from limbal corneal cells for transplantation in Ocular Surface Disease(\$90,000)
2012 Skirball grant in Molecular Ophthalmology – Identifying genes for Keratoconus
2012 CTSI Grant – Generation of iPS cells from Stromal Keratocytes (\$10,000)
2009-2011 National Eye Institutes of Health(Supplement)(Principal Investigator) GWAS of Keratoconus in the Latino Population (\$650, 000)
2008-2013 National Eye Institutes of Health: R01 (Principal Investigator) ‘Genes for Keratoconus’
2011-2016 (\$3,400,000)
R01 EY013431-10 (5% Co-Investigator) Mechanisms of Epithelial Alterations in Diabetic Corneas Total Costs approximately \$3,000,000

Research Grants (Past)

2006 - 2008 Eye Birth Defects Research Foundation Grant – ‘Early detection and genetics of Keratoconus’ (\$250,000 annually)
2005 - 2008 Skirball Foundation Grant – Identifying genes in Keratoconus(\$60,000 annually)
2008 California Community Foundation Grant Genes for Keratoconus in the Hispanic population (\$61,000)
2001 - 2007 National Eye Institutes of Health: R01(Renewal) ‘Genes for Keratoconus’ (\$2,800,000)
1999 Mentor: K08 NIH Grant ‘Mapping Ocular Genes in Down Syndrome’
1996 - 2000 March of Dimes- Support for ‘Genetic Disease and the Eye Conference’ (\$5,000)
1993 - 1996 National Eye Institutes of Health: R01 Award (Renewal) ‘Genetic Factors in Keratoconus’ (\$1,700,000)
1993 National Eye Institutes of Health R01 Award ‘Genetic Factors in Keratoconus’ (\$700,000)
1991 Cedars-Sinai Biomedical Research Institute, ‘Young Investigator’s Award’ (\$10,000)
1988 Schoellerman Trust Fund Research in Ophthalmology Award (\$10,000)
Fight for Sight Research to Prevent Blindness, Research Fellowship Award (\$20,000)
Knights Templar Eye Foundation Research Award(\$20,000)
National Keratoconus Foundation Research Award (\$10,000)

Publications:

Scientific Manuscripts

1. Rabinowitz YS,Ladda RL,Sassani JW,Eyster ME: Cosegregation of X linked retinitis pigmentosa and hemophilia
A.American Journal of Ophthalmology 105:46-56,1988.
2. Rabinowitz YS,Ladda RL,Sassani JW,Eyster ME: An approach to a genetic eye disorder.
Trans Penn Acad Ophthalmol 27:453-457,1988.
3. Johnson LN,Rabinowitz YS,Hepler RS: Retinitis pigmentosa presenting as hemianopsia respecting the vertical meridian.
Archives of Neurology 28:43-45,1989
4. Rabinowitz YS,McDonnell PJ: Computerized corneal topography in keratoconus.
Refractive and Corneal Surgery 1989;Vol 5,6:40-408.
5. Smith SG, Rabinowitz YS, Sassani JW, and Smith RE: Keratoconus,Granular and Lattice dystrophies in the same eye
American Journal of Ophthalmology 108:608-9,1989.
6. Rabinowitz YS,McDonnell PJ: Corneal topography of early keratoconus. American Journal of Ophthalmology 108:746-747,1989.
7. Rabinowitz YS,Garbus JJ,McDonnell PJ: Computer-assisted corneal topography in family members of patients with keratoconus.
Archives of Ophthalmology 108:365-371,1990.
8. Rabinowitz YS,Garbus JJ,Garbus C,McDonnell PJ: Contact lens selection for keratoconus using a computer- assisted videophotokeratoscope. CLAO J 1991;17:88-93.
9. Rabinowitz YS,Klyce SD,Krachmer JH et al: Videokeratography,keratoconus,and refractive surgery. Opinions. Refractive and Corneal Surgery.1992;5:403-7.
10. Rabinowitz YS,Maumenee IH,Lundergan MK,Puffenberg E, Zhu D,Antonarakis S,Francomano C: Molecular genetics in autosomal dominant keratoconus. Cornea 11(4):302-308,1992.
11. Sassani JW,Rabinowitz YS,Smith SG: Keratoconus and bilateral Lattice-Granular corneal dystrophies. Cornea 11(4):343-350,1992.
12. Rabinowitz YS,Nesburn AB,McDonnell PJ: Videokeratography of the fellow eye in unilateral keratoconus.
Ophthalmology 1993;100:181-6.
13. Rabinowitz YS.Reply to Husted JD. Detection of keratoconus before keratorefractive surgery.
Ophthalmology 1993;100: page 975
14. Rabinowitz YS.Corneal Topography(Review Article). Current Opinions in Ophthalmology. Current Science.1993,4;IV:69-74.

15. Waring GO, Rabinowitz YS, Sugar J et al: Nomenclature for Keratoconus Suspects. *Opinions. Refractive and Corneal Surgery.* 1993,9;3:219-222.
16. Rabinowitz YS. Reply to Wolfgang-Behrens. Detection of keratoconus before refractive surgery. *Ophthalmology.* 1994;101:5:794-5.
17. Rabinowitz YS. Corneal Topography: Diagnosis and Management of Corneal Disease. *Optometry Today.* 1994;6:14-16.
18. Rabinowitz YS. Corneal Topography: Comanagement: Management of Corneal Astigmatism *Optometry Today.* 1994;7:20-21.
19. Nesburn AB, Bahri S, Salz J, Rabinowitz YS et al: a Keratoconus in photorefractive keratectomy candidates detected by computer-assisted videokeratography. *Refractive and Corneal Surgery.* 1995;11:3:194-201.
20. Rabinowitz YS. Corneal Topography 1994. *Current Opinions in Ophthalmology. Current Science.* 1995;6:4:57-62.
21. Rabinowitz YS. Videokeratography indices to aid in screening for keratoconus. *Refractive and Corneal Surgery.* 1995;11:371-379.
22. Parker J, Ko W, Pavlopoulos G, Wolfe P, Rabinowitz YS, Feldman S. Videokeratography of keratoconus in monozygotic twins *Journal of Refractive Surgery.* 1996;12:180-183.
23. Rabinowitz YS, Yang H, Elashoff J, Akkina J, Rotter J. Videokeratography database of Normal Human Corneas. *British Journal of Ophthalmology.* 1996;80:610-616.
24. Rabinowitz YS. Tangential vs saggital videokeratographs in the 'early' detection of keratoconus. *American Journal of Ophthalmology* 1996;122:6:888-889.
25. Bron A, Rabinowitz YS. Corneal dystrophies and keratoconus. *Current Opinion in Ophthalmology.* 1996,7:IV:71-82.
26. Sczhotka L, Rabinowitz YS, Yang H. The influence of contact lens wear on the topography of keratoconus. *CLAO journal.* 22:4:270-273, 1996.
27. Rabinowitz YS, review of CORNEAL TOPOGRAPHY. *The Clinical Atlas. Lucio Burrato (Editor). American Journal of Ophthalmology* 1997;123:3:431-432.
28. Dibbern K, Rabinowitz YS, Shorr N, Graham J. Surgical correction of incomplete Frasers syndrome. *American Journal of Ophthalmology.* 1997;124:1:107-109

29. Rabinowitz YS. Keratoconus: update and new advances.(Major review). Survey of Ophthalmology. 1998: 42:4:297- 319.
30. Rabinowitz YS,Rasheed K,Yang H,Elashoff J,Rotter J. Accuracy of ultrasonic pachymetry and videokeratography in detecting keratoconus. Journal of Cataract and Refractive Surgery. 1998: 24: 196-201
31. Rabinowitz YS. Keratoconus and corneal dystrophies In: VISION RESEARCH A National Plan: 1999-2003. Report of Corneal Diseases Panel.1998 Pg 43-44 ,54
32. Zaidman G, Rabinowitz YS, Forstot L. Optical Iridectomy for corneal opacities in Peter's Anomaly. Journal of Cataract and Refractive Surgery. 1998;24:719-722
33. Rasheed K, Rabinowitz YS, Remba M, Remba D. Inter and Intra-observer reliability of a classification scheme for corneal topographic patterns. British Journal of Ophthalmology. 1998: 82;1401-06.
34. Rasheed K, Rabinowitz YS. Superficial lamellar keratectomy using the Hansatome for the treatment of severe corneal haze following photorefractive keratectomy Journal of Cataract and Refractive Surgery.1999:25:1184-1186
35. Rasheed K, Rabinowitz YS. Flourescein test to detect stria following Laser-in-situ Keratomeliosis. American Journal of Ophthalmology. 1999:6:717-8.
36. Faktorovich E, Rabinowitz YS. A new technique for penetrating keratoplasty in patients with low scleral rigidity. JCRS 1999:25:882-884.
37. Rabinowitz YS, Rasheed K. KI-SA% system a new videokeratography system for the early detection of keratoconus. Journal of Cataract and Refractive surgery 1999:25:10: 1327-1336.
- 38 Kim WJ, Rabinowitz YS, Meisler DM, Wilson SE. Keratocyte Apoptosis associated with keratoconus. Experimental Eye Research. 69:5:475-81,Nov 1999
39. Wang Y, Rabinowitz YS, Rotter J, Yang H. Genetic epidemiological study of keratoconus: evidence for a major gene determination. American Journal of Medical Genetics 93:403-409,2000
40. Bergwerk K, Rabinowitz YS, Glasgow B. Cornea Transplant in a patient with Mucopolysaccharidosis Type VII.Ophthalmic Genetics. Vol 21:1:17-20,2000
41. Rasheed K, Rabinowitz YS. Surgical treatment of advanced Pellucid Marginal Degeneration. Ophthalmology. 21:1:17-20, 2000
42. McDonald M, Carr J, Frantz J, Kozarsky A, Maguen E, Nesburn A, Rabinowitz YS, Salz JJ, Stulting D, Thompson K, Waring GO. Laser-in-Situ Keratomeliosis for Myopia up to -11 Diopters with up to -5 Diopters of Astigmatism with the Summit Autonomous LADARVision Excimer Laser System. Ophthalmology 108:2: 309-316, 2001

43. Salz JJ, Stevens CA, McDonald M, Carr J, Frantz J, Kozarsky A, Maguen E, Nesburn A, Rabinowitz YS, Stulting D, Thompson K, Waring GO. LASIK correction of spherical hyperopia, hyperopic astigmatism, and mixed astigmatism with the LADARVision excimer laser system. *Ophthalmology*. 2002 Sep;109(9):1647-56;
44. Rabinowitz YS. Pellucid Marginal Degeneration. An unsuspecting trap for the refractive surgeon. *Refractive Eye Care*. October 2002
45. Bergwerk KL, Rabinowitz YS, Falk RL. Quality of life related to visual function in three young adults with mucopolysaccharidoses. *Scientific World Journal* 2003 Oct 5;3:922-9
46. Rabinowitz YS. Genetics of keratoconus. *Ophthalmol Clin North Am* 2003 Dec;16(4):607-20,vii,Review
47. Bergwerk KL, Schorr N, Rabinowitz YS. Visual function in an 11 year old with Fraser cryptophthalmos syndrome. *Am J Ophthalmol* 2004 Mar 137(3):591-3
48. Li X, Rabinowitz YS, Rasheed K, Yang H. Longitudinal study of the normal eyes in unilateral keratoconus. *Ophthalmology* March 2004. 111(3) 440-6
49. Rabinowitz YS, Dong L, Wistow G. Gene expression profile studies of the human Keratoconus corneas for NEIbank. A novel cornea expressed gene and the absence of transcripts for Aquaporin 5. *Invest Ophthalmol Vis Sci* 2005 April 46(4) 1239-46.
50. Tang YG1, Rabinowitz YS, Taylor KD, Li X, Hu M, Picornell Y, Yang H. A genomewide linkage scan in a multi-generation Caucasian pedigree identifies a novel susceptibility locus for keratoconus on chromosome 5q14.3-q21.1 *Genet Med*. 2005 Jul-Aug;7(6):397-405.
51. Binder PS, Lindstrom RL, Stulting RD, Donnenfeld E, Wu H, McDonnell P, Rabinowitz YS. Keratoconus and corneal ectasia after LASIK. *J Refract Surg*. 2005 Nov-Dec;21(6):749-52
52. Binder PS, Lindstrom RL, Stulting RD, Donnenfeld E, Wu H, McDonnell P, Rabinowitz YS. Keratoconus and corneal ectasia after LASIK. *J Cat Refract Surg* 2005 Nov;31(11):2035-8.
53. Li X, Rabinowitz YS, Tang YG, Picornell Y, Taylor KD, Hu M, Yang H. Two-stage genome-wide linkage scan in keratoconus sib pair families. *Invest Ophthalmol Vis Sci*. 47(9):3791-5, 2006.
54. Rabinowitz YS. INTACS for Keratoconus. *Int Ophthalmol Clin*. 46(3):91-103, 2006.
55. Rabinowitz YS, Ignacio T, Li X, Maguen E. Intacs using the femtosecond laser (Intralase) for Keratoconus.- 6 months results on 20 eyes. *J Refract Surg*. 2006 Oct;22(8):764-71.
56. Aldave A.J., Yellore VS, Salem AK, Yoo GL, Rayner, SA, Yang H, Tang, GT, Piconell Y, Rabinowitz YS.. No VSX1 Gene Mutations Associated with Keratoconus. *Invest Ophthalmol Vis Sci* 47(7):2820-2, 2006
57. Rabinowitz YS. Ectasia after laser in situ keratomileusis. *Curr Opin Ophthalmol*. 17 (5):421-6, 2006.
58. Sarayba MA, Maguen E, Salz J, Rabinowitz YS, Ignacio TS. Femtosecond laser keratome creation of partial thickness donor corneal buttons for lamellar keratoplasty. *J Refract Surg*. 2007 Jan;23(1):58-65.

59. Rabinowitz YS. Intacs for Keratoconus. *Current Opinion in Ophthalmology*. Curr Opin Ophthalmol. 2007 Jul;18(4):279-83. Review.
60. Li X, Yang H, Rabinowitz YS. Longitudinal study of familial influences on Longitudinal study of keratoconus progression. *Exp Eye Res*. 2007 Oct;85(4):502-7.
61. Jafri B, Li X, Rabinowitz YS.. Higher order wavefront aberrations and topography in early and suspected keratoconus. *J Refract Surg*. 2007 Oct;23(8):774-81.
62. Tang YG, Picornell Y, Su X, Li X, Yang H, Rabinowitz YS. Three VSX1 Gene Mutations, L159M, R166W, and H244R, Are Not Associated With Keratoconus. *Cornea*. 2008 Feb;27(2):189-192.
63. Maguen E, Rabinowitz YS, Regev L, Saghizadeh M, Sasaki T, Ljubimov AV. Alterations of extracellular matrix components and proteinases in human corneal buttons with INTACS for post-laser in situ keratomileusis keratectasia and keratoconus. *Cornea*. 2008 Jun;27(5):565-73.
64. Rabinowitz YS. I-S ratio. Reply to Boxer-Wachler. *Journal of Refractive Surgery*. March 15,2008
65. Li X, Rabinowitz YS. Keratoconus; classificaiton scheme based on videokeratography and clinical signs. *Journal of Cataract and Refractive Surgery* 2009 Sep;35(9):1597-603
66. Krueger R, Rabinowitz YS, Binder P. The History of the Excimer Laser – 25th Anniversary of excimer lasers in refractive surgery. Historical review. *J Refractive Surgery* 2010 Oct 26(10): 749-60
67. Rabinowitz YS. Is this Keratoconus? Curbside consultations in *Cornea and External Disease* . Francis Price Editor. July 2010, Pages 173-177
68. *Rabinowitz YS. Collagen Cross-linking. The ties that bind. An update on the safety and stability of this innovative procedure to stabilize the cornea. Ophthalmology Management October 2010. Pages 36-42*
69. Rabinowitz YS. Intacs for Keratoconus. *International Ophthalmology Clinics*. 2010 Summer 50(3)63-76
70. *Rabinowitz YS. Corneal Topography. Cataract and Refractive Surgery Today. July 2011. Pages 60-64.*
71. Xiaohui Li, Yelena Bykhovskaya, Talin Haritunians, David Siscovick, Anthony Aldave, Loretta Szczotka-Flynn, Sudha K. Iyengar, Jerome I. Rotter, Kent D. Taylor, Yaron S. Rabinowitz. A genome wide association study identifies a novel gene locus for keratoconus one of the commonest causes for corneal transplantation.. *Hum Mol Genet*. 2012 Jan 15;21(2):421-9.
72. Kathryn P. Burdon, Stuart Macgregor, Yelena Bykhovskaya Sharhbanou Javadiyan, Xiaohui Li, Kate Laurie, Judith Lechner, Talin Haritunians, Durga Dash, Shiwani Sharma, David Siscovick, Seema Anand, Anthony Aldave, Doug Coster, Loretta Szczotka-Flynn, Richard A. Mills, Sudha Iyengar, Kent D. Taylor, Tony Phillips, Jerome I. Rotter, Alex W. Hewitt, **Yaron S. Rabinowitz**, Colin Willoughby, Jamie E. Craig Promoter polymorphisms in the Hepatocyte Growth Factor (HGF) gene are associated with keratoconus. *Invest Ophthalmol Vis Sci*. 2011 Oct 31;52(11):8514-9. Print 2011 Oct
73. Gaster RN, Dumitrascu O, **Rabinowitz YS**. Penetrating keratoplasty using femtosecond laser-enabled keratoplasty with zig-zag incisions versus a mechanical trephine in patients with **keratoconus**. *Br J Ophthalmol*. 2012 Sep;96(9):1195-9.
- 74. Rabinowitz Y.S. CXL with the epithelium on or off: Which is better? Why I prefer Epithelium-off. Cataract and Refractive Surgery Today. May 2012 pages 1-5.**
75. Lu Y, Vitart V, Burdon KP, Khor CC, Bykhovskaya Y, Mirshahi A, Hewitt AW, Koehn D, Hysi PG, Ramdas WD, Zeller T, Vithana EN, Cornes BK, Tay WT, Tai ES, Cheng CY, Liu J, Foo JN, Saw SM,

Thorleifsson G, Stefansson K, Dimasi DP, Mills RA, Mountain J, Ang W, Hoehn R, Verhoeven VJ, Grus F, Wolfs R, Castagne R, Lackner KJ, Springelkamp H, Yang J, Jonasson F, Leung DY, Chen LJ, Tham CC, Rudan I, Vataavuk Z, Hayward C, Gibson J, Cree AJ, Macleod A, Ennis S, Polasek O, Campbell H, Wilson JF, Viswanathan AC, Fleck B, Li X, Siscovick D, Taylor KD, Rotter JI, Yazar S, Ulmer M, Li J, Yaspan BL, Ozel AB, Richards JE, Moroi SE, Haines JL, Kang JH, Pasquale LR, Allingham RR, Ashley-Koch A; NEIGHBOR Consortium, Mitchell P, Wang JJ, Wright AF, Pennell C, Spector TD, Young TL, Klaver CC, Martin NG, Montgomery GW, Anderson MG, Aung T, Willoughby CE, Wiggs JL, Pang CP, Thorsteinsdottir U, Lotery AJ, Hammond CJ, van Duijn CM, Hauser MA, Rabinowitz YS, Pfeiffer N, Mackey DA, Craig JE, Macgregor S, Wong TY.

Genome-wide association analyses identify multiple loci associated with central corneal thickness and keratoconus. *Nat Genet.* 2013 Feb;45(2):155-63.

76. Bykhovskaya Y, Li X, Epifantseva I, Haritunians T, Siscovick D, Aldave A, Szczotka-Flynn L, Iyengar SK, Taylor KD, Rotter JI, Rabinowitz YS. Variation in the lysyl oxidase (LOX) gene is associated with keratoconus in family-based and case-control studies. *Invest Ophthalmol Vis Sci.* 2012 Jun 28;53(7):4152-7.

77. Gaster RN, Caiado Canedo AL, **Rabinowitz YS**. Corneal collagen cross-linking for **keratoconus** and post-LASIK ectasia. *Int Ophthalmol Clin.* 2013 Winter;53(1):79-90.

78. Rabinowitz YS. INTACS for **keratoconus** and ectasia after LASIK. *Int Ophthalmol Clin.* 2013 Winter;53(1):27-39.

79. . Xiaohui Li, MD, Yelena Bykhovskaya, PhD, Yongming G. Tang, MD, Yoana Picornell, MS, Talin Haritunians, PhD, Anthony J. Aldave, MD, Loretta Szczotka-Flynn, MD, Sudha K. Iyengar, PhD, Jerome I. Rotter, MD, Kent D. Taylor, PhD, Yaron S. Rabinowitz, MD An Association Between the Calpastatin (CAST) Gene and Keratoconus

Cornea. 2013 Feb 26 PMID: 23449483

80. Li X, Bykhovskaya Y, Canedo AL, Haritunians T, Siscovick D, Aldave AJ, Szczotka-Flynn L, Iyengar SK, Rotter JI, Taylor KD, **Rabinowitz YS**. Genetic association of COL5A1 variants in **keratoconus** patients suggests a complex connection between corneal thinning and **keratoconus**. *Invest Ophthalmol Vis Sci.* 2013 Apr 12;54(4):2696-704.

81. Rabinowitz YS. Therapeutic options to delay the need for Corneal Transplants. Cataract and Refractive Surgery Today. European Edition. Cover Story. June 2013

82. Bykhovskaya Y, Caiado Canedo AL, Wright KW, **Rabinowitz YS** C.57 C > T Mutation in MIR 184 is Responsible for Congenital Cataracts and Corneal Abnormalities in a Five-generation Family from Galicia, Spain. *Ophthalmic Genet.* 2013 Oct 18.

83. Saghizadeh M, Winkler MA, Kramerov AA, Hemmati DM, Ghiam CA, Dimitrijevic SD, Sareen D, Ornelas L, Ghiasi H, Brunken WJ, Maguen E, **Rabinowitz YS**, Svendsen CN, Jirsova K, Ljubimov AV A simple alkaline method for decellularizing human amniotic membrane for cell culture. *PLoS One.* 2013 Nov 13;8(11):e

84. Bykhovskaya Y, Li X, Taylor KD, Haritunians T, Rotter JI, **Rabinowitz YS**. Linkage Analysis of High-density SNPs Confirms Keratoconus Locus at 5q Chromosomal Region. *Ophthalmic Genet.* 2014 Feb 20.

85. **Rabinowitz YS**, Li X, Canedo AL, Ambrósio R Jr, Bykhovskaya Y. Optical coherence tomography combined with videokeratography to differentiate mild keratoconus subtypes. *J Refract Surg.* 2014 Feb;30(2):80-7.

86. Sareen D, Saghizadeh M, Ornelas L, Winkler MA, Narwani K, Sahabian A, Funari VA, Tang J, Spurka L, Punj V, Maguen E, **Rabinowitz YS**, Svendsen CN, Ljubimov AV. Differentiation of human limbal-derived induced pluripotent stem cells into limbal-like epithelium. *Stem Cells Transl Med.* 2014 Sep;3(9):1002-12.

87. Bykhovskaya Y, Seldin MF, Liu Y, Ransom M, Li X, **Rabinowitz YS**. Independent origin of c.57 C > T mutation in MIR184 associated with inherited corneal and lens abnormalities. *Ophthalmic Genet.* 2015 Mar;36(1):95-7.

Books:

Rabinowitz YS, Wilson SE, Klyce SD editors
A Color Atlas of Corneal Topography: Interpreting
Videokeratography. Igaku-Shoin Medical Publishers
(New York -Tokyo) 1993.

Book Chapters:

1. Corneal Topography and its Optics. In, Duane's . Clinical Ophthalmology. Duane T, Jaeger ED (Editors) Volume 1; Chapter 65: pages 1-15, 1996.
2. Congenital Anomalies of the Lens in Emery and Rimoin's Principles and Practice of Medical Genetics. Third Edition, 1996. Churchill Livingstone Press. Rimoin D, Connor, J Michael, Pyeritz RE (Editors). Volume II. pages 2535-2554.
3. Keratoconus. In, Genetic Diseases of the Eye. Traboulsi E (Editor). Oxford University Press. Chapter 13: 267-284
4. Pellucid Marginal Degeneration. In: Current Ocular Therapy 5. Fraunfelder F (Editor) 2002 Section 20. Cornea. Pages 371-373
5. Congenital Anomalies of the Lens in Emery and Rimoin's Principles and Practice of Medical Genetics. Fourth Edition, 1996. Churchill Livingstone Press. Rimoin D, Connor J Michael, Pyeritz RE (Editors). Volume II. pages 2535-2554.
6. Corneal Topography: Corneal Curvature and Optics, Clinical Applications, and Wavefront Analysis. In Bennet E.S and Weissman B.A. Clinical Contact Lens Practice. Lippincott, Williams and Wilkins. Pages 215 – 232.
7. Ectatic Disorders of the Cornea. In Smolin and Thoft's The Cornea. Scientific Foundations and Clinical Practice. Fourth Edition. Foster C.S., Azar D.T. and Dohlman C.H. (Editors) Lippincott Williams and Wilkins Pages 889-911. 2006
8. Definition, Etiology, and Diagnosis of Keratoconus. In Treating Irregular Astigmatism and Keratoconus. Alio J.L. and Belda J.I. (Editors). Highlights of Ophthalmology. Pages 241 260. 2006
9. Corneal Topography and Wavefront Analysis. Optics and Clinical applications. Clinical Ophthalmology. Duane T, Jaeger E (Editors) 2006 Pages 378-401.
10. Pellucid Marginal Degeneration. In: Current Ocular Therapy 9 Fraunfelder F (Editor) 6 Section 20. 2007
11. Keratoconus in: Non keratoplasty surgical treatments of Keratoconus. Colin J. Ertan A. Chapter 1, Pages 1-34, 2008.
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Teaching and Student Rotations

1. Cedars-Sinai Phd Student Oanna Dumitrascu did a 2 month rotation in my office and my laboratory
2. UCLA Medical Students rotated through my office as part of their Cedars-Sinai Department of Surgery Rotation
3. The UCLA international corneal fellows did a rotation in my office and the operating rooms to learn new surgical techniques not done at UCLA

NIH ANTERIOR EYE DISEASE STUDY SECTION 2011

Ad hoc reviewer

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Topic innovative treatments for Keratoconus