

# Jennifer R. Chao, MD, PhD

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## CONTACT INFORMATION

### Office Address:

Department of Ophthalmology  
University of Washington  
Box 359608  
325 9<sup>th</sup> Avenue  
Seattle, WA 98104

## EDUCATION

Medical School	Yale University, New Haven, CT Doctor of Medicine, 2003
Graduate School*	Yale University, New Haven, CT Ph.D., 2002 Neuroscience
Undergraduate	Stanford University, Stanford, CA Bachelor of Science, 1996 Major: Biological Sciences

\*NIH (NIGMS) Medical Scientist Training Program

## TRAINING

Fellowship	The Doheny Eye Institute University of Southern California Los Angeles, CA Vitreoretinal Surgery, 2007-2009
Residency	The Doheny Eye Institute University of Southern California Los Angeles, CA Ophthalmology, 2004-2007
Internship	Stanford Hospital, Stanford, CA Preliminary; Internal Medicine, 2003-2004

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## FACULTY APPOINTMENTS AND OTHER POSITIONS

Assistant Professor of Ophthalmology (Vitreoretinal Surgery) Department of Ophthalmology, University of Washington Seattle, WA	2009- present
Clinical Instructor Doheny Eye Institute, University of Southern California Los Angeles, CA	2007-2009
Senior Researcher Division of Biology, California Institute of Technology Pasadena, CA	2007-2009

## HOSPITAL APPOINTMENTS:

University of Washington Medical Center Seattle, WA	2009-present
Harborview Medical Center Seattle, WA	2009-present
University of Southern California Los Angeles, CA	2007-2009
Los Angeles County Medical Center Los Angeles, CA	2007-2009
University of Southern California (Resident) Los Angeles, CA	2004-2007
Los Angeles County Medical Center (Resident) Los Angeles, CA	2004-2007
Stanford Hospital and Clinics (Resident) Palo Alto, CA	2003-3004

## PROFESSIONAL SERVICE:

Peer reviewer, <i>Ophthalmology</i> American Academy of Ophthalmology	2007-present
Peer reviewer, <i>Investigative Ophthalmology &amp; Visual Science</i> Association for Research in Vision and Ophthalmology	2010-present
Senior Editor, <i>Yale Journal of Health Policy, Law, and Ethics</i> , Yale Law School, Volumes I and II (Issues 1 and 2)	2000-2002

## PROFESSIONAL SOCIETIES:

American Society of Retinal Specialists

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Member, 2012-present  
Association for Vision Research in Ophthalmology  
Member, 2003-present

American Academy of Ophthalmology  
Fellow, 2009-present

The Society of Heed Fellows  
Member, 2009-present

Washington Academy of Eye Physicians and Surgeons  
Member, 2010-present

## LICENSURE

Washington	2009-present
California	2004-present

## BOARD CERTIFICATION

Diplomate, American Board of Ophthalmology, 2008  
Diplomate, National Board of Medical Examiners, 2003

## HONORS AND AWARDS

**Fellowship** (USC/Doheny Eye Institute):  
Heed Ophthalmic Foundation Fellow, 2007-2008

**Residency** (USC/Doheny Eye Institute):  
Heed Ophthalmic Foundation Residency Retreat Invitee, 2006  
National Eye Institute Travel Grant (ARVO), 2006  
Doheny Eye Institute Resident Research Award, 2006  
Doheny Eye Institute Resident Research Award, 2005

**Medical and Graduate Schools** (Yale University):  
Doctor of Medicine, *cum laude*, 2003  
Janet M. Glasgow Memorial Achievement Citation, 2003  
MSTP Fellowship, 1997-2003  
Predoctoral Qualifying Exam with Distinction, 1999

**Undergraduate** (Stanford University):  
Stanford University, Graduation with Distinction, 1996  
Stanford University, Graduation with Departmental Honors, 1996  
National Merit Scholarship, 1992-1996

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## PUBLICATIONS

### Original Articles in Peer Reviewed Journals

1. Chao JR, Bronner-Fraser M, Lwigale P. (2013). Human Fetal Keratocytes have Multipotent Characteristics in the Developing Avian Embryo. *Stem Cells and Development*, In Press.
2. Scartozzi R, Chao JR, Walsh AC, Elliott D (2009). Bilateral Improvement of Persistent Diffuse Diabetic Macular Edema after Unilateral Intravitreal Bevacizumab (Avastin) Injection. *Eye* 23(5):1229.
3. Chao JR, Lai M-Y, Azen SP, Klein R and Varma R (2007). Retinopathy in Persons without Diabetes: The Los Angeles Latino Eye Study. *Investigative Ophthalmology and Visual Science* 48(9): 4019-4025.
4. Chao JR, Khurana RN, Fawzi AA, Reddy HS, and Rao NA (2006). Syphilis: Re-emergence of an Old Adversary. *Ophthalmology* 113(11): 2074-9.
5. Peakman MC, Colby C, Perrotti LI, Tekumalla P, Carle T, Ulery P, Chao JR, Duman C, Steffen C, Monteggia L, Allen MR, Stock JL, Duman RS, McNeish JD, Barrot M, Self DW, Nestler EJ and Schaeffer E (2003). Inducible, Brain-Region Specific Expression of a Dominant Negative Mutant of c-Jun in Transgenic Mice Decreases Sensitivity to Cocaine. *Brain Research* 970(1-2): 73-86.
6. Chao JR, Ni YG, Bolaños CA, Rahman Z, DiLeone RJ and Nestler EJ (2002). Characterization of the Mouse Adenylyl Cyclase Type VIII Gene Promoter: Regulation by cAMP and CREB. *European Journal of Neuroscience* 16(7): 1284-1294.

### Reviews and Book Chapters

1. Gupta D and Chao JR (2012). Genetics of AMD. *Age-Related Macular Degeneration, Third Edition* (ed. Lim, JI). London, UK: Informa Healthcare.
2. Chao JR (2012). Myopia. In: Wright KW, Strube YJ, eds. *Pediatric Ophthalmology and Strabismus, 3<sup>rd</sup> ed.* New York, NY: Oxford University Press.
3. Tsai JH, Chao JR, Rao NA (2008). Syphilitic and Other Spirochetal Uveitides. *Ophthalmology, 3<sup>rd</sup> Edition* (eds. Yanoff M and Duker JS). Mosby.
4. Chao JR, Fawzi AA, and Lim, JI (2007). Genetics of AMD. *Age-Related Macular Degeneration, Second Edition* (ed. Lim, JI). Informa Healthcare.
5. Nestler EJ and Chao J (2006). Disorders of Substance Abuse and Dependence. In: *Principles of Molecular Medicine, Second Edition* (eds. Runge MS and Patterson WC). Humana Press.
6. Chao J and Nestler EJ (2004). Molecular Neurobiology of Drug Addiction. *Annual Review of Medicine* 55:113-132.

### Abstracts

1. Chao JR, Lamba DA, Klesert TR, Sternhagen K, Taylor R, Yanagida A, Neitz M, Neitz J, Wang RK, Reh TA. Transplantation of Human Embryonic Stem Cell-Derived Retinal
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- Cells into the Subretinal Space of a Non-Human Primate. ARVO Abstr. Program No. 5839, 2012.
2. Chao JR, Bronner-Fraser, M, Lwigale PY. Stem-Cell Properties of Human Corneal Keratocytes. ARVO Abstr. Program No. 2049, 2009.
3. Chao JR, Bronner-Fraser, M, Lwigale PY. Characterization of the Multipotentiality of Human Keratocytes. ARVO Abstr. Program No. 4812, 2008.
4. Green RL, Babic, K, Yamamoto I, Aghaian E, Chao JR, Sadda SR. Echographic Evaluation of Uveal Effusion Syndrome Following Trabeculectomy. XXII SIDUO Congress Abstract, 2008.
5. Chao JR, Khurana RN, Lai M-Y, Varma R. Serum Protein Profiling in Persons with Ocular Disease: The Los Angeles Latino Eye Study. ARVO Abstr. Program No. 330, 2007.
6. Sanchez RN, Chao JR, Sadun AA. Correlation of Automated Visual Field Parameters with Progression of Non-Arteritic Anterior Ischemic Optic Neuropathy (NAION). ARVO Abstr. Program No. 3172, 2007.
7. Chao JR, Lai M-Y, Klein R, Varma R. Retinopathy in Persons without Diabetes: The Los Angeles Latino Eye Study. ARVO Paper, Program No. 1553, 2006.
8. Chao JR, Chang TS, Lim JI. A Comparison of Internal Limiting Membrane Peeling to No Internal Limiting Membrane Peeling in Macular Hole Repair: A Retrospective Review. ARVO Abstr., Program No. 5425, 2005.
9. Chao JR, Ni YG, DiLeone RJ, Chen JS, Rahman Z and Nestler EJ. Mouse Adenylyl Cyclase Type VIII Gene Promoter: Activation by cAMP and CREB. Soc. Neurosci. Abstr. Vol. 27, Program No. 462.6, 2001.
10. Barrot M, Olivier JDA, Perrotti LI, Chao JR, Williams P, Neve RL, Zachariou V and Nestler EJ. CREB in the Nucleus Accumbens Shell Influences Behavioral Responses to Emotional Stimuli. Soc. Neurosci. Abstr. Vol. 27, Program No. 420.6, 2001.
11. Chao JR, Ni YG, Chen JS, Rahman Z, Nestler EJ. Characterization of the Mouse Adenylyl Cyclase Type VIII Gene Promoter: Activation by cAMP. Soc. Neurosci. Abstr. Vol. 26, Program No. 49.12, 2000.
12. Chao JR, Ni YG, Chen JS, Rahman Z, Nestler EJ. Characterization of the Mouse Adenylyl Cyclase Type VIII Gene Promoter. 15<sup>th</sup> Annual National MD/PhD Conference, Given Institute, Aspen, CO, July 2000.
13. Chao JR, Ni YG, Chen JS, Rahman Z, Nestler EJ. Adenylyl Cyclase Type VIII Gene Promoter: Activation by cAMP. Soc. Neurosci. Abstr. Vol. 25, Program No. 49.12, 1999.

### **NATIONAL AND INTERNATIONAL MEETING PRESENTATIONS**

1. *Stem Cell Properties of Human Corneal Keratocytes*. Association for Research in Vision and Ophthalmology, Annual Meeting, Fort Lauderdale, FL. May 4, 2009.
  2. *Multipotentiality of Human Corneal Keratocytes*. University of Washington—Invited Speaker, Seminar. Seattle, WA. March 19, 2009.
  3. *Multipotentiality of Human Keratocytes*. University of Minnesota, Scientific Seminar at the Lions Research Facility, Minneapolis, MN. November 13, 2008.
  4. *Stem Cell Properties of Human Keratocytes*. University of Illinois—Chicago, Invited
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- Speaker, Grand Rounds. Chicago, IL. October 29, 2008.
5. *Leber Congenital Amaurosis: A Novel AIPL-1 Mutation*. Western Retina Study Club, Pasadena, CA. March 17, 2007.
  6. *Retinopathy in Persons without Diabetes: The Los Angeles Latino Eye Study* Association for Research in Vision and Ophthalmology, Annual Meeting, Fort Lauderdale, FL. May 1, 2006.
  7. *Characterization of the Mouse Adenylyl Cyclase Type VIII Gene Promoter*. Society for Neuroscience, Annual Meeting, San Diego, CA. November 13, 2001.

### LOCAL AND/OR REGIONAL MEETINGS/SEMINARS

1. *Stem Cell Therapy for the Retina*. Orcas Island Medical Foundation Annual Board Meeting (55<sup>th</sup>). Orcas Island, WA. April 24, 2012.
  2. *Stem Cell Therapy for the Retina*. University of Washington, Department of Ophthalmology Lecture Series. Seattle, WA. April 19, 2012.
  3. *Stem Cell Therapies for Retinal Degeneration*. Seattle Speaker Series, Foundation Fighting Blindness. Seattle, WA. July 30, 2011.
  4. *Hereditary Retinal and Choroidal Dystrophies*. University of Washington, Department of Ophthalmology Lecture Series. Seattle, WA. August 19, 2010.
  5. *Stem Cell Therapy in the Retina*. Eye Institute, Harborview Medical Center: Brown Bag Lunch Series—Modern Medicine of the Eye. Seattle, WA. July 28, 2010.
  6. *Potential of Stem Cell Therapy in Retinal Degenerative Disorders*. Blinded Veterans Association. Tacoma, WA. June 9, 2010.
  7. *Stem Cell Therapy in Retinal Degenerative Disorders*. Gained in Translation Symposium. Seattle, WA. May 20, 2010.
  8. *Multipotentiality of Human Corneal Keratocytes*. 40th Annual Doheny Days Conference. Los Angeles, CA. June 12, 2009.
  9. *Traumatic Taser Injury to the Macula*. Los Angeles Imaging Conference for Retina Specialists, Los Angeles, CA. February 12, 2008.
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