

Robert L. Schultze, MD, FACS
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Albany Medical College

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APPOINTMENTS: **Albany Medical College**, Lions Eye Institute
Associate Professor of Ophthalmology
Director, Cornea and Refractive Surgery
Director, Cornea Fellowship Program

Cornea Consultants of Albany, PLLC
Medical Director, 2000 - present

TLC Laser Eye Center, Albany, NY
Medical Director, 2000 – present

Lions Eye Bank, Albany, NY
Medical Director. 2009 - present
Associate Medical Director, 1999 – 2009

LICENSURE: NYS License #203780
Board Certified in Ophthalmology, November 1999

EDUCATION: Undergraduate
University of Pittsburgh, Pittsburgh, PA, and the Institute
of European Studies, Freiburg, Germany
Bachelor of Science, Major in Chemistry, 1986 - 1990
Medical School
Temple University School of Medicine, Philadelphia, PA
Doctor of Medicine, 1990 - 1994

INTERNSHIP: **Mercy Hospital of Pittsburgh**, Preliminary Internal Medicine
Pittsburgh, PA, 1994 - 1995

RESIDENCY: **Albany Medical College**, Lions Eye Institute, Ophthalmology
Albany, NY, 1995 - 1998

FELLOWSHIP: **Albany Medical College**, Lions Eye Institute

Cornea, External Disease and Refractive Surgery
Albany, NY, July 1, 1998 - June 30, 1999

**AWARDS /
HONORS:**

Best Paper of Session, 2009 American Society of Cataract and Refractive Surgery, "Comparison of Endothelial Keratoplasty Visual Outcomes with Optical Coherence Tomography-Derived Corneal Thickness Measurements," San Francisco, CA.

Honor Award, American Academy of Ophthalmology, 2007.

Best of Show, 2005 American Academy of Ophthalmology Video Program, "More Surgical Pearls and Pitfalls in Deep Lamellar Endothelial Keratoplasty (DLEK)," Chicago, Illinois.

First Place, In House Productions, 2005 ASCRS Film Festival, "Pearls and Pitfalls in Deep Lamellar Endothelial Keratoplasty," Washington DC

Temple Medical School Lampert Biomedical Research Prize, 1994

Phi Beta Kappa, University of Pittsburgh, 1990

Merck & Co. Academic Achievement Award, 1990

Western Pennsylvania Golf Association Scholarship, 1986 - 1994

Provost Scholar, University of Pittsburgh, 1986 – 1990

**COMMITTEES/
MEMBERSHIPS:**

American Academy of Ophthalmology
Committee on Eye Banks, 2008 – present
Annual Program Committee – Cornea / External Disease –
Reviewer for AMPC, 2010 - present

American Board of Ophthalmology
Special Examiner, Oral Item Writing Committee
2008-present
Associate Examiner, 2006-present
PORT Item Writer 2006-2007, 2009-present

Eye Bank Association of America
Medical Advisory Board, 2006-present
Committee on International Relations, 2006- present
Accreditation Board, 2001-2006

Albany Medical College
Director, Medical Student Ophthalmology Education
Admissions Committee Member

Northeastern Association for the Blind
Board of Directors, 2005-present

American College of Surgeons
Cornea Donor Study, Manuscript Writing Group

Castroviejo Cornea Society
American Society of Cataract and Refractive Surgery
New York State Ophthalmological Society

**RESEARCH /
FUNDING:**

- Inspire Pharmaceuticals**, Principal Investigator, 03-113: A Multi-Center, Parallel-Group, Double-Masked, Randomized, Placebo-Controlled Study of the Effects of diquafosol tetrasodium Ophthalmic Solution, 2% in Subjects with Dry Eye Disease and a Central Corneal Staining Score of 3 (NEI Scale), 2009.
- Alcon**, Principal Investigator, “Assesment of inflammatory biomarkers in a non-Sjogren’s severe dry eye population” (JADE 3), 2008.
- Alcon**, Principal Investigator, “Assessment of Inflammatory Biomarkers Expressed in a Sjögren’s Population: Effect of Maxidex Intervention” (JADE2), 2008.
- LUX Biosciences**, Principal Investigator, Phase III, LX201-01: Study to Assess LX201 for Prevention of Corneal Graft Rejection and Failure Following Penetrating Keratoplasty in Patients at Increased Immunological Risk, 2007.
- Alcon**, Principal Investigator, Identification of Potential Inflammatory Markers on the Conjunctival Surface of Dry Eyed Individuals, 2007.
- Sight Society of Northeastern New York**, Research Grant, “Identification of Potential Inflammatory Markers on the Conjunctival Surface of Individuals with Dry Eye, 2007.
- Alcon**, Principal Investigator, Phase III, Safety and Efficacy of FID #109980 in the Treatment of Dry Eye, 2006.
- Bausch and Lomb**, Principle Investigator, Phase III study, “Clinical and Microbial Efficacy of 0.6% ISV-403 compared to Vigamox in Bacterial Conjunctivitis,” 2006.
- Sight Society of Northeastern New York**, Research Grant, “Advanced Techniques in Anterior Segment Surgery,” 2006.
- Sight Society of Northeastern New York**, Research Grant, Evaluation of the Tear Film and Ocular Surface in Dry Eye Syndrome,” 2005.
- Sight Society of Northeastern New York**, Research Grant, “New Technology in the Objective Evaluation of Dry Eye Syndrome,” 2004.
- Allergan**, Sub-Investigator, Phase II Study, Topical Testosterone (0.01%, 0.03%, and 0.1%) in Subjects with Meibomian Gland Dysfunction, 2003.

Alcon, Principal Investigator, Phase III Study, A Comparison of Ciprodex Ophthalmic Suspension, versus Ciloxan, Maxidex, and Ciprodex Vehicle for Treatment of Bacterial Blepharitis, 2003.

Sucampo Pharmaceuticals, Principal Investigator, Phase III Study, Efficacy and Safety of FK506 for Allergic Conjunctivitis, 2002.

Allergan, Sub-Investigator, Phase III Study, Topical Cyclosporine for Dry Eye, 2001- 2002.

Sight Society of Northeastern NY, Research Grant, “Specular Microscopy in Corneal Graft Donor Viability,” 2000.

Cornea Donor Study, Jaeb Center for Health Research, 2000-present.

Maverick Technologies, Biomask Phototherapeutic Keratectomy (PTK) Study, 1998-1999.

VISX, Hyperopia with Refractive Astigmatism, Phase III Study, 1998-2000.

Sight Society of Northeastern NY, Research Grant, “Immunologic Mechanisms of Corneal Transplant Rejection,” 1998.

American Heart Association, Medical Student Stipend Award, “Inflammatory Mediators,” 1992-1993.

PUBLICATIONS:

Sugar A, Tanner JP, Dontchev M, Tennant B, Schultze RL, Dunn SP, Lindquist TD, Gal RL, Beck RW, Kollman C, Mannis MJ, Holland EJ; Cornea Donor Study Investigator Group. “Recipient risk factors for graft failure in the cornea donor study.” *Ophthalmology*. 2009 Jun;116(6):1023-8. Epub 2009 Apr 23.

Cornea Donor Study Investigator Group, Lass JH, Gal RL, Dontchev M, Beck RW, Kollman C, Dunn SP, Heck E, Holland EJ, Mannis MJ, Montoya MM, Schultze RL, Stulting RD, Sugar A, Sugar J, Tennant B, Verdier DD. “Donor age and corneal endothelial cell loss 5 years after successful corneal transplantation. Specular microscopy ancillary study results.” *Ophthalmology*. 2008 Apr;115(4):627-632.e8.

Cornea Donor Study Investigator Group, Gal RL, Dontchev M, Beck RW, Mannis MJ, Holland EJ, Kollman C, Dunn SP, Heck EL, Lass JH, Montoya MM, Schultze RL, Stulting RD, Sugar A, Sugar J, Tennant B, Verdier DD, “The effect of donor age on corneal transplantation outcome results of the cornea donor study.”

Ophthalmology. 2008 Apr;115(4):620-626.e6.

Dunaief JL, Richa C, Franks EP, **Schultze RL**, Aleman TS, Schenck JF, Zimmerman EA, Brooks DG, "Macular Degeneration in a Patient with Aceruloplasminemia, a Disease Associated with Retinal Iron Overload," Ophthalmology, June; 112(6):1062-5, 2005.

Schultze RL, Spitzer S, "Surgical Pearls and Pitfalls of Deep Lamellar Endothelial Keratoplasty," Ocular Surgery News, 23 (6) 4, 28, 2005.

Schultze RL, Mishra G: "Current Concepts in Deep Lamellar Keratoplasty," Highlights of Ophthalmology, 32 (6) 10-14, 2004.

Schultze RL, Singh, GD: "Neurotrophic Keratitis," Focal Points, American Academy of Ophthalmology, XXI (2), March 2003.

Schultze RL: "Microkeratome Update," International Ophthalmology Clinics: Frontiers in Refractive Surgery, 42 (4) 55-65, 2002.

Belin MW, Hannush SB, Yau CW, **Schultze RL**: "Elevated Intraocular Pressure-induced Interlamellar Stromal Keratitis," Ophthalmology, 109 (10): 1929-1933, 2002.

Belin, MW, **Schultze, RL**: "Microkeratomes," International Ophthalmology Clinics: Refractive Surgery, 40 (3) 57-65, 2000.

Schultze, RL: "Contrast Sensitivity Not Significantly Hurt by H-PRK." Ophthalmology Times, 24 (22): 16-17, 1999.

Schultze, RL: "Corneal Topography to Predict Outcomes of Hyperopia Treatment with the VISX Star S2." Highlights of the ASCRS 1999 Annual Meeting. Boston: Ophthalmology Interactive; 1999. (CD-ROM)

Belin MW, **Schultze RL**: Book Review, *The Cornea*, 2nd ed., edited by Herbert Kaufman MD, Bruce Barton MD, and Marguerite McDonald MD, Archives of Ophthalmology, April, 1999.

Schultze RL: “Accuracy of Corneal Elevation with Four Corneal Topography Systems,” J Refract Surg, 14: 100-04, 1998.

Wachtfogel YT, DeLa Cadena RA, Kunapuli SP, Rick L, Miller M, **Schultze RL**, Altieri TS, Edgington TS, Colman RW: High Molecular Weight Kininogen Binds to Mac-1 on Neutrophils by its Heavy Chain and its Light Chain, Journal of Biological Chemistry, 269 (30): 19307-12, 1994.

DeLa Cadena RA, Wyshock EG, Kunapuli SP, **Schultze RL**, Miller M, Walz DA, Colman RW: Platelet Thrombospondin Interactions with Human High and Low Molecular Weight Kininogens, Thromb & Haemost, 72 (1): 125-31, 1994.

PRESENTATIONS /

ABSTRACTS:

“DSAEK Update,” invited paper presentation, Contact Lens Association of Ophthalmologists, Annual Meeting, Montreal, Canada, 2009.

“Posterior Interface Infectious Keratitis Following Descemet-Stripping Endothelial Keratoplasty Surgery,” Bouchard C, Goins K, Lee WB, Rubenstein J, **Schultze RL**, et al., Paper presentation, American Academy of Ophthalmology, San Francisco, CA, 2009.

“Comparison of Donor Insertion Techniques on Endothelial Cell Mortality in DSAEK,” Sleem A, Khachekian SS, Ali S, Schultze RL, EBAA Scientific Symposium, Seattle, WA, 2009

“Comparison of Donor Insertion Techniques on Endothelial Cell Mortality in DSAEK,” Khachekian SS, Sleem,A, Schultze RL, Paper presentation, ASCRS, San Francisco, CA, 2009.

“Comparison of Endothelial Keratoplasty Visual Outcomes with Optical Coherence Tomography-Derived Corneal Thickness Measurements,” Schultze RL, Sleem A, O’Malley M, Khachekian SS, Paper presentation, Best Paper of Session, ASCRS, San Francisco, CA, 2009.

“Recurrent Corneal Erosion: Treatment Options for the Unhappy Patient,” invited paper presentation, World Ophthalmology Congress, Hong Kong, China, 2008.

“Endothelial Keratoplasty Outcomes Comparison: Concomitant Cataract Surgery Versus Sequential Cataract Surgery,” Walker R, Schultze RL, Paper presentation, ASCRS, Chicago, Ill, 2008.

“Top Ten Tips For Success With Endothelial Keratoplasty,” Video Program, ASCRS, Chicago, Ill, 2008.

“Endothelial Keratoplasty: Past, Present and Future,” Kenneth H. Spitzer, MD Lecture, invited speaker, 58th Annual Post-Graduate Review Course, Syracuse, NY, 2007.

“Complications and Outcomes in Endothelial Keratoplasty,” Schultze RL, Barry GP, Paper Presentation, American Academy of Ophthalmology, New Orleans, LA, 2007.

“Endothelial Keratoplasty: Disaster Avoidance and Management,” Video Program, American Academy of Ophthalmology, New Orleans, LA, 2007.

“Endothelial Keratoplasty, Outcomes and Complications,” **Schultze RL**, Barry G, Paper Presentation, Pacific Coast Ophthalmological Society 91st Annual Meeting, Hawaii, 2007.

“Endothelial Keratoplasty: Video Grand Rounds,” Video Program, **Schultze RL**, American Society of Cataract and Refractive Surgery, San Diego, CA, 2007.

“U.S. Ophthalmology Resident Experience in Excimer Laser Vision Correction,” Ciolino JB, Nagi K, **Schultze RL**, Paper Presentation, American Society of Cataract and Refractive Surgery, San Diego, CA, 2007.

“One Year Outcomes of Deep Lamellar Endothelial Keratoplasty,” Eden RA, **Schultze RL**, Poster Presentation, American Society of Cataract and Refractive Surgery, San Diego, CA, 2007.

“Surgical Pearls and Pitfalls in Endothelial Keratoplasty,” **Schultze, RL**, Paper Presentation, Aegean Cornea VIII Meeting, Crete, Greece, 2006.

“More Surgical Pearls and Pitfalls in Deep Lamellar Endothelial Keratoplasty (DLEK),” **Schultze RL**, Video Program, American Academy of Ophthalmology, Chicago, Illinois, 2005

“Continued Evolution of Deep Lamellar Endothelial Keratoplasty,” **Schultze, RL**, Nagy, K, 11th International Congress, Keratomileusis Study Group, Chennai, India, 2005.

“Topical Cyclosporine Versus Punctal Occlusion in Dry Eye Syndrome Treatment,” **Schultze RL**, Paper Presentation, American Society of Cataract and Refractive Surgery, Washington DC, 2005.

“Pearls and Pitfalls of Deep Lamellar Endothelial Keratoplasty,” Video Program, American Society of Cataract and Refractive Surgery, Washington DC, 2005.

“Visual Outcomes in Deep Lamellar Endothelial Keratoplasty With and Without an Automated Microkeratome for Donor Harvest,” **Schultze RL**, Ciolino J, poster presentation, World Cornea Congress V, Washington DC, 2005.

“Comparison of Topical Cyclosporine (Restasis) and Punctal Occlusion in the Treatment of Dry Eye Syndrome,” **Schultze RL**, Mishra G, poster presentation, American Academy of Ophthalmology, New Orleans, LA, 2004.

“Surgical Pearls and Pitfalls of Deep Lamellar Endothelial Keratoplasty,” video presentation, American Academy of Ophthalmology, New Orleans, LA, 2004.

“Comparison of Restasis Emulsion and Punctal Plugs in the Treatment of Dry Eye Syndrome,” **Schultze RL**, Mishra G, ASCRS, San Diego, CA, 2004.

“Surgical Pearls and Pitfalls of Deep Lamellar Endothelial Keratoplasty,” ASCRS, San Diego, CA, 2004.

“Emerging Technology in Corneal Surgery”, invited speaker, New York State Society of Opticians Regional Meeting, Albany, NY, 2004.

“Cornea by the Case,” invited speaker, Northern Virginia Primary Eyecare Conference, Falls Church, VA, 2004.

“Deep Lamellar Endothelial Keratoplasty: Surgical Technique and Clinical Results,” invited speaker, Tenth International Congress, Keratomileusis Study Group, Panama, Republic of Panama, 2004.

“Surgical Pearls in Deep Lamellar Endothelial Keratoplasty,” Endothelial Keratoplasty Study Group AAO Meeting, Anaheim, CA, 2003.

“Through the Naked Eye, Alternatives to Corneal Blindness,” invited speaker, National Association for Disability Examiners National Conference, Albany, NY, 2003.

“Subspecialty Perspective of the Red Eye,” invited speaker, Pittsburgh Primary Eye Care Conference, Pittsburgh, PA, 2003.

“New Frontiers in Lamellar Corneal Surgery,” invited speaker, Nantucket Cornea Meeting, Nantucket, MA, 2003.

“Update on Phakic IOLs: Beyond the Corneal Frontier,” Course faculty, Albany Ophthalmology Update, Scotia, NY, 2003.

“Allergic Eye Disease: Pathophysiology and Pharmacology,” invited speaker, JCAHPO, New York Regional Education Program, 2002.

“Techniques in Limbal Stem Cell Procurement,” Eye Bank Association of America, Ponte Vedra, FL, 2002.

“Cornea by the Case,” invited speaker, Glens Falls Primary Eye Care Conference, Glens Falls, NY, 2002.

“Emerging Technologies in Refractive Surgery,” invited speaker, New York State Society of Opticians Regional Meeting, Albany, NY, 2001.

“Epithelial Defects During LASIK: Risk Factors,” Belin MW, Morason RT, Goyal D, **Schultze RL**, ASCRS, San Diego, CA 2001.

“Cornea by the Case,” invited speaker, Glens Falls Primary Eye Care Conference, Glens Falls, NY, 2000.

“Using Corneal Topography to Predict Outcomes of Laser Vision Correction of Hyperopia with the VISX Star S2 Excimer Laser,” **Schultze RL**, Belin MW, ASCRS, Seattle, WA, 1999.

“Neuro-Ophthalmologic Presentation of Silent Sinus Syndrome,” Lopasic N, **Schultze RL**, Krohel GB, N. American Neuro-Ophthalmology Society, annual meeting, Snowmass, CO, 1999.

“LASIK: A Comparison of Microkeratomes,” AAO Refractive Surgery Subspecialty Day, Belin MW, **Schultze RL**, New Orleans, LA, 1998.

“Latest Developments in Ray Tracing Analysis,” invited paper presentation, ISRS World Refractive Surgery Symposium, Orlando, FL, 1998.

“VISX Star Hyperopia Optical Analysis utilizing Technomed C-scan Ray Tracing and Refractive Power Maps,” **Schultze RL**, Belin MW, ASCRS, San Diego, CA, 1998.

“Topographic Analysis After Hyperopic PRK Using the VISX Star Excimer Laser,” **Schultze RL**, Belin, MW, International Society of Refractive Surgery, San Francisco, CA, 1997.

“The Altitudinal Visual Field Defect - Etiology and Prognosis,” **Schultze RL**, Fleishman J, American Academy of Ophthalmology, poster presentation, San Francisco, CA, 1997.

“Excimer Laser Calibration ExcaliPar using Topographic Analysis of Ablations on Cross-Linked Collagen,” Belin MW, **Schultze RL**, American Society of Cataract and Refractive Surgery, Boston, Mass, 1997.

“Elevation Accuracy of Topography Systems,” **Schultze RL**, International Society of Refractive Surgery, Chicago, Illinois, 1996.

“The Reproducibility of the PAR CTS with and without Topical Fluorescein,” **Schultze RL**, Cambier J, Albany Research Forum, Albany, NY, 1996.

“Characterization of the Surface Binding Domains on High Molecular Weight Kininogen using Synthetic Peptides and Deletion Mutagenesis,” **Schultze RL**, DeLa Cadena R, Kunapuli S, Colman R, National Student Research Forum, Galveston, Texas, 1992.