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Current Practice Addresses

- **Cornea Associates of Texas (Dallas Office)**
10740 N Central Expy, Ste 350
Dallas, TX 75231
- **Cornea Associates of Texas (Plano Office)**
6000 W Spring Creek Pkwy, Ste 100
Plano, TX 75024

Education

- **Devers Eye Institute**
Clinical Fellow, Cornea/External Disease/Refractive Surgery
July 2018 – June 2019
- **Baylor Scott and White Eye Institute**
Ophthalmology Residency, July 2015 – June 2018
- **Baylor Scott and White Memorial Hospital**
Internal Medicine Internship, July 2014 – June 2015
- **Texas A&M University College of Medicine**
MD/PhD, May 2014
- **University of Texas at Tyler**
BS, Summa Cum Laude in Chemistry, 2006

Board Certification

- American Board of Ophthalmology

Current Licensure

- Texas

Honors

- Society for Experimental Biology and Medicine Young Investigator Award (2011)
- National Eye Institute Travel Award (2011)
- Microcirculatory Society Zweifach Student Award (2011)
- Elected Alpha Omega Alpha Medical Honor Society (2010)
- Passing with Honors in Clinical Preceptorship Program (2007-2008)
- Alpha Chi National College Honor Society, lifetime member
- Elected to Baylor Scott & White Resident and Fellow Chapter of the Gold Humanism Honor Society, lifetime member

Research

- 10/2019 – present - Post-Approval Study of the Tecnis Symfony® Toric Lenses, Johnson & Johnson Surgical Vision, Inc., Protocol TIOL-205-STPA, Sub-Investigator
- 6/2019 - present - Safety and Effectiveness of the PXL-Platinum 330 System for corneal cross-linking in eyes with corneal thinning conditions, Protocol PXL-330-CAT, Sub-Investigator
- 9/2018- present Zoster Eye Disease Study (ZEDS)
A multi-center, randomized, double-masked, placebo-controlled clinical trial of suppressive valacyclovir for one year in immunocompetent study participants with an episode of dendriform epithelial keratitis, stromal keratitis, endothelial keratitis, and/or iritis due to Herpes Zoster Ophthalmicus (HZO) in the year prior to enrolment, Protocol 16-00463, Sub-Investigator
- 07/2018 to present – Cornea transplant surgery and graft preparation clinical research projects as Clinical Fellow
Legacy Devers Eye Institute, Portland, OR
- 06/2017 to 06/2018 – Rescue of Corneal Epithelial Cells after Alkaline Injury
Resident research project in lab of Dr. Sam Fulcher, M.D.
Scott and White Eye Institute, Temple, TX
- 07/2009 to 05/2013 - Retinal microcirculatory physiology
Doctoral Student in lab of Lih Kuo, Ph.D.
Texas A&M University Health Science Center College of Medicine,
Temple, TX
- 06/2007 to 08/2007 - Binding affinities of PVL(+) MRSA adhesion proteins
Summer rotation in lab of Magnus Höök, Ph.D.
Texas A&M University Health Science Center Institute of Biological Sciences
and Technology, Houston, TX
- 06/2006 to 08/2006 - Characterization of mitochondrial membrane protein folding mechanisms
Summer rotation in lab of Art Johnson, Ph.D.
Texas A&M University Health Science Center College of Medicine,
College Station, TX

Extracurricular Activities

- Student Community Health Initiative, Temple, TX (08/2011 - 10/2011)
- Martha's Clinic, Temple, TX (01/2009 - 03/2009, 06/2013-03/2014)
- Health Circus, College Station, TX (09/2007 - 03/2008)
- Neurology/Ophthalmology Interest Group, College Station, TX
(03/2007 - 12/2007)
- Stand Tall Against Tobacco, College Station, TX (2007)

Abstracts and Presentations

Potts LB, Bauer A, Chen S, Tran KD, Straiko MD, Terry MA. Ready to Go: First year clinical outcomes using pre-loaded DMEK grafts. *2018 Cornea and Eye Banking Forum*. Chicago, IL.

Potts LB, Newman LR, Tran KD, Bauer A, DeMill DL, Straiko MD, Terry MA. 100 cases of pre-loaded DMEK versus 100 cases of surgeon-loaded DMEK using the same technique: results and complications. *2018 Annual Meeting of American Academy of Ophthalmology*. Chicago, IL. (presentation also selected for Poster Theatre)

Potts LB, Ren Y, Kuo L, Hein TW. Endothelium-independence of ROCK-mediated retinal arteriolar constriction. *2013 Annual Meeting of Association for Research in Vision and Ophthalmology*. Seattle, WA

Potts LB, Xu W, Kuo L, Hein TW. Endothelium independence of ROCK-mediated retinal arteriolar constriction to ET-1. *2013 Texas A&M Health Science Center Cardiovascular Research Institute Symposium*. Temple, TX

Potts LB, Kuo L, Xu W, Hein TW. Signaling pathway for porcine retinal arteriolar constriction to PKC activation: roles of L-type voltage-operated calcium channels, myosin light chain kinase, and myosin light chain phosphatase. *2012 Annual Meeting of Association for Research in Vision and Ophthalmology*. Fort Lauderdale, FL

Potts LB, Kuo L, Xu W, Hein TW. Signaling pathway for porcine retinal arteriolar constriction to PKC activation: roles of L-type voltage-operated calcium channels, myosin light chain kinase, and myosin light chain phosphatase. *2012 Texas A&M Health Science Center College of Medicine Student Research Symposium*. College Station, TX

Potts, L, E. Kuo, G. Lu, Y. Ren, E. Ngo, L. Kuo, T. Hein. ROCKII isoform and PKC mediate porcine retinal arteriolar constriction to endothelin-1. *2011 Annual Meeting of Association for Research in Vision and Ophthalmology*. Fort Lauderdale, FL

Potts L, Hein T, Lu G, Ren Y, Ngo E, and Kuo L. Selective activation of ROCK2 isoform contributes to vasomotor regulation of retinal arterioles. *FASEB J.* 25:816.6, 2011. Presented at Experimental Biology 2011, Washington, D.C.

Potts, L, Xu X, Liu H, Ren Y, Kuo L, and Hein TW. Temporal development of retinal arteriolar endothelial dysfunction in early stage of diabetes in porcine model. *2010 Texas A&M Health Science Center Research Symposium*. College Station, TX

Hein T, **Potts L**, Ren Y, and Kuo L. Retinal arteriolar endothelial dysfunction in early stage of diabetes in porcine model. *FASEB J.* 24:592.4, 2010. Presented at Experimental Biology 2010, Anaheim, CA

Potts, L, Gray H, and Shtoyko T. The design and development of novel sensor materials for toxic heavy metal detection and sequestration. *229th National Meeting of the American Chemical Society*. San Diego, CA. 2005.

Potts, L, Gray H, and Taylor B. Uranium diffusion in responsive decontaminating coatings. *231st National Meeting of the American Chemical Society*. Atlanta, GA. 2006.

Publications

Potts LB, Bauer AJ, Xu DN, Chen SY, Alqudah AA, Sanchez PJ, Straiko MD, Terry MA. The last 200 surgeon-loaded Descemet membrane endothelial keratoplasty tissue versus the first 200 preloaded Descemet membrane endothelial keratoplasty tissue. *Cornea*. 2020 Oct;39(10):1261-1266.

Straiko MD, Bauer AJ, Straiko MMW, **Potts LB**, Chen SY, Tran KD, Terry MA. Donor DMEK tissue characteristics: association with rebubble rate and 6-month endothelial cell loss. *Cornea*. 2020 Oct;39(10):1267-1273.

Su MG, **Potts LB**, Tsai JH. Treatment of periocular basal cell carcinoma with neoadjuvant vismodegib. *Am J Ophthalmol Case Rep*. 2020 May;23(19):100755.

Potts LB, Phillips C, Hwang M, Fulcher S, Choi H. Rescue of human corneal epithelial cells after alkaline insult using renalase derived peptide, RP-220. *Int J Ophthalmol*. 2019 Nov;12(11):1667-1673.

Chen SY, Tran KD, Wehrer S, **Potts LB**, Bauer AJ, Straiko MD, Terry MA. Patent blue as an alternative stain for DMEK grafts: safety, stain retention, and feasibility. *Cornea*. 2019 Oct;38(10):1322-1327.

Choi H, Phillips C, Oh JY, **Potts LB**, Reger RL, Prockop DJ, Fulcher S. Absence of therapeutic benefit of the anti-inflammatory protein TSG-6 for corneal alkali injury in a rat model. *Curr Eye Res*. 2019 Aug;44(8):873-881.

Xie W, Zhao M, Tsai SH, Burkes WL, **Potts LB**, Xu W, Payne HR, Hein TW, Kuo L, Rosa RH Jr. Correlation of spectral domain optical coherence tomography with histology and electron microscopy in the porcine retina. *Exp Eye Res*. 2018;177:181-190.

Song Y, Izumi N, **Potts LB**, Yoshida A. Tranexamic acid-induced ligneous conjunctivitis with renal failure showed reversible hypoplasminogenaemia. *BMJ Case Rep*. 2014 May 19. Published Online.

Potts LB, Bradley PD, Xu W, Kuo L, Hein TW. Regulation of endothelin system and protein kinase C activation in porcine retinal arterioles by endothelium. *Invest Ophthalmol Vis Sci*. 2013 Nov 15;52(12):7587-94.

Hein TW, **Potts LB**, Xu W, Yuen JZ, Kuo L. Temporal development of retinal arteriolar endothelial dysfunction in porcine type I diabetes. *Invest Ophthalmol Vis Sci*. 2012 Dec 3;53(13):7943-9.

Potts LB, Ren Y, Lu G, Kuo E, Ngo E, Kuo L, Hein TW. Constriction of retinal arterioles to endothelin-1: requisite role of rho kinase independent of protein kinase C and L-type calcium channels. *Invest Ophthalmol Vis Sci*. 2012 May 17;53(6):2904-12.

Hein TW, Ren Y, **Potts LB**, Yuan Z, Kuo E, Rosa RH Jr, Kuo L. Acute retinal ischemia inhibits endothelium-dependent nitric oxide-mediated dilation of retinal arterioles via enhanced superoxide production. *Invest Ophthalmol Vis Sci*. 2012 Jan 3;53(1):30-6.

Professional Organizations

- Association for Research in Vision and Ophthalmology
- American Society of Cataract and Refractive Surgeons
- American Academy of Ophthalmology
- Texas Ophthalmological Association
- Dallas Academy of Ophthalmology
- Cornea Society
- Paton Society
- Eye Bank Association of America
- Christian Medical and Dental Associations

Personal Interests

Spending time with family, Bible, Piano, Gardening

Foreign Languages

Some Spanish