

## **Luke B. Potts**

### **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

### **Current Licensure**

- Oregon
- 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**

- 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)
- Christian Medical and Dental Association (01/2007 - 12/2007)

### **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**

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 ligenous 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;(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**

- American Association of Physicians and Surgeons
- American Society of Cataract and Refractive Surgeons, Member-in-Training
- American Academy of Ophthalmology, Member-in-Training
- Cornea Society, Member-in-Training

### **Personal Interests**

Spending time with family, Bible study and exegesis, Playing piano

### **Foreign Languages**

Some Spanish