

CURRICULUM VITAE

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ADDRESS:

Work:

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EDUCATION:

- 1985 M.S. (Immunology) Tongji Medical University, Graduate School, Wuhan, China
1982 M.D. Tongji Medical University, School of Medicine, Wuhan, China

POSTGRADUATE TRAINING:

- 1999-2001 Vitreoretinal Fellowship, Department of Ophthalmology, University of Washington, Seattle [Mentors: Robert E. Kalina, M.D., James L. Kinyoun, M.D., Elaine L. Chuang, M.D., **David A. Saperstein, M.D.(Program Director)** and Krzysztof Palczewski, Ph.D.(Research mentor)]
1996-1999 Residency in Ophthalmology, University of Texas Southwestern Medical Center, Dallas [**Director: David R. Weakley, M.D.**]
1995-1996 Transitional Internship, University of Texas Southwestern Medical Center, Dallas. [**Director: James P. McCulley, M.D.**]
1990-1995 Research Assistant Professor, Department of Ophthalmology, University of Texas Southwestern Medical Center, Dallas [**Senior Faculty: Dr. Jerry Niederkorn**]
1988-1990 Research Fellow in Cornea Disease/Immunology, University of Texas Southwestern Medical Center, Dallas [**under the direction of Drs. EunDuck Kay and James McCulley**]
1986-1988 Residency in Ophthalmology, Tongji Medical University, Wuhan, China

FACULTY AND TEACHING POSITIONS:

- 2006- **Associate Professor**, Department of Ophthalmology, University of Texas Southwestern Medical Center at Dallas
2005- **Director of Vitreoretinal Fellowship Program**, Department of Ophthalmology, University of Texas Southwestern Medical Center at Dallas
2001-2006 **Assistant Professor**, Department of Ophthalmology, University of Texas Southwestern Medical Center at Dallas
1999-2001 **Acting Instructor**, Department of Ophthalmology, University of Washington, Seattle
1990-1995 **Research Assistant Professor**, Department of Ophthalmology, University of Texas Southwestern Medical Center, Dallas

BOARD CERTIFICATION

❖ **Diplomat**, American Board of Ophthalmology

HONORS AND AWARDS:

- * A basic research award in corneal transplantation, Tissue Banks International, Baltimore, Md. (1991)
- Fisons Travel Grant Award for presenting at CLAO Annual Meeting, Las Vegas, Nev. (1992, 1993)
- First Prize Honor for scientific paper presentation at 1992 CLAO Annual Meeting, for distinguished contribution to the dissemination of knowledge in ophthalmic science.
- ARVO Travel Fellowship Award (1993)
- A basic science research award in cardiology, American Heart Association, Dallas, Texas (1995)
- James A. Shannon Director's Award, National Eye Institute (1995)
- The AUPO Resident and Fellow Research Forum Scholarship Recipient (two times: 1999 & 2001)
- First and current holder of Zora Meagher Macular Degeneration Research Professorship (2006)
- *D Magazine's* "Best Doctors in Dallas" (2008, 2009, 2010)
- Texas Monthly (2008, 2009, 2010, 2011) Texas Super Doctors (as voted on by his peers and a blue ribbon panel)
- ARVO/Alcon Early Career Clinician-Scientist Research Award (2009)
- Small Business Innovation Research Award by NIH/NEI, "Validation of a Novel Vision Assessment System" (2010)
- Texas Emerging Technology Fund (TETF) award for helping to develop *MyVisionTrack*, a handheld application capable of diagnosing and monitoring age-related macular degeneration and diabetic retinopathy (2011)
- Current holder of the Josephine Long Biddle Chair in Age-Related Macular Degeneration Research (2011)

RESEARCH INTERESTS:

- Retinal cell biology • Ocular inflammation • Treatment and prevention of age-related macular degeneration and angiogenic/ischemic retinopathy

CLINICAL STUDIES: (YU-GUANG HE, CLINICAL INVESTIGATOR)

- The Natural History Of Geographic Atrophy Progression (GAP Study); Sponsor, Alcon
- The Efficacy And Safety Of Ranibizumab Injection With Macular Edema Secondary To Branch Retinal Vein Occlusion; Sponsor, Genentech
- The Efficacy And Safety Of Ranibizumab Injection With Macular Edema Secondary To Central Retinal Vein Occlusion; Sponsor, Genentech
- The Efficacy And Safety Of Ranibizumab Injection In Subjects With Clinically Significant Macular Edema Secondary To Diabetes Mellitus; Sponsor, Genentech
- The Efficacy Of Drug Delivery Systems In Patients With Choroidal Neo-Vascularization Secondary To Age-Related Macular Degeneration; Sponsor, Allergan
- Study Of The Efficacy, Safety And Tolerability Of Repeated Doses Of Intravitreal VEGF Trap-Eye In Subjects With Neovascular Age-Related Macular Degeneration (VIEW 1); Sponsor, Regeneron
- Multi-Center Study To Evaluate The Safety And Tolerability Of Ranibizumab In Subjects With Choroidal Neovascularization; Sponsor, Regeneron
- Geographic Atrophy Treatment Evaluation (GATE) Study ; Sponsor, Alcon
- Double-Blind; Placebo-Controlled Study To Evaluate The Ocular Safety Of SCH530348 In Subjects Participating In The Schering-Plough P04737 Study (TRA-Secondary Prevention Ocular Safety Study); Pending; Schering Plough, Sponsor.
- An Evaluation Of Posterior Juxtасlеrаl Administration Of Anecortave Acetate For Depot Suspension Vs. Sham Administration In Patients At Risk For Developing Sight-Threatening Choroidal Neovascula (ARTT); Sponsor, Alcon
- Age-Related Eye Disease Study 2 (AREDS 2); Sponsor, National Eye Institute
- Serum Levels Of Malondialdehyde (MDA) And Other Oxidative Products In Patients With AMD And Control Subjects; Investigator Initiated
- Visual Integration In Aging And Macular Degeneration; Investigator Initiated

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PUBLICATIONS:

1. **HE Y**, Zhang L: Misdiagnosis and surgical therapy of meibomian carcinoma. Chinese Ophthalmic Research 1987;5(2):125.
2. **HE Y**, Zhang L, Chen R: The immunologic studies of experimental heterogeneous lamellar keratoplasty. Chinese Ophthalmic Research 1987;5(3):157.
3. Kay EP, **HE Y**: Corneal endothelial modulation factor released by polymorphonuclear leukocytes: partial purification and initial characterization. Invest Ophthalmol Vis Sci 1990;31(2):313-22.
4. Kay EP, **HE Y**: Post-transcriptional and transcriptional control of collagen gene expression in normal and modulated rabbit corneal endothelial cells. Invest Ophthalmol Vis Sci 1991;32(6):1821-7.
5. **HE Y**, Niederkorn J, McCulley JP, Stewart G, Meyer D, Silvany R, Dougherty J: *In vivo* and *in vitro* collagenolytic activity of *Acanthamoeba castellanii*. Invest Ophthalmol Vis Sci 1990;31(11):2235-40.
6. **HE Y**, Ross J, Callanan D, Niederkorn J: Acceptance of H-Y-Disparate corneal grafts despite concomitant immunization of the recipient. Transplantation 1991;51(6):1258-62.
7. Ross J, **HE Y**, Pidherney M, Mellon J, Niederkorn J: The differential effects of donor versus host Langerhans cells in the rejection of MHC-matched corneal allografts. Transplantation 1991; 52:857-61.
8. McCulley J, **HE Y**, Meyer D, Moore MB, Li J: *In vitro* transfer of rabbit corneal epithelium from carriers to denuded corneal or cryolathed lenticules. Cornea 1991;10(6):466-77.
9. **HE Y**, Ross J, Niederkorn J: Promotion of murine orthotopic corneal allograft survival by systemic administration of anti-CD4 monoclonal antibody. Invest Ophthalmol Vis Sci 1991;32:2723-8.
10. Ross J, **HE Y-G**, Niederkorn J: Class I disparate corneal grafts enjoy afferent but no efferent blockade of immune response. Curr Eye Res 1991;10(9):889-92.
11. **HE Y-G**, McCulley JP: Growing human corneal epithelium on collagen shields and subsequent transfer to denuded cornea *in vitro*. Curr Eye Res 1991;10(9):851-63.
12. **HE Y-G**, McCulley J, Alizadeh H, Niederkorn J: A pig model of *Acanthamoeba* keratitis: transmission via contaminated contact lenses. Invest Ophthalmol Vis Sci 1992;33:126-33.
13. Niederkorn J, Ubelaker J, McCulley J, Stewart G, Silvany R, **HE Y-G**, Alizadeh H: Susceptibility of corneas from various animal species to *in vitro* binding and invasion by *Acanthamoeba castellanii*. Invest Ophthalmol Vis Sci 1992;33:104-12.

14. Wilson SE, Lloyd SA, **HE Y-G**: Epidermal growth factor, basic fibroblast growth factor, and transforming growth factor beta messenger RNA production in rabbit corneal epithelial cells *in vitro* and *ex vivo*. Invest Ophthalmol Vis Sci 1992;33:1987-95.
15. Wilson SE, **HE Y-G**, Lloyd SA: EGF, EGF receptor, basic FGF, TGF beta-1, and IL-1 alpha mRNA in human corneal epithelial cells and stromal fibroblasts. Invest Ophthalmol Vis Sci 1992;33:1756-65.
16. Niederkorn JY, Ross J, **HE Y-G**: Effect of donor-derived Langerhans cells on corneal graft rejection. J Invest Dermatol 1992;99:104S-106S.
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18. Van Klink F, Alizadeh H, Stewart GL, Pidherney MS, Silvany RE, **HE Y-G**, McCulley JP, Niederkorn JY: Characterization and pathogenic potential of a soil isolate and an ocular isolate of *Acanthamoeba castellanii* in relation to *Acanthamoeba* keratitis. Curr Eye Res 1992;11:1207-20.
19. Wilson SE, Lloyd SA, **HE Y-G**: Fibroblast growth factor expression in human corneal cells. Cornea 1993;12(3):249-54.
20. Wilson SE, Lloyd SA, **HE Y-G**, McCash C: Extended life of human corneal endothelial cells transfected with SV40 large T antigen. Invest Ophthalmol Vis Sci 1993;34:2112-23.
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23. Wilson SE, **HE Y-G**, Weng J, Zeiske JD, Jester JV, Schultz GS: Effect of epidermal growth factor, hepatocyte growth factor, and keratinocyte growth factor, on proliferation, motility, and differentiation of human corneal epithelial cells. Exp Eye Res 1994;59:665-78.
24. Wilson SE, Schultz GS, Chegini N, Weng J, **HE Y-G**: Epidermal growth factor, transforming growth factor alpha, transforming growth factor beta, acidic fibroblast growth factor, basic fibroblast growth factor, and interleukin-1 proteins in the cornea. Exp Eye Res 1994;59:63-72.
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41. Lindqvist, A, **HE Y-G**, and Anderson S: Cell type-specific expression of β -carotene 9,10-monooxygenase in human tissues. Journal of Histology and Cytology 2005; 53:1403-1412
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Meeting Presentations/Abstracts:

Y-G, HE, Biren Zhao, Jason Lee, Dinesh Bahl, Jessica McCluskey, Hao Wang. Elevated Vascular Growth Factor Levels in Coats’ Disease and a Response to Intravitreal Bevacizumab. American Society of Retinal Specialists Annual Meeting, New York, NY, October, 2009

HE Y-G, I.Vrcek, B. Zhao, J.M. Johnston: The Link Between the Presentation of Malondialdehyde and Age-Related Macular Degeneration (AMD); Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. May, 2009

C. Chen, **HE Y-G**, J. Whitson. Evaluation of Nepafenec Treatment of Cystoid Macular Edema; Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL, May 2009

Y-G.He, I. Vrcek, B. Zhao, J. M. Johnston: The Link Between Presentation of Malondialdehyde and Age-Related Macular Degeneration (AMD); Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. May, 2008

Y-G. He, D. Liao, B. Zhao, J. Owens, (Wake Forest University Health Sciences, NC), J. M. Johnston Role of Platelet-Activating Factor in the Pathogenesis of Age-Related Macular Degeneration (AMD). Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL, May 2007

H. Wang, M. Hsu, **Y. He**, J. M. Johnston. Role of Platelet-Activating Factor in the Migration and Proliferation of Choroidal Vascular Endothelial Cells. Poster; Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. May, 2007

Y. He, B. Zhao, J. S. Owen, (Wake Forest University Health Sciences, NC), J. M. Johnston. Detection of Platelet-Activating Factor (PAF) in Cultured Human Pigment Epithelial Cells. Poster; Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. May, 2006

P.D. Williams, R.Wang, **Y. He**. The Effect of Intravitreal Triamcinolone Acetonide Injection on Macular Edema Due to Branch Retinal Vein Occlusion. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. May 4, 2005.

Y. Chiu, **Y. He**, M. Lu. Treatment Outcome of Threshold Retinopathy of Prematurity in a Dallas Hospital with Predominantly Hispanic Premature Infants. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. May 4, 2005.

Y. He, B. Zhao, S. Anderson, J.P. McCulley, J.M. Johnston. Expressions of Platelet-Activating Factor Receptors (PAF-R) on Human Retinal Pigment Epithelial Cells. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. May 4, 2005.

D. Parver, S.Y. Lee, **Y. He**, J.P. McCulley. Evaluation of Vitreo-Retinal Procedures Combined with Cataract Extraction and Implantation of the Acrysof Natural Intraocular Lens. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. April 25, 2004.

P.D. Williams, **Y. He**, K.S. Kooner, K. Mitchell. The Suppressive Effect of Glaucoma and Diabetic Retinopathy. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. April 25, 2004.

S. Wang, H. Li, **Y. He**, E. Mayhew, J.Y. Niederkorn. Role of Interferon - Gamma and Tumor Necrosis Factor-Related Apoptosis - Inducing Ligand (TRAIL) in the Immune Rejection of Syngeneic Intraocular Tumors. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. May 4, 2003.

Y. He, E. Mayhew, J. A. Mellon, J.Y. Niederkorn. Expression and Function of IL-2 and IL-14 Receptors on Human Uveal Melanoma Cells. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. May 4, 2003.

- K. Siu, K. Mitchell, **Y. He**. Visual Outcomes and a Patient Satisfaction Survey after Photodynamic Therapy for Age-Related Macular Degeneration. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. May 5, 2003.
- D. Parver, S.El-Agha, **Y. He**. Treatment Outcomes in Different Subgroups of Endophthalmitis. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL. May 5, 2003.