

Jing YANG, M.D., Ph.D.

Assistant Professor, Department of Ophthalmology, School of Medicine, University of California, Irvine

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- **15 years, total, professional experience in translational research together with clinical practice in ophthalmology**
- **7 years in executive scientific operations of translational research lab**
- **Co-investigator of the \$17.3M CIRM Disease Team Award, UC Irvine**
- **Co-investigator of the \$4.7M CIRM Early Translational Award, UC Irvine; this was a 3 years project that was accomplished in 1 year and 3 months.**
- **Co-discovery of the novel stem cell therapy approach, UC Irvine patent-pending technology**
- **Novel cell therapy product for retinal degeneration; IND filing, cGMP manufacturing, proof-of -concept and toxicology GLP studies, clinical trial design, IND filing.**
- **Expert in neural and retinal stem cells**
- **Expert in pre-clinical development and cell transplantation**
- **Comprehensive clinical experience (6+ years):**
 - **General patient reception: 13,000+ cases in office, 1,200+ cases in emergency room**
 - **Trabeculectomy surgery: 300+ cases**
 - **ECCE, phaco, & IOL implantation surgery: 70+ cases**
 - **Assistance in retinal and vitreoretinal surgery: 200+ cases**

EDUCATION:

- Ph.D. (2006) Ophthalmology, Peking University, China
- M.D. (2000) Ophthalmology, Jilin University, China

EMPLOYMENT

Academic appointments

University of California, Irvine, California

Department of Ophthalmology, School of Medicine

Assistant Professor (2013- current)

University of California, Irvine, California

Department of Ophthalmology, School of Medicine

Project Scientist (2011 - 2013)

University of California, Irvine, California

Department of Ophthalmology, School of Medicine

Specialist (2006 - 2011)

University of Copenhagen, Copenhagen, Denmark

Department of International Health Immunology and Microbiology

Visiting Scholar (2005 - 2006)

University of Copenhagen, Copenhagen, Denmark

Department of International Health Immunology and Microbiology

Visiting Scholar (2003-2004)

Clinical appointments

Peking University Third Hospital, Peking University, Beijing, China

Department of Ophthalmology

Chief Resident of Ophthalmology (2000)

Peking University Third Hospital, Peking University, Beijing, China

Department of Ophthalmology

Ophthalmology Residency (1999-2005)

Jilin University First Hospital, Jilin, China

Internship (1998-1999)

EDITORIAL SERVICE:

- Clinical Rehabilitative Tissue Engineering Research: Executive Reviewer since 2007
- International Journal of Biomedical Science: Reviewer since 2009
- Journal of Neuroscience Research: Reviewer since 2009

MEMBERSHIP OF SOCIETIES/ ORGANIZATIONS:

- The Global Forum for Therapeutic Innovation & Regulatory Science: 2013-Present
- The Association for Research in Vision and Ophthalmology (ARVO): 2005-Present
- Chinese Medical Doctor Association: Ophthalmologist/Physician, 1999-2005

AWARDS:

- 2006: The Association for Research in Vision and Ophthalmology, International Award
- 2006: The China Association for Science and Technology, Excellent Paper Award
- 1997: Excellent Medical Student of Jilin University, China

PATENT APPLICATION:

1. **Jing Yang**, Henry Klassen. Compositions and methods for treating retinal diseases. US Patent No. UC-2011-730-1, 2012.

PUBLICATIONS:

1. Qin Z, Yang J, Klassen H, Aswad DW. Isoaspartyl protein damage and repair in mouse retina. *Invest Ophthalmol Vis Sci.* 2014 Mar 13;55(3):1572-9.
2. Jing Yang, Ping Gu, Steven Megens, Henry Klassen. Quantitative changes in gene transcription during induction of differentiation in porcine neural progenitor cells. *Mol Vis.* 2012;18:1484-504.
3. Jing Yang, Jinmei Wang, Ping Gu, X. Joann You, and Henry J. Klassen. Feline neural progenitor cells I: Long-term expansion of under defined culture conditions. *Stem Cells Int.* 2012;2012:108340.
4. X. Joann You, *Jing Yang, Ping Gu, Chee Gee Liew, and Henry J. Klassen. Feline neural progenitor cells II: Use of novel plasmid vector and hybrid promoter to drive expression of Glial Cell Line-Derived Neurotrophic Factor transgene. *Stem Cells Int.* 2012;2012:604982. *Co-first author.
5. Chee Gee Liew, Laughing Bear Torrez, Yukie Perez, Nicole Isolde zur Nieden, Jing Yang, Henry J. Klassen. Derivation of neural progenitors and retinal pigment epithelium from common marmoset and human pluripotent stem cells. *Stem Cells Int.* 2012;2012:417865.
6. X.Joann You, Ping Gu, Jinmei Wang, Tianran Song, Jing Yang, Chee Gee Liew, Henry Klassen. Efficient Transduction of Feline Neural Progenitor Cells for Delivery of Glial Cell Line-Derived Neurotrophic Factor

- Using a Feline Immunodeficiency Virus-Based Lentiviral Construct. *Journal of Ophthalmology*, 2011, pii: 378965.
7. Wang J, Yang J, Gu P, Klassen H. Effects of glial cell line-derived neurotrophic factor on cultured murine retinal progenitor cells. *Molecular Vision* 2010 Dec 31; 16: 2850-66.
 8. Cho SJ, Lee YS, Lee JI, Bang JI, Yang J, Klassen H, Kong IK. Confirmation of Germ-Line Transmission in the Red Fluorescence Protein (RFP) transgenic Cloned Male Cat. *Cell Reprogram*; 2010 Dec; 12 (6): 739-47.
 9. Ping Gu, *Jing Yang, Jinmei Wang, Henry Klassen. Sequential changes in the gene expression profile of murine retinal progenitor cells during the induction of differentiation. *Molecular Vision* 2009 Oct 20; 15: 2111-22. *Co-first author.
 10. Redenti S, Neeley WL, Rampani S, Saigal S, Yang J, Klassen H, Langer R, Young MJ. Engineering retinal progenitor cell and scrollable poly(glycerol-sebacate) composites for expansion and subretinal transplantation. *Biomaterials* 2009; 30(20): 3405-14.
 11. *Jing Yang, Henry Klassen, Mette Pries, Wei Wang, Mogens Holst Nissen. Vitreous humor and albumin augment the proliferation of cultured retinal precursor cells. *Journal of Neuroscience Research* 2009; 87(2): 495-502. *Corresponding author
 12. Xiaoyong Chen, Jing Yang, Chun Zhang, Wei Wang. The randomly sampling survey of glaucoma awareness in general clinic. *Chinese Ophthalmic Research* 2009; 27(5): 425-428.
 13. Stephen Redenti, Sarah Tao, Jing Yang, Ping Gu, Henry Klassen, Sunita Saigal, Tejal Desai and Michael J. Young. Retinal tissue engineering using mouse retinal progenitor cells and a novel biodegradable, thin-film poly(e-caprolactone) nanowire scaffold. *Journal of Ocular Biology, Diseases, and Informatics* 2008; 1:19-29.
 14. *Jing Yang, Henry Klassen, Mette Pries, Wei Wang, Mogens Holst Nissen. Aqueous humor enhances the proliferation of rat retinal precursor cells in culture and this effect is partially reproduced by ascorbic acid. *Stem Cells* 2006; 24: 2766-2775. *Corresponding author
 15. *Jing Yang, Mogens Holst Nissen, Wei Wang. Isolation, culture and identification of rat retinal progenitor cells in vitro. *Zhonghua Yanke Zazhi* 2006; 42 (2): 104-110. *Corresponding author
 16. Jing Yang, Chun Zhang, Wei Wang . The application of amniotic membrane in glaucoma surgery. *Zhongguo Shiyongyanke* 2003; 12:169-172.