

CURRICULUM VITAE

SOPHIE XIAOHUI DENG

PROFESSIONAL ADDRESS:

Cornea Division
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EDUCATION:

- 1989-1991 *Bachelor of Science (BS) Phi Beta Kappa*, The City College of New York, City University of New York
- 1994-2001 *Doctor of Medicine (MD)*, University of Rochester, School of Medicine and Dentistry
- 1994-2001 *Doctor of Philosophy (PhD) in Immunology and Microbiology*, University of Rochester, School of Medicine and Dentistry

Postgraduate Training

- 2001-2002 Internship, Internal medicine
Department of Medicine, University of Tennessee at Memphis
- 2002-2005 Residency in Ophthalmology
Department of Ophthalmology, University of Illinois, Chicago

Fellowship Training

- 2005-2006 Heed Fellow
Cornea, External Ocular Diseases and Refractive Surgery Fellowship Program
Stein Eye Institute, Department of Ophthalmology, David Geffen School of Medicine at UCLA

PROFESSION EXPERIENCE

- 2017- Professor, Stein Eye Institute, Department of Ophthalmology, David Geffen School of Medicine at UCLA
- 2013-2017 Associate Professor, Stein Eye Institute, Department of Ophthalmology, David Geffen School of Medicine at UCLA
- 2013- Co-Director, Center for Regenerative Medicine in Ophthalmology

Stein Eye Institute, Department of Ophthalmology, David Geffen School of Medicine at UCLA

- 2007-2013 Assistant Professor, Stein Eye Institute, Department of Ophthalmology, David Geffen School of Medicine at UCLA
- 2007-2013 Consultant, Cornea Service, VA Great Los Angeles Health Care System
- 2006-2007 Associate Physician Diplomate, Stein Eye Institute, Department of Ophthalmology, UCLA School of Medicine
- 1991-1994 Research Assistant, The Rockefeller University

CERTIFICATION AND LICENSURE

Diplomate, National Board of Medical Examination, 2002
 Diplomate, American Board of Ophthalmology, 2007
 State of California Medical License, 2005-present

HONORS AND AWARDS:

- 1989 Heymann Scholarship.
- 1990 Arthur G. Levy Award.
- 1991 Seymour Mann Award.
- 1991 Francis Hochman Award.
- 1991 Marks Neidle Memorial Prize in Physical Chemistry.
- 1991 Dean's List.
- 1991 Research Honors.
- 1991 Bachelor of Science, *Magna Cum Laude*.
- 1991 *Phi Beta Kappa*
- 1994 Fannie & Henry Rice Scholarship.
- 1994 Helen Kingsbury Medical Student Scholarship.
- 1995 John A. Hartford/AFAR Medical Student Geriatric Scholar.
- 2005 Beem-Fisher Award, First Place for Best Resident Scientific Paper.
 Chicago Ophthalmological Society.
- 2005 Excellence in Resident Research.
 Department of Ophthalmology, University of Illinois, Chicago.
- 2005 Heed Foundation Fellowship (July 2005 to June 2006).
- 2009 Best of Show in Anterior Segment Reconstruction, "Analysis of the Corneal and Limbal Epithelial Changes in Limbal Stem Cell Deficiency"
 The America Society of Cataract and Refractive Surgery 2009 Annual Meeting.
 San Francisco, California
- 2010 Prevent Blindness America Investigator Award.
- 2016 2016 THz Science and Tech. Best Paper Award (co-Author)
- 2016 Achievement Award, American Academy of Ophthalmology

PROFESSIONAL ACTIVITIES

Honor Society Memberships

- 1989 Sigma XI Research Fellow.
- 1991 Phi Beta Kappa.

2005 Heed Fellow

Professional Organization Memberships:

Fellow, American Academy of Ophthalmology.
 Member with Thesis, The Cornea Society.
 Member, Association for Research in Vision and Ophthalmology.
 Member, California Academy of Ophthalmology.
 Member, Los Angeles Society of Ophthalmology.
 Member, Max Fine California Cornea Society.
 Member, Women in Ophthalmology

University Services:

2008 Ophthalmology Resident Selection Committee, UCLA Department of Ophthalmology
 2007- Clinical Quality Assurance Committer, UCLA Department of Ophthalmology
 2007- Jules Stein Eye Institute Noon Research Seminar Organizing Committee, UCLA
 Department of Ophthalmology
 2007- Consultant, Cornea Service, VA Great Los Angeles Health Care System
 2009- Grant reviewer, Council on Research Faculty Grant Program, UCLA

Community and Professional Services

2007-2009 Editorial Board Member, Ocular TRUST Program, Vistakon Pharmaceuticals, LLC.
 2010-2016 Ophthalmic Technology Assessment Committee, Cornea and Anterior Segment
 Disorders Panel, America Academy of Ophthalmology.
 2011- Committee Member, Limbal Stem Cell Deficiency Workshop on the Definition,
 Diagnosis and Treatment of Limbal Stem Cell Deficiency
 2015-2017 Subcommittee member, Management & Therapy, TFOS Dry Eye Workshop II
 (DEWS II)
 2015-2018 Member, Annual Meeting Program Committee (Cornea Section), Association for
 Research in Vision and Ophthalmology
 2016- Co-organizer, Vista conference, Cornea Society
 2017 Member, Program Committee, Cornea Day at the America Society of Cataract and
 Refractive Surgery Annual Meeting
 2017- Representative, Cornea Society, Association of University Professors of
 Ophthalmology Fellowship Compliance Committee
 2018- Board of Directors, Cornea Society

Editorial Services to Scholarly Publications

Editorial Board:

2017- Cornea
 2018- The Ocular Surface

Reviewer

2008- Reviewer, Molecular Vision
 2009- Reviewer, Cornea
 2010- Reviewer, Investigational Ophthalmologic Vision Sciences
 2010- Reviewer, Survey of Ophthalmology

2010-	Reviewer, Eye
2010-	Reviewer, Cell Transplantation
2011-	Reviewer, American Journal of Ophthalmology
2011-	Reviewer, Journal of Cataract and Refractive Surgery
2011-	Reviewer, British Journal of Ophthalmology
2011-	Reviewer, Experimental Eye Research
2011-	Reviewer, JAMA Ophthalmology (Archive of Ophthalmology)
2012-	Reviewer, European Journal of Ophthalmology
2012-	Reviewer, Ophthalmology
2012-	Reviewer, PlosOne
2013-	Reviewer, Stem Cells
2014-	Reviewer, Nature Scientific Report
2015-	Reviewer, Stem Cell Research
2016-	Reviewer, Stem Cells Translational Medicine

Clinical Trials

- 2010 Principle Investigator (UCLA site), “Safety and Efficacy Study of Azithromycin Ophthalmic Solution, 1% versus Placebo in Subjects with Blepharitis”, Inspire Pharmaceutical, Inc.
- 2012- Investigator, “A Randomized, Multicenter, Double-Masked Cornea Preservation Time Study”, National Eye Institute.
- 2014-16 Principle Investigator (UCLA site), “Evaluation of Efficacy of 20 µg/ml rhNGF new formulation (with anti-oxidant) in patients with stage 2 and 3 Neurotrophic Keratitis”, Dompé Corp.
- 2017- Investigator, “Zoster Eye Disease Study”, National Eye Institute.
- 2017- Investigator, “A Phase I/II Prospective, Randomized, Multicenter, Double-Masked, Vehicle-Controlled Clinical Trial to Evaluate the Safety and Efficacy of Corneal Collagen Cross-Linking of Keratoprosthesis Carrier Tissue in High-Risk Keratoprosthesis Implantation”, Department of Defense, U.S.

Consulting Activities

1. Baush & Lomb, ad hoc consultant
2. Santen Pharmaceutical., expert panelist on treatment of dry eyes at a roundtable discussion at AROV 2014 annual meeting
3. Hoya Corp., lunch symposium on endothelial keratoplasty at World Ophthalmology Congress 2014
4. Visionary International, Board Member
5. Fudan University, Eye, Ear and Throat Hospital, Shanghai, P.R.China
6. Chiesi Farmaceutici S.P.A. 2016 to Present

PATENTS

1. PCT/US2013/044375 (pending): Novel methods to regenerate limbal stem cells
2. PCT/US17/65869 (pending): Xenobiotic-free culture system to expand limbal stem cells
3. PCT/US2018/62638045 (Pending): Stem cell-derived exosomes for the treatment of corneal scarring

RESEARCH GRANTS AND FELLOWSHIPS RECEIVED:**Ongoing Research Support**

CLIN1-08686 08/01/2016-12/31/2018

California Institute for Regenerative Medicine (CIRM)
Regeneration of a Normal Corneal Surface by Limbal Stem Cell Therapy

Role: PI

R01 EY021797 09/01/12-08/31/18

NIH/NEI
Ex Vivo Expansion of Limbal Stem Cells for Transplantation

Role: PI

Past Research Support:

R01 EY022364 Lu (PI) 09/01/13-08/31/17

NIH/NEI
Differential Effects of Corneal Hypoxia on Limbal Stem and Epithelial Cell Fates

Role: Consultant

R01 1R01EY021590-01 Grundfest (PI) 07/01/11-06/31/16

NIH
Non-Contact, THz Sensing of Corneal Hydration

Role: co-Investigator

Unrestricted Research Grant 07/01/14-06/30/15

Research to Prevent Blindness

Role: PI

CIRM BF-01768 08/1/14-1/29/15

Regeneration of Functional Human Corneal Epithelial
Progenitor Cells

Role: PI

TR2-01768 03/01/11-02/28/14

California Institute for Regenerative Medicine (CIRM)
Regeneration of Functional Human Corneal Epithelial Progenitor Cells

Role: PI

T32 EY007026-35 Travis (PI) 10/30/05-09/30/11

NIH/NEI
Jules Stein Eye Institute Training Grant for Vision Research

Role: Preceptor

Investigator Award 07/01/10-06/30/11

Prevent Blindness of America
Characterization and Staging of Limbal Stem Cell Deficiency using *in vivo* Confocal Laser
Scanning Microscopy

Role: PI

Faculty Research Grant 07/01/09-6/30/10

UCLA

Regeneration of limbal stem cells from epidermal epithelial stem cells

Role: PI

Oppenheimer Translational Research Seed Grant 07/01/08-6/30/09

UCLA

Isolation of human epidermal epithelial progenitor cells

Role: PI

Research Grant 07/01/05-06/30/05

Abraham J. & Phyllis Katz Foundation

Antimicrobial Effects of Methotrexate

Role: PI

Research Grant Goldstein (PI) 07/07/04-06/30/05

Illinois Society for the Prevention of Blindness

Use of Methotrexate in Ocular Inflammation

Role: co-PI

INVITED LECTURES AND PRESENTATIONS

- 19 May 06 “Uveitis in Children: Infliximab Treatment of Chronic, Non-Infectious Anterior Uveitis”
The 40th JSEI Annual Clinical and Research Seminar
- 09 Sep 07 “Limbal Stem Cell Deficiency, Approach an Old Problem at a New Angle”
JSEI Vision Conference
Lake Arrowhead, California
- 30 Nov 07 “Intravitreal Methotrexate as a Local Therapy for Uveitis”
First Chinese Conference on Uveitis
Guangzhou, Guangdong, China
- 30 Nov 07 “Boston Type I Keratoprosthesis, Patient Selection and Post-Operative Management”
Zhongshan Ophthalmic Center
Guangdong, China
- 23 May 08 “Red Eye and Collagen Vascular Diseases”
Rheumatology Division Grand Rounds, Department of Medicine,
UCLA David Geffen School of Medicine
- 3 Feb 09 “Ex Vivo Expansion of Limbal Stem Cells”
The Brasel Basic Science Conference
Los Angeles Biomedical Research Institute at UCLA-Harbor Medical Center
- 3 May 09 “Analysis of the Corneal and Limbal Epithelial Changes in Limbal Stem Cell Deficiency Using *in vivo* Confocal Microscopy.”
18th Vista Scientific Conference

- Fort Lauderdale, Florida
- 11 Jun 09 “Activation of Wnt/ β -catenin Promotes Self-Renewal of Human Limbal Stem Cells.”
Gordon Research Conferences on Tissue Repair and Regeneration
New London, New Hampshire.
- 8 Apr 10 “Analysis of Cellular Abnormalities in Limbal Stem Cell Deficiency by *in vivo* Confocal Microscopy”
World Cornea Congress VI
Boston, Massachusetts
- 4 May 10 “Evaluation of Structural Changes in Limbal Stem Cell Deficiency Using *in vivo* Confocal Microscopy.”
The Association for Research in Vision and Ophthalmology (ARVO) 2010 annual meeting
Fort Lauderdale, Florida
- 17 Sep 10 “Descemet Stripping Automated Endothelial Keratoplasty in Endothelial Dysfunction.”
The 25th Asian Pacific Academy of Ophthalmology Congress
Beijing, China.
- 22 Oct 10 “Corneal Epithelial Stem Cells, In Sickness and In Health”
Embryology Club
UCLA Department of Biological Sciences
- 3 Dec 10 “DSEK in Glaucoma Patients”
The 2nd Asian Cornea Society Biennial Scientific Meeting
Kyoto, Japan.
- 18 Mar 11 “Scleritis, Diagnosis and Management.”
Rheumatology Grand Rounds
Department of Medicine, UCLA
- 3 May 11 “Comparative Analysis of Biological Processes and Molecular Functions in the Human Ocular Epithelium: Preferential Gene Expression in the Human Limbus” (senior author).
ARVO 2011 Annual Meeting
Fort Lauderdale, Florida
- 4 May 11 “Wnt/ β -catenin Signaling Regulates Proliferation of Human Cornea Epithelial Stem/Progenitor Cells.”
ARVO 2011 Annual Meeting
Fort Lauderdale, Florida
- 15 Dec 11 “Anterior Segment Reconstruction”
Grand Round, Department of Ophthalmology, Yale University
New Haven, Connecticut
- 29 Jan 12 “Ocular Surface Reconstruction”
Jules Stein Eye Institute-Southern California College of Optometry 2012 Symposium
Los Angeles, California

- 26 Mar 12 “Wnt Signaling in Limbal Stem/Progenitor Cells”
Gordon Research Conferences on Biology and Pathobiology of the Cornea
Ventura, California
- 13 Apr 12 “Elevated Intraocular Pressure is a Common Complication in Active Infectious
Keratitis”
The 27th Asian Pacific Academy of Ophthalmology Congress
Busan, South Korea
- 14 Apr 12 “New Approaches to Detect Limbal Stem Cell Deficiency”
The 27th Asian Pacific Academy of Ophthalmology Congress
Busan, South Korea
- 7 May 2012 “The Role of Wnt6 in Regulating Human Corneal Epithelial Stem/Progenitor Cell
Differentiation” (Senior Author)
ARVO 2012 Annual Meeting
Fort Lauderdale, Florida
- 9 May 2012 “Wnt Signaling Pathway Regulates the Differentiation of Human Corneal Epithelial
Stem/Progenitor Cells via the Frizzled 7 Receptor” (Senior Author)
ARVO 2012 Annual Meeting.
Fort Lauderdale, Florida
- 9 May 2012 “Wnt Signaling in the Regulation of Corneal Epithelial Stem/Progenitor Cells”
Special Interest Group Section (SIG)
ARVO 2012 Annual Meeting.
Fort Lauderdale, Florida
- 19 Apr 2012 “Bioengineering of Limbal Stem Cell for Transplantation”
Shanghai Stem Cell Initiative, Tonji University
Shanghai, China
- 5 Oct 2012 “Anterior Segment Reconstruction”
Grand Rounds, Department of Ophthalmology
Northwestern University, Chicago, Illinois
- 27 Nov 2012 “Use and Misuse of AMT in Keratoplasty”
3rd Biennial Asian Corneal Society Meeting
Manila, Philippine
- 12 Dec 2012 “Anterior Segment Reconstruction”
Grand Rounds, Department of Ophthalmology
University of California, Irvin
- 4 Apr 2013 “Wnt Signaling in the Regulation of Human Corneal Epithelial Stem Cells”
117th Annual Meeting of the Japanese Ophthalmological Society
Tokyo, Japan
- 11 May 2013 “Management of Failed PK: repeat PK vs. DSEK vs. keratoprosthesis”
Advances in Cornea Surgery: Decisions and Dilemmas in a Changing Field
Tissue Bank international Cornea Symposium
Santa Monica, California
- 12 Sep 2013 “TRUST”

- The XIX International Congress of Cornea and Refractive Surgery
Puerto Vallarta, Mexico
- 12 Sep 2013 “Limbal Stem Cell Deficiency”
The XIX International Congress of Cornea and Refractive Surgery
Puerto Vallarta, Mexico
- 18 Sep 2013 “Use and Misuse of AMT in Ophthalmology”
Keynote Lecture
The 7th International Conference on the Tear Film & Ocular Surface (TFOS)
Taormina, Sicily
- 11 Oct 2013 “Limbal Stem Cell Deficiency: the Past, the Present and the Future”
UCI Stem Cell Center Fall Lecture Series
University of California, Irvine
Irvine, California
- 13 Nov 2013 “Engineering replacement cornea from autologous stem cells”
Tissue Engineering International & Regenerative Medicine Society (TERMIS) 2013
America Meeting
Atlanta, Georgia
- 5 Dec 2013 “New Advances in the Treatment and Diagnosis of Limbal Stem Cell Deficiency”
Cedars-Sinai Regenerative Medicine Institute Seminar Series
Los Angeles, California
- 19 Feb 2014 “Bioengineering of Human Limbal Stem/Progenitor Cells”
Gordon Research Conference in Biology and Pathology of the Cornea
Ventura, California
- 4 Apr 2014 “DMEK - Cutting Edge & Future Possibilities”
Lunch symposium, 2014 World Ophthalmology Congress
Tokyo, Japan
- 7 Apr 2014 “Recent Advances in Limbal Stem Cell Deficiency”
Grand Rounds Department of Ophthalmology, Osaka University,
Osaka, Japan
- 25 Apr 2014 “Penetrating Keratoplasty”
Session III: Video Pearls in Keratoplasty Surgery: You NEED to SEE This
Cornea Day, ASCRS 2014
Boston, MA
- 7 May 2014 “The Effect of Wnt Signaling Small Molecule Modulators on the Cultured Human
LSCs”
Application of Molecular Biology to Corneal Regenerative Medicine
2014 ARVO annual meeting
Orlando, FL
- 20 Jul 2014 “Novel Approaches to Expand Limbal Stem Cells”
XXI Biennial Meeting, International Society for Eye Research
San Francisco, CA
- Sep 19 2014 “DMEK – Now and Beyond”

- The 17th AFRO-Asian Congress of Ophthalmology/17th CCOS
Xi'an, P.R. China
- Sep 19 2014 “New Advances in the Diagnosis of Limbal Stem Cell Deficiency”
The 17th AFRO-Asian Congress of Ophthalmology/17th CCOS
Xi'an, P.R. China
- April 3, 2015 “New Parameters to Classify Limbal Stem Cell Deficiency”
The 17th Chinese Ophthalmology Congress
GuangZhou, China
- Jun 19, 2015 “What We Don't Know about Limbal Stem cell Deficiency”
Bench to Bed Research Symposium
Gavin Herbert Eye Institute, University of California, Irvine
Irvine, CA
- Aug 13, 2015 “New Approaches to Bioengineer Limbal Stem Cell for Transplantation”
The Aniridia Foundation International “Make a Miracle” conference
Vancouver, BC, Canada
- Aug 14, 2015 “Treatment Options for Aniridia Keratopathy”
The Aniridia Foundation International “Make a Miracle” conference
Vancouver, BC, Canada
- Oct 16 2015 “Regulation of Human Limbal Stem Cells via Wnt Signaling Pathway”
The 29th Boston Biennial Cornea Conference
Boston, MA
- Mar 6 2016 “Outcome of DMEK in Patients with Prior Glaucoma Surgery”
6th Fuchs Symposium
Baltimore, MD
- May 2 2016 “Limbal Stem Cell Therapy: Myth or Truth”
Minisymposium, ARVO 2016 annual meeting
Seattle, WA
- May 6 2016 “Complications of Cosmetic Eye-whitening Procedures”
Cornea Day, ASCRS 2016
New Orleans, LA
- Jun 18 2016 “Standardized Surgical Techniques to Perform Successful DMEK”
Tianjin International Ophthalmology Forum 2016
Tianjin, P.R. China
- Sep 9 2016 “Limbal Stem Cell Deficiency: Where We Are Now”
Keynote Lecture
The 8th International Conference on the Tear Film & Ocular Surface (TFOS)
Montpellier, France
- Sep 9 2016 “Standardization of limbal stem cell culture for transplantation”
2016 EuroCornea
Copenhagen, Denmark
- Sep 26 2016 “New Insight into the Diagnosis of Limbal Stem Cell Deficiency”

- XXI Biennial Meeting, International Society for Eye Research
Tokyo, Japan
- Oct 15 2016 “How Do I Know If This is Stem Cell Deficiency?”
Cornea Day, 2016 AAO annual meeting
Chicago, IL
- Mar 2 2017 “How to Diagnose Limbal Stem Cell Deficiency”
2017 Asian Pacific Association of Ophthalmology
Singapore
- Mar 3 2017 “Limbal Stem Cell Therapy”
2017 Asian Pacific Association of Ophthalmology
Singapore
- May 18 2017 “New Insights into Imaging the Human Cornea”
Congress of the Chinese Cornea Society
Shanghai, P. R. China
- May 25 2017 “Limbal Stem Cells, in Sickness and in Health”
Visiting Professor Lecture, Massachusetts Eye and Ear Infirmary
Boston, MA
- Jun 9 2017 “Advances in the Diagnosis and Treatment of Limbal Stem Cell Deficiency”
Stein Eye Institute 50th Celebration
Los Angeles, CA
- Aug 11 2017 “Pitfalls and Pearls from the First 10 years of Practice”
2017 Summer Symposium, Women in Ophthalmology
San Diego, CA
- Nov 8 2017 “Ocular Surface Squamous Neoplasia: INF α 2b or Mitomycin C”
2018 Asian Pacific Association of Ophthalmology
Hong Kong
- Feb 22 2018 “Regulation of Limbal Stem Cells”
2018 Gordon Conference on Cornea and Ocular Surface Biology and Pathology
Ventura, CA

COURSE INSTRUCTION, WORKSHOPS AND SYMPOSIA

- 2005 “Intravitreal Methotrexate, Effective and Safe?”
Department of Ophthalmology Alumni Research Day
Chicago, Illinois
- 2010 “Selective Keratoplasty, the Future of Corneal Transplantation?”
Speaker, Cornea and Retina Symposium.
Southern California College of Optometry.
Los Angeles, California.
- 2010 “DALK and DSEK, Patient Selection and Surgical Techniques.”
Instructor, Breakfast with the Experts.
America Academy of Ophthalmology 2010 Annual Meeting.
Chicago, Illinois

- 2011 “Stem Cell and Regenerative Medicine”
Moderator, Cornea Paper Section
ARVO 2011 Annual Meeting
Fort Lauderdale, Florida
- 2011 “DALK and DSEK, Patient Selection and Surgical Techniques.”
Moderator, Breakfast with the Experts.
America Academy of Ophthalmology 2011 Annual Meeting
Orlando, Florida
- 2012 “DSEK Indications and Patients Selections”
Course Instructor
The 27th Asian Pacific Academy of Ophthalmology Congress.
Busan, South Korea
- 2012 “Boston Type I Keratoprosthesis: Patient Selection”
Course Instructor
The 27th Asian Pacific Academy of Ophthalmology Congress
Busan, South Korea
- 2012 Challenging Cornea Cases
Chair, Case Presentation
The 27th Asian Pacific Academy of Ophthalmology Congress
Busan, South Korea
- 2012 “Cornea Stem Cell I”
Chair, Cornea Paper Section
ARVO 2012 Annual Meeting
Fort Lauderdale, Florida
- 2012 “New Insights on Limbal Stem Cell Regulation and Ex Vivo Expansion for
Transplantation”
Organizer and Moderator, Special Interest Group (SIG)
ARVO 2012 Annual Meeting
Fort Lauderdale, Florida
- 2012 “Dos and Don'ts in Descemet-Stripping Endothelial Keratoplasty and Deep Anterior
Lamellar Keratoplasty”
Moderator, Breakfast with the Experts
AAO 2012 Annual Meeting
Chicago, Illinois
- 2012 “Basic Techniques of DSEK and DALK”
Course Instructor and training surgeon
Ho Chi Minh City Eye Hospital
Ho Chi Minh City, Vietnam
- 2013 “Stroma Keratocytes, Development and Dystrophies”
Moderator, Paper Section
ARVO 2013 Annual Meeting
Seattle, Washington
- 2014 “Somatic and Pluripotent Stem Cells for Cornea Regeneration”

- Session Organizer
XXI Biennial Meeting, International Society for Eye Research
San Francisco, CA
- 2014 “Cornea and External Diseases Original Papers”
Session Panelist
2014 AAO meeting
Chicago, IL
- 2015 “Eye Banking and Corneal Dystrophies Original Papers”
Session Panelist
World Cornea Congress VII
San Diego, CA
- 2015 “DSAEK in Challenging Cases”
Course Instructor
2015 AAO meeting
Las Vegas, NV
- 2015 “Gearing Up for Descemet Membrane Endothelial Keratoplasty: Pearls to Shorten the Learning Curve”
Course Instructor
2015 AAO meeting
Las Vegas, NV
- 2016 Establishment of Tissue Boundaries: Implications for Cornea and Conjunctiva
Session Moderator
Gordon Conference, Biology and Pathobiology of Cornea
Ventura, CA
- 2016 “Cornea and External Diseases”
Original Paper Part II, Session Panelist,
2016 American Academy of Ophthalmology Annual Meeting,
Chicago, IL
- 2016 “Gearing Up for Descemet Membrane Endothelial Keratoplasty: Pearls to Shorten the Learning Curve”,
Course Instructor
2016 American Academy of Ophthalmology Annual Meeting
Chicago, IL
- 2017 “DMEK: Patient Selection, Surgical Techniques and Management of Complications”
Course Faculty
Ramathibodi hospital, Bangkok, Thailand
- 2017 “Gearing Up for Descemet Membrane Endothelial Keratoplasty: Pearls to Shorten the Learning Curve”,
Course Instructor
2017 American Academy of Ophthalmology Annual Meeting

PUBLICATIONS/BIBLIOGRAPHY:

Original Research Papers – Peer Reviewed

1. Muller, W.A., Weigl, S.A., **Deng X.**, Phillips, D.M. PECAM-1 is Required for Transendothelial Migration of Leukocytes. *J of Exp Med.* 1993 Aug 1;178(2):449-60
2. Bogen, S., Pak J., Garifallou, M., **Deng X.**, Muller, W.A. Monoclonal Antibody To Murine PECAM-1 (CD31) Blocks Acute Inflammation in vivo. *J of Exp Med.* 1994 Mar 1;179(3):1059-64
3. **Deng, S.**, Panahian, N., James, H., Gelbard, H.A., Federoff, H.J., Dewhurst, S., Epstein, L.G. Luciferase: a Sensitive And Quantitative Probe For Blood-Brain Barrier Disruption. *J of Neurosci Methods.* 1998; 83(2):159-64
4. **Deng, S.**, Hanson, E., Sanz, I. *In vivo* Cell Penetration and Intracellular Transport of Anti-Smith and Anti-La Monoclonal Autoantibodies. *Int Immunol*, 2000; 12 (4): 415
5. **Deng, S.**, Pendland, S., Gupta, S., Fiscella, R., Edward, D., Tessler, H., Goldstein, D., Methotrexate Reduces The Complications Of Endophthalmitis Resulting From Intravitreal Injection Compared With Dexamethasone In A Rabbit Model, *IOVS*, 2006 Apr;47(4):1516-21
6. Ding, Z., Dong, J., Liu, J., **Deng, S.**, Preferential Gene Expression in the Limbus of the Vervet Monkey, *Mol Vis.* 2008; 14:2031-41
7. Asbell, P., Colby, K., **Deng, S.**, McDonnell, P., Meisler, D.M., Raizman, M.B., Sheppard, J.D. Jr, Sahm, D.F, Ocular TRUST: Nationwide Antimicrobial Susceptibility Patterns in Ocular Isolates, *Am J Ophthalmol.* 2008 Jun;145(6):951-8
8. **Deng, S.**, Kamal, K.M., Hollander, D., The use of Voriconazole in the Management of Post-penetrating Keratoplasty Paecilomyces keratitis. *J Ocul Pharmacol Ther.* 2009 Apr;25(2):175-7
9. Tsui, I., Uslan, D., Hubschman, J., **Deng, S.**, *Nocardia farcinica* Infection of a Baerveldt Implant in a Patient with a Boston Type I Keratoprosthesis, *J Glaucoma*, 2010 Jun-Jul 19(5): 339-40
10. Hong, J., Zheng, T., Xu, J., **Deng, S.**, Chen, L., Sun, X, Le, Q., Pan, Z., Assessment of Limbus and Central Cornea in Patients with Keratolimbic Allograft Transplantation Using *In Vivo* Laser Scanning Confocal Microscopy: an Observational Study, *Graefes Arch Clin Exp Ophthalmol.* 2011 May: 249(5):701-8
11. Nakatsu, M., Ding, Z., Ng, M., Truong, T., **Deng, S.**, Wnt/ β -catenin Signaling Regulates Human Corneal Epithelial Progenitor Cell Proliferation, *IOVS*, 2011 Jul 1;52(7):4734-41
12. Zarei-Ghanavati, S., Baghdasaryan, E., Ramirez-Miranda, A., Nguyen, M., Yu, F., **Deng, S.**, Elevated Intraocular Pressure is a Common Complication during Active Microbial Keratitis, *Am J. Ophthalmol.* 2011 Oct;152(4):575-581
13. Truong, T., Huynh, K., Nakatsu, M, **Deng, S.**, SSEA-4 is a Potential Negative Marker for the Enrichment of Human Cornea Epithelial Stem/Progenitor Cells, *IOVS*, 2011 Aug 11;52(9):6315-20
14. Ramirez-Miranda, A., Zarei-Ghanavati, S., Nakatsu, M., Nguyen, C., **Deng, S.**, Keratin 13 is a More Specific Marker of Human Conjunctival Epithelium Than Keratin 19, *Mol Vis.* 2011;17:1652-61.

15. Zarei-Ghanavati, S., Ramirez-Miranda, A., **Deng, S.**, Limbal Lacunae, A New Limbal Structure Detected by *in vivo* Confocal Microscopy. *Ophthalmic Surg Lasers Imaging*, 2011 Dec 8;42:e129-31
16. Wiaux, C., Baghdasaryan, E., Lee, O., Bourges, J., **Deng, S.**, Yu, F., Aldave, A., Outcomes After Descemet Stripping Endothelial Keratoplasty in Glaucoma Patients with Previous Trabeculectomy and Tube Shunt Implantation, *Cornea*, 2011 Dec;30(12):1304-11
17. Wang, L., **Deng, S.**, Lu, L., Role of CTCF in EGF-induced Migration of Immortalized Human Corneal Epithelial Cells, *IOVS*, 2012 Feb 23;53(2):946-51
18. **Deng, S.**, Sejpal, K., Tang, Q., Lee, O., Aldave, A., Yu, F., Characterization of Limbal Stem Cell Deficiency by *in vivo* Laser Scanning Confocal Microscopy: a Microstructural Approach, *Arch Ophthalmol*. 2012 Apr;130(4):440-5.
19. Kurbanyan, K., Sejpal, K., Aldave, A., **Deng S.**, *In Vivo* Confocal Microscopic Findings in Lisch Corneal Dystrophy, *Cornea*. 2012 Apr;31(4):437-41
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