

Mark I. Rosenblatt, MD, PhD, MBA, MHA

University of Illinois Chicago
University of Illinois College of Medicine
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EDUCATION

- 9/2015 – 5/2017 **University of Illinois Chicago School of Public Health
Clinical Executive MHA Program**
MHA, granted 2019
1603 West Taylor Street
Chicago, IL 60612
- 8/2012 – 8/2014 **New York University Stern School of Business
Executive MBA Program**
MBA, concentrations in finance, management, and entrepreneurship
44 West 4th Street
New York, NY 10012
- 5/1991 – 5/1999 **University of Miami School of Medicine
Combined MD/PhD Program**
MD, Alpha Omega Alpha
PhD, Biochemistry, Cell, and Molecular Biology
1600 NW 10th Avenue
Miami, FL 33136
- 9/1989 – 5/1991 **University of Miami
Honors Program in Medical Education (Six-year BS/MD program)**
BS Biology, granted May 1992, *cum laude*
1600 NW 10th Avenue
Miami, FL 33136

ACADEMIC POSITIONS

- 2022- **Associate
Vice
Chancellor
Physician
Affairs** University of Illinois Chicago
1853 West Polk Street, MC 784
Chicago, IL 60612
- 2019- **Executive
Dean** University of Illinois College of Medicine
University of Illinois Chicago
1853 West Polk Street, MC 784
Chicago, IL 60612

2019-2022	Director	Medical Scientist Training Program University of Illinois College of Medicine University of Illinois Chicago 1853 West Polk Street, MC 784 Chicago, IL 60612
2017 –	Department Affiliate	Department of Bioengineering Colleges of Engineering and Medicine University of Illinois Chicago 851 South Morgan Street, MC 063 Chicago, IL 60607
2016 -	Graduate Faculty	Neuroscience Program Graduate College University of Illinois Chicago 1853 West Polk Street, MC 784 Chicago, IL 60612
2016 –	Professor	Department of Pharmacology University of Illinois College of Medicine University of Illinois Chicago 835 South Wolcott Avenue, MC 868 Chicago, IL 60612
2015 –	Chair	Illinois Lions/Charles I. Young Chair Department of Ophthalmology & Visual Sciences Illinois Eye and Ear Infirmary University of Illinois Chicago 1855 West Taylor Street, MC648 Chicago, IL 60612
2014 –	Professor	Department of Ophthalmology & Visual Sciences Illinois Eye and Ear Infirmary University of Illinois Chicago 1855 West Taylor Street, MC 648 Chicago, IL 60612
2014 –2019	Associate Director	Medical Scientist Training Program University of Illinois College of Medicine University of Illinois Chicago 1853 West Polk Street, MC 784 Chicago, IL 60612
2014 –	Director	Corneal Regenerative Medicine Laboratory University of Illinois College of Medicine University of Illinois Chicago 1855 West Taylor Street, MC 648 Chicago, IL 60612
2014 – 2019	Head	Department of Ophthalmology & Visual Sciences Illinois Eye and Ear Infirmary

University of Illinois Chicago
1855 West Taylor Street, MC 648
Chicago, IL 60612

- 2012 – 2014 **Vice Chair** Department of Ophthalmology
Weill Cornell Medical College
Cornell University
1305 York Avenue
New York, NY 10021
- 2010 – 2014 **Director** Margaret M. Dyson Vision Research Institute
Weill Cornell Medical College
Cornell University
1305 York Avenue
New York, NY 10021
- 2010 – 2014 **Associate Professor** Department of Ophthalmology
Weill Cornell Medical College
Cornell University
1305 York Avenue
New York, NY 10021
- 2008 – 2010 **Assistant Professor** Department of Ophthalmology
Weill Cornell Medical College
Cornell University
1305 York Avenue
New York, NY 10021
- 2005 – 2008 **Assistant Professor** Department of Ophthalmology & Vision Science
University of California, Davis
1 Shields Avenue
Davis, CA 95616
- 2000 – 2005 **Clinical Fellow** Department of Ophthalmology
Massachusetts Eye & Ear Infirmary
Harvard Medical School
243 Charles Street
Boston, MA 02114

POST-DOCTORAL TRAINING

- 2003 – 2005 **Clinical Fellow** Cornea Service
Department of Ophthalmology
Massachusetts Eye & Ear Infirmary
Harvard Medical School
243 Charles Street
Boston, MA 02114

2001 – 2005	Research Fellow	Schepens Eye Research Institute Harvard Medical School 20 Stanford Street Boston, MA 02114
2000 – 2003	Resident	Department of Ophthalmology Massachusetts Eye & Ear Infirmary Harvard Medical School 243 Charles Street Boston, MA 02114
1999 – 2000	Intern	Department of Internal Medicine Mount Sinai Medical Center 4300 Alton Road Miami Beach, FL 33140

HOSPITAL & INSTITUTIONAL POSITIONS

2014-2019	Chief of Service	Ophthalmology University of Illinois Hospital 1740 West Taylor Street Chicago, IL 60612
2012 – 2014	Medical Director	Eye Bank for Sight Restoration 120 Wall Street New York, NY 10005
2010 – 2014	Associate Attending	NY Presbyterian Hospital Weill Cornell Ophthalmology Assoc. 1305 York Avenue New York, NY 10021
2008 – 2010	Assistant Attending	NY Presbyterian Hospital Weill Cornell Ophthalmology Assoc. 1305 York Avenue New York, NY 10021
2005 – 2008	Attending Physician	University of California, Davis Medical Center 4860 Y Street, Suite 2400 Sacramento, CA 95817
2000 – 2005	Physician In-training	Massachusetts Eye & Ear Infirmary 243 Charles Street Boston, MA 02114
1999 – 2000	Physician In-training	Mount Sinai Medical Center 4300 Alton Road Miami Beach, FL 33140

LICENSURE AND CERTIFICATION

Licensure

- 2014 – **Illinois**
- 2008 – 2015 **New York**
- 2005 – 2008 **California**

Certification

- 2005 – **American Board of Ophthalmology**
- 2012 – **Intralase Procter**
Advanced Medical Optics
- 2022 – **Fellow**
Association for Research in Vision and Ophthalmology

PROFESSIONAL MEMBERSHIPS

- 2018 – Pine Ridge Eye Study Society
- 2018 – International Agency for the Prevention of Blindness
- 2014 – Chicago Ophthalmological Society
- 2014 – Illinois Society for the Prevention of Blindness
- 2014 – Illinois Society of Eye Physicians & Surgeons
- 2014 – Cornea Society
- 2013 – 2015 Eye Bank Association of America
- 2013 – American Eye Study Club
- 2011 – 2014 New York Clinical Society
- 2011 – 2019 Association of University Professors of Ophthalmology
- 2009 – 2016 International Society for Eye Research
- 2010 – 2015 Ophthalmic Laser and Surgical Society
- 2005 – 2016 Society for Neuroscience
- 2005 – 2018 Tear Film and Ocular Surface Society

- 2002 –2018 American Society for Cataract and Refractive Surgery
- 2001 – American Academy of Ophthalmology
- 2000 –2005 Max Fine Cornea Society
- 1995 – Association for Research in Vision and Ophthalmology

HONORS AND AWARDS

- 2012 – 2014 NYU Stern Executive MBA Scholarship
- 2009 – 2013 Research to Prevent Blindness Career Development Award
- 2006 – 2009 NIH Loan Repayment Program Award
- 2005 AUPO/RPB Resident/Fellow Research Award
- 2003 – 2005 Joint Clinical Research Center Fellowship.
Massachusetts Eye and Ear Infirmary and Schepens Eye Research Institute
- 2004 Intralase Fellow/Resident Research Award
- 2002 National Eye Institute Travel Award
- 1999 Alpha Omega Alpha National Medical Honor Society
- 1997 Margaret Whelan Prize
- 1994 – 1997 American Heart Association Pre-Doctoral Fellow
- 1996 Dean of the Graduate School Award for Research and Creativity
University of Miami
- 1996 Medical Faculty Association Outstanding Graduate Student
University of Miami
- 1996 John. M. Marsh Memorial Research Prize
Department of Biochemistry, University of Miami
- 1996 Eastern Student Research Forum First Prize Poster Presentation
- 1996 Omicron Delta Kappa Honor Society
- 1991 Trustee Scholarship
University of Miami School of Medicine

JOURNAL REVIEW AND EDITORIAL RESPONSIBILITIES

Clinical & Experimental Ophthalmology, Cornea Section Editor

Investigative Ophthalmology and Vision Science, ad hoc reviewer, Editorial Board Member

Nature Biotechnology, ad hoc reviewer

PLoS One, ad hoc reviewer

Cornea, ad hoc reviewer

American Journal of Ophthalmology, ad hoc reviewer

British Journal of Ophthalmology, ad hoc reviewer

Acta Ophthalmologica, ad hoc reviewer

ACADEMIC SERVICE

Departmental

- 2014 –2019 Illinois Eye Review Organizing Committee, Co-Chair
Department of Ophthalmology and Visual Sciences, University of Illinois at Chicago
- 2014 –2019 Clinical Operations Committee, Chair
Department of Ophthalmology and Visual Sciences, University of Illinois at Chicago
- 2014–2019 Clinical Finance Committee, Chair
Department of Ophthalmology and Visual Sciences, University of Illinois at Chicago
- 2014 –2019 Service Directors Committee, Chair
Department of Ophthalmology and Visual Sciences, University of Illinois at Chicago
- 2014 –2019 Alumni Committee, Member
Department of Ophthalmology and Visual Sciences, University of Illinois at Chicago
- 2014 –2019 Cornea Fellowship Selection Committee, Member
Department of Ophthalmology and Visual Sciences, University of Illinois at Chicago
- 2014 –2019 Ophthalmology Resident Selection Committee, Member
Department of Ophthalmology and Visual Sciences, University of Illinois at Chicago
- 2014 –2019 Resident Education Committee, Member
Department of Ophthalmology and Visual Sciences, University of Illinois at Chicago
- 2013 – 2014 Clinical Operations Committee, Chair
Department of Ophthalmology, Weill Cornell Medical College

- 2013 – 2014 Clinical Finance Committee, Chair
Department of Ophthalmology, Weill Cornell Medical College
- 2012 – 2014 Service Directors Committee, Chair
Department of Ophthalmology, Weill Cornell Medical College
- 2010 – 2011 Interim Report Committee, Member
Department of Ophthalmology, Weill Cornell Medical College
- 2010 – 2014 Alumni Committee, Member
Department of Ophthalmology, Weill Cornell Medical College
- 2009 – 2014 Tenure and Promotions Committee, Member
Department of Ophthalmology, Weill Cornell Medical College
- 2008 – 2014 Cornea Fellowship Selection Committee, Member
Department of Ophthalmology, Weill Cornell Medical College
- 2009 – 2012 Ophthalmology Resident Selection Committee, Member
Department of Ophthalmology, Weill Cornell Medical College
- 2005 – 2008 Website Design and Implementation Committee, Member
Department of Ophthalmology and Vision Science, University of California, Davis
- 2005 – 2008 Ophthalmology Resident Selection Committee, Member
Department of Ophthalmology and Vision Science, University of California, Davis
- 2005 – 2008 Cornea Fellow Selection Committee, Member
Department of Ophthalmology and Vision Science, University of California, Davis

Institutional

- 2019- WWT Board of Directors Committee, Chair
University of Illinois at Chicago
- 2019- Medical Service Plan Board of Directors Committee, Chair
University of Illinois at Chicago
- 2022- Funds Flow Redesign Committee, Executive Sponsor
UI Health
- 2021-2022 UIC Budget Model Design Task Force
University of Illinois Chicago
- 2021 UIC Strategic Planning Committee, National and International Impact Committee
Member
- 2021 Health System Quality and Safety Transformation Executive Committee, Member
UI Health

2019- Integrated Information Infrastructure Executive Committee, Member
UI Health

2020-2021 Nursing Dean Search Committee, Co-Chair
UI Health

2018 Delegation to Taiwan
University of Illinois System

2018 –2019 Ophthalmic Research in Bioengineering, Innovation, and Technology Lab, Co-Director
ORBITLab, University of Illinois at Chicago

2018 –2022 University of Illinois / Discovery Partners Institute Clinical Health and Wellness Working
Group, Chair
University of Illinois at Chicago

2018 –2019 University of Illinois / Discovery Partners Institute Seed Program Committee, Member
University of Illinois at Chicago

2018 – Lung Biology and Pathophysiology Training Program (T32), Faculty Member
University of Illinois at Chicago

2018 Associate Vice Chancellor for Medical Advancement Search Committee, Member
University of Illinois at Chicago

2018 Department of Family Medicine Faculty Search Committee, Interviewer
University of Illinois at Chicago

2018 UIPG Chief Business Officer Search Committee, Interviewer
University of Illinois at Chicago

2018 – University of Illinois Delegation to Monterrey, Delegate
University of Illinois at Chicago

2017 –2019 WWT Board of Directors Committee, Member
University of Illinois at Chicago

2017-2019 Medical Service Plan Board of Directors Committee, Member
University of Illinois at Chicago

2017 University of Illinois Delegation to Israel, Delegate
University of Illinois at Chicago

2017 3i RFP Selection Committee, Member
University of Illinois at Chicago

2017 UIH CEO Search Committee, Member
University of Illinois Hospital & Clinics

- 2017 Stem Cell and Regenerative Medicine Center Faculty Search Committee, Interviewer
University of Illinois at Chicago
- 2017 ISMS House of Delegates, Reference Committee B Member
Illinois State Medical Society
- 2017 Director for Center of Global Health Search Committee, Member
University of Illinois at Chicago
- 2017 Pediatrics Department Head Search Committee, Interviewer
University of Illinois at Chicago
- 2016 Commercialization Strategy Committee, Member
University of Illinois at Chicago
- 2016 University of Illinois Delegation to Azerbaijan, Delegate
University of Illinois at Chicago
- 2016 Claes Dohman Fellowship Award Committee, Member
Massachusetts Eye and Ear
- 2014 Medical Science Training Program Admissions Committee, Member
University of Illinois at Chicago
- 2014 Medical Staff Executive Committee, Member
University of Illinois at Chicago
- 2013 – 2014 Curriculum Reform - Areas of Concentration Committee, Member
Weill Cornell Medical College
- 2013 – 2014 Tri-Institutional Training Program in Vision Research, Steering Committee Member
Weill Cornell Medical College/Rockefeller University/Memorial Sloane-Kettering
- 2009 – 2014 Tri-Institutional MD/PhD Program Admissions, Interviewer
Weill Cornell Medical College
- 2005 – 2008 Medical Student Pre-Doctoral Fellowship Award Committee, Member
University of California, Davis
- 2005 – 2008 Medical Scholars Committee, Member
University of California, Davis

National & International

- 2017 – 2018 Grants Review Committee, Member
Research to Prevent Blindness
- 2017 – Board of Directors, Member
Illinois Society for the Prevention of Blindness

- 2017 – Cultivated Autologous Limbal Epithelial Cells, Data and Safety Monitoring Committee, Member
National Eye Institute/Jaeb Center for Health Research
- 2017–2022 NEI Special Emphasis Panel, Study Section Member
Center for Scientific Review/National Eye
- 2016– 2017 International Dry Eye Workshop (DEWS), Neurobiology Sub-committee, Member
Tear Film and Ocular Surface Society
- 2015 NEI Review of Clinical Research Grants, Study Section Member
Center for Scientific Review/National Eye Institute
- 2014 – 2016 Planning Committee – New Technology, Member
World Ophthalmology Congress, Guadalajara, Mexico
- 2014 VR4 Study Section DMRDP Grant Program Review, Member
Department of Defense
- 2014 Transformative Research Award (TRA), Mail Reviewer
National Eye Institute
- 2014 Self-Assessment Committee, Member and Item Writer
American Academy of Ophthalmology
- 2013 Resident Education Task Force, Member
Association of University Professors of Ophthalmology
- 2012 – 2014 Research Director’s Advocacy Council, Member
Association of University Professors of Ophthalmology
- 2009 – 2014 Ophthalmic Technology Assessment Committee, Committee Member and Contributor
American Academy of Ophthalmology
- 2012 – 2013 Contact Lens Discomfort Workshop, Neurobiology Sub-committee, Co-Chair
Tear Film and Ocular Surface Society
- 2009 – 2013 Scientific Advisory Board, Member
Tear Film and Ocular Surface Society
- 2007 – 2012 O.N.E. Cornea and External Disease, Committee Member and Contributor
American Academy of Ophthalmology
- 2010 – 2011 NEI Strategic Planning Committee – Cornea, Member
National Institutes of Health
- 2010 NEI Workshop on Ocular Pain and Sensitivity, Invited Panelist
National Institutes of Health

RESEARCH

Research Activities

I. Primary Projects

A. **Mechanisms of Corneal Nerve Repair.** The cornea is the most densely innervated sensory tissue in the body. Functional corneal nerves are essential to maintaining proper corneal homeostasis. Disruption of these nerves, as can occur in disease or after trauma (i.e. LASIK), can lead to a spectrum of epithelial dysfunction ranging from mild dry eye syndrome corneal melting and neurotrophic ulceration.

B. **Investigation of Corneal Epithelial Stem Cell Determinants.** Corneal epithelial stem cells located at the limbus provide a renewable source of cells to maintain the stratified corneal epithelium. The critical markers and more importantly the molecular determinants of corneal epithelial “stemness” have not been elucidated. Using elegant animal models created by Dr. Elaine Fuchs at Rockefeller University to study skin epithelium, we are identifying novel molecular mechanisms of corneal epithelial “stemness”. These findings will allow for the enrichment of cells for the treatment of limbal stem cell deficiency, a potentially blinding condition.

C. **Bioengineered Silk Films for Ocular Surface Reconstruction.** We are studying thin silk fibroin films for their potential use in the reconstruction of the ocular surface. These biocompatible films with tunable properties are transparent and may serve as an improved scaffold (as compared with the current standard of care, amniotic membrane) for use on corneal wounds or for the transplantation of cultivated epithelial sheets (see b. above). We have used nanopatterning to alter the surface topography of the films to alter cell behavior and guide cell migration. Collaborator: David Kaplan, PhD, Tufts University.

D. **Corneal Gene Therapy.** We are developing lentiviral vectors that can efficiently transfer heterologous genes to corneal epithelial cells in vitro. The transfer of anti-angiogenic, pro-neurogenic, or anti-inflammatory genes could be used to improve corneal health or the success of corneal transplants.

II. Collaborative Projects

A. **Magnetic Tarsorrhaphy and Eyelid Re-animation.** Collaborators: Gary Lelli, MD and David Lipson, PhD, Department of Biomedical Engineering, Cornell University, Ithaca, NY

B. **Characterization of Novel Neurotensin Analgesics.** Collaborators: Gavriel Pasternak, MD, PhD, MSKCC and Sarentis Therapeutics.

C. **Use of silk solution in the treatment of dry eye syndrome.** Collaborators: SilkTears, Inc.

D. **Molecular Diagnosis of Bacterial Keratitis.** Collaborators: Lauro Oliveira, MD, UNIFESP, Sao Paulo, Brazil and David Ecker, PhD ISIS Pharmaceuticals, San Diego, CA

E. **Ocular miRNA in retinal vascular disease.** Collaborators: John Pena, MD, PhD and Tom Tuschl, Rockefeller University.

Pending Grants

2022 – 2027 **Anatomic, Molecular, and Functional Consequences of Neuroregenerative Therapeutics**

National Eye Institute/NIH
U01
Project Period Total Costs: \$4,018,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator

Active Grants

2011 – 2023 **UIC K12 Independent Clinical Vision Scientist Development Program**

National Eye Institute/NIH
2K12EY021475-06A1
Project Period Total Costs (2018-2023): \$2,452,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator

2007 – 2022 **Medical Scientist Training Program**

NIGMS/NIH
T32GM079086-15
Total Costs (2019-2021): \$2,400,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator

2017 – 2022 **Mechanisms of Corneal Nerve Repair**

National Eye Institute/NIH
R01 EY027912
Total Costs: \$1,600,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator

Completed Grants

1981 – 2020 **Core Grant for Vision Research**

National Eye Institute/NIH
P30 EY001792
Project Period Total Costs (2015-2020): \$3,180,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator

2016 – 2021 **RPB Unrestricted Departmental Grant**

RPB
RPB Unrestricted Grant
Project Period Total Costs: \$690,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator

2015 – 2018 **Molecular and Functional Characterization of the Regenerative Potential of Slow Cycling Corneal Epithelial Cells**

National Eye Institute/NIH
R21 EY025062

Project Period Total Costs: \$439,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator

- 2016 – 2017 **Nanoengineered Silk Biomaterials for Ocular Regenerative Medicine**
Falk Medical Research Trust
Catalyst Research Award
Total Costs: \$485,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator
- 2014 – 2017 **Tissue Engineering Cornea Replacements**
National Eye Institute/NIH
R01 EY020856
Total Costs: \$1,520,000
Principal Investigator: David Kaplan, PhD
Role: Co-Investigator
- 2012 – 2016 **Safety and Efficacy of Bevacizumab in High-Risk Corneal Transplant Survival**
Department of Defense
DM120045
Total Costs: \$570,000 (WCMC site)
Principal Investigator: M. Reza Dana, MD
Role: Site Principal Investigator
- 2010– 2015 **Mechanisms of Corneal Nerve Repair**
National Eye Institute/NIH
R01 EY018594
Total Costs: \$2,100,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator
- 2010 – 2014 **Regenerating Ocular Surface Wounds with Novel Biomaterial**
National Science Foundation
Small Business Innovation Research Program Phase I: 1013484
Total Costs: \$171,072
Small Business Innovation Research Program Phase II: 152561
Total Costs: \$500,000
Principal Investigator: Sarentis Ophthalmic, Inc.
Role: Lead Scientific Investigator
- 2013 – 2014 **Novel Silk Films for Ocular Stem Cell Transplantation and Tissue Engineering**
WCMC Clinical and Translational Science Center
Translational Medicine Seed Grant
Total Costs: \$75,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator
- 2012 – 2014 **Developing microRNA Therapeutics for Diabetic Retinopathy**

WCMC Clinical and Translational Science Center
Translational Medicine Seed Grant
Total Costs: \$90,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator

2008 – 2014 **Investigation of Novel Topical Analgesics**

Sarentis Therapeutics Unrestricted Gift
Total Costs: \$47,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator

2010 – 2013 **Harnessing Keratinocyte Stem Cell Growth for Regenerative Medicine**

NYSTEM Investigator Initiated Research Project
Total Costs: \$1,080,000
Principal Investigator: Elaine Fuchs, PhD
Investigator Initiated Research Project
Role: Co- Investigator

2010 – 2012 **Nano-structured silk biomaterials for ocular surface regenerative medicine.”**

WCMC Clinical and Translational Science Center
Seed Funding Pilot Grant
Total Costs: \$100,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator

2009– 2013 **VEGF-mediated corneal nerve repair**

Research to Prevent Blindness Career Development Award
Total Costs: \$200,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
Role: Principal Investigator

2010 – 2012 **Preventing Vision Loss from Blast Injuries with Regenerative Biomaterial**

DMRDP, Department of Defense
DM090278
Total Costs: \$171,072
Principal Investigator: Sarentis Ophthalmic, Inc.
Role: Lead Scientific Investigator

2009 – 2011 **New biomaterials for ocular surface reconstruction**

NIH/NEI
R21 EY019561
Total Costs: \$462,000
Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA

2008 – 2010 **Translating stem cell self-renewal principles to regenerative medicine**

Tri-Institutional Stem Cell Initiative #2008-017
Total Costs: \$1,272,000
Principal Investigator: Elaine Fuchs, PhD
Role: Co-Investigator

- 2005 – 2010 **Corneal Metalloproteinase-Matrix Interactions**
 National Eye Institute/NIH
 K08 EY01582
 Total Costs: \$899,440
 Principal Investigator: Mark I. Rosenblatt, MD, PhD, MBA
- 2003 – 2005 **Joint Clinical Research Center Fellow**
 Massachusetts Eye and Ear Infirmary/Schepens Eye Research Institute.
- 1994 – 1997 **American Heart Association Pre-Doctoral Fellow**
- 1992 **American Cancer Society Summer Research Fellow**

ENTREPRENEURIAL AND CONSULTING ACTIVITIES

- 2018 **Visstor, Inc.**
 Co-Founder
- 2018 **Vistronics, Inc.**
 Co-Founder
- 2018 **Nektar Therapeutics**
 Scientific Advisory Committee, Member
- 2016 **Roche**
 Scientific Advisory Panel
- 2016 **AbbVie**
 Scientific Advisory Panel
- 2016 **Laurel Therapeutics**
 Scientific Advisory Panel, sponsored research
- 2016 **Novartis International**
 Alcon Dry Eye Advisory Board, Member
- 2013 – 2015 **Primm SRL**
 Scientific Advisor, Medical Consultant
- 2008 – 2014 **SilkTears, Inc.**
 Co-Founder, Board Member, Scientific Advisor
- 2006 – 2015 **Sarentis Ophthalmics, Inc.**
 Scientific Advisor, Medical Consultant
- 2005 – 2014 **Omeros, Inc.**
 Scientific Advisor, Consultant

PATENTS

Provisional

- 2017 **“Keratoprosthesis with flexible component for treatment of corneal blindness”**
62/491,438
- 2017 **“Intraocular display implant for vision restoration”**
62/569,794

Issued

- 2018 **“Peptides for treating cancer”**
Kamarova YA, **Rosenblatt MI**, Malik AB
U.S. Patent Number 10,064,911
- 2018 **“Methods for treating peripheral nerve damage”**
Rosenblatt MI, Guaiquil, VH, Pan, Z, Karagianni N
U.S. Patent Number 9,987,329
- 2017 **“Peptides for inhibiting angiogenesis”**
Kamarova YA, **Rosenblatt MI**, Malik AB
U.S. Patent Number 9,675,660
- 2015 **“Magnetic control of eyelid position”**
Lipson D, Lelli GJ, **Rosenblatt MI**, Rao R, Nissanka N
U.S. Patent Number 9,020,600

TEACHING

Departmental

- 2014 – **Grand Rounds**
Department of Ophthalmology and Visual Sciences, University of Illinois at Chicago
Faculty – 2 Lectures per year
- 2014 – **Resident Teaching, Attending Corneal Surgeon**
Department of Ophthalmology and Visual Sciences, University of Illinois at Chicago
10 hours/wk
- 2008 – 2014 **Advanced Cornea Lecture Series**
Department of Ophthalmology, Weill Cornell Medical College
Faculty – 4 Lectures per year
“Keratoplasty: Indications, techniques and complications”
“Ocular surface tumors”
“Viral conjunctivitis”
“Optics Review”
- 2008 – **Resident Teaching, Attending Corneal Surgeon**

Department of Ophthalmology, Weill Cornell Medical College
10 hours/wk

2008 – **Cornea and Refractive Surgery Fellowship, Preceptor**
Department of Ophthalmology, Weill Cornell Medical College
16 hours/wk

2005 – 2008 **Resident Teaching, Attending Corneal Surgeon**
Department of Ophthalmology and Vision Science, UC Davis
10 hours/wk

2005 – 2008 **Cornea and External Disease Fellowship, Preceptor**
Department of Ophthalmology and Vision Science, UC Davis
16 hours/wk

2005 – 2008 **Doctoring Clinical Rotation: Ophthalmology.**
Department of Ophthalmology and Vision Science, UC Davis

Institutional

2016 – 2022 **Career Development Lecture**
UI COM Innovation Medicine Program

2016 **Interdisciplinary Product Design Course – Ophthalmic Innovations**
UIC Innovation Center
Course Co-Director

2015 **Beckman Institute for Advanced Science and Technology**
University of Illinois Urbana-Champaign
“Corneal Tissue Engineering”

2013 – 2014 **Translational Vision Science Course, Co-Director**
Tri-Institutional Training Program in Vision Research

2011 – 2013 **Clinical Minirotation for Vision Scientists, Co-Director and Lecturer**
Tri-Institutional Training Program in Vision Research
“Keratoplasty and Corneal Tissue Engineering”

2009 – 2012 **Cell Physiology Course**
PBSB Program, WCMC
“Adrenergic Signaling, PKA, PKC, cAMP”

2009 – 2012 **Summer Clinical Immersion Course**
Department of Biomedical Engineering, Cornell University, Ithaca, NY

2009 – 2010 **Career Pathways Course, Tri-Institutional MD/PhD Program**
Weill Cornell Medical College

National & International

2015 – 2021 **Illinois Eye Review, Chicago, IL**

2018 “Cornea Congenital Anomalies & Dystrophies”
“Ocular Surface Neoplasia's & Trauma”

2017 “Complications of Cataract Surgery”

2016 “Complications of Cataract Surgery”

2015 “Cornea Congenital Anomalies & Dystrophies”
“Cases: Cornea”

2013 – 2018 **Association of University Professors of Ophthalmology Annual Meeting**

2018 “Becoming an Ophthalmology Chair”

2014 “Key Philanthropy Skills for Researchers, Organizer and Moderator”

2014 Research Symposium: Building and Sustaining Research in Departments of
Ophthalmology, Lecturer
“Space and Resource Requirements”

2013 Non-Traditional Resources of Funding Workshop, Organizer and Lecturer
“My First Start-up”

2006 – 2007 **Bay Area Ophthalmology Course, Palo Alto, CA**

2007 “Corneal Wound Healing”

2006 “Corneal Wound Healing”

2004 – 2021 **Lancaster Course in Ophthalmology, Waterville, Maine**

2021 Course Director– 4 Lectures
“Acute and Chronic Infectious Conjunctivitis”
“Bacterial Keratitis”
“Fungal and Acanthamoeba Keratitis”
“Viral Keratitis”

2020 Course Director– 4 Lectures
“Acute and Chronic Infectious Conjunctivitis”
“Bacterial Keratitis”
“Fungal and Acanthamoeba Keratitis”
“Viral Keratitis”

2019 Course Director– 4 Lectures
“Acute and Chronic Infectious Conjunctivitis”
“Bacterial Keratitis”
“Fungal and Acanthamoeba Keratitis”
“Viral Keratitis”

- 2018 Course Director– 4 Lectures
 “Acute and Chronic Infectious Conjunctivitis”
 “Bacterial Keratitis”
 “Fungal and Acanthamoeba Keratitis”
 “Viral Keratitis”
- 2016 Course Faculty– 5 Lectures
 “ Corneal Anatomy and Physiology”
 “Acute and Chronic Infectious Conjunctivitis”
 “Bacterial Keratitis”
 “Fungal and Acanthamoeba Keratitis”
 “Viral Keratitis”
- 2015 Course Faculty– 5 Lectures
 “ Corneal Anatomy and Physiology”
 “Acute and Chronic Infectious Conjunctivitis”
 “Bacterial Keratitis”
 “Fungal and Acanthamoeba Keratitis”
 “Viral Keratitis”
- 2014 Course Faculty– 5 Lectures
 “ Corneal Anatomy and Physiology”
 “Acute and Chronic Infectious Conjunctivitis”
 “Bacterial Keratitis”
 “Fungal and Acanthamoeba Keratitis”
 “Viral Keratitis”
- 2012 Course Faculty– 4 Lectures
 “The Cornea and Metabolic Disease”
 “Ocular Surface Tumors”
 “Anterior Segment Trauma”
 “Anterior Segment Reconstruction”
- 2004 Invited Lecture
 “Penetrating Keratoplasty: Indications, Techniques, and Complications”
- 2008 – 2012 **Ophthalmology Seminar, Open Medical Institute, Austrian-American Foundation, Salzburg, Austria**

MENTORING

Research

2022	Ariadna Tohaces, PhD	Postdoctoral Researcher
2020-	Eitan Katz, MD	Medical Student Researcher
2020-	Cissy Zhou	Undergraduate Student Researcher

2017 –	Christopher Janson, MD	Assistant Professor, Department of Neurology
2016 –2021	Michael Sun	MSTP Student
2016 –2021	Evguenia Ivakhnitskaia	MSTP Student
2016 –	Raman Michael	Medical Student
2016 – 2018	Stephanie Cox , OD	Clinical Assistant Professor, UAB
2014 –	Joy Sarkar, PhD	Research Assistant, Professor of Ophthalmology
2014 –	Jack Qiang Zhou, MD, PhD	Researcher
2012 – 2014	Brigette Cole	Graduate Student
2011 –	Victor Guaiquil, PhD	Instructor in Ophthalmology
2011 – 2015	Waleed Abdel-Naby	Graduate Student
2009 – 2018	Rachel Sartaj, PhD	Postdoctoral Fellow
2008 – 2014	Aihong Liu, MD	Research Associate
2009 – 2014	Natalia Karagianni, MD	Postdoctoral Fellow
2010 – 2013	Zan Pan, MD, PhD	Postdoctoral Fellow
2008 – 2013	Brian Lawrence, PhD	Graduate Student/Postdoctoral Fellow
2011 – 2012	Kevin Kang	Medical Student (HHMI Scholar)
2011 – 2012	Ruik Chee, MD	Postdoctoral Fellow
2009 – 2011	Dimitra Skondra, MD	Clinical Associate
2009 – 2011	Shima Fukuoka, MD	Postdoctoral Fellow
2009 – 2010	Zhi Pan, PhD	Postdoctoral Fellow
2009 – 2010	Claire Fraser, MD, PhD	Clinical Associate
2008 – 2009	Jing Yang, MD	Postdoctoral Associate
2008 – 2009	Alejandro Navas, MD	Postdoctoral Associate
2007 – 2008	Enrique Graue, MD	Research Fellow
2006 – 2008	Min Zhang, MD, PhD	Research Fellow
2006 – 2008	Charles Kim, MD	Medical Student (HHMI Scholar)
2006 – 2008	Shahed Ghoghawala	Medical Student
2006 – 2008	Krisztina Matis	Research Associate
2006 – 2007	David Eliason, MD	Resident
2005 – 2007	Lauro Oliveira, MD	Research Fellow
2018 –2020	Denise Loya, MD	Visiting Fellow

2018 –2019	Jennifer Park, MD	Clinical Fellow
2018 –2021	Kai Kang, MD	Clinical Fellow, Assistant Professor
2018 –2019	Julie Goldman, MD	Clinical Fellow
2017 – 2018	Salima Hassanaly, MD	Clinical Fellow
2016 – 2017	Pranetha Thulasi, MD	Clinical Fellow
2016 – 2017	Debora Garcia, MD	Clinical Fellow
2015 – 2016	Clare Kelliher, MD	Clinical Fellow
2014 – 2015	Peter Wu, MD	Clinical Fellow
2011 – 2014	Ana Alzaga, MD	Instructor in Ophthalmology, Assistant Professor
2011 – 2012	Priyanka Sood, MD	Instructor in Ophthalmology
2010 – 2011	Brandon Rodriguez, MD	Instructor in Ophthalmology
2010 – 2011	Sheetal Shah, MD	Instructor in Ophthalmology
2009 – 2010	Lior Haim, MD	Instructor in Ophthalmology
2009 – 2010	Lisa Collea, MD	Instructor in Ophthalmology
2006 –2019	Charles Yu, MD	Professor of Ophthalmology
2006 – 2007	Mitul Vakharia, MD	Clinical Fellow
2005 – 2006	Michael Rizen, MD, PhD	Clinical Fellow

INVITED LECTURES/PRESENTATIONS

Local

- 2018 ***"Getting Started with PROSE Lenses - Applications of Scleral Lenses for Ocular Surface Disease"***, Invited Speaker. Illinois Society of Eye Physicians & Surgeons and the Chicago Ophthalmological Society Joint Conference, Rosemont, IL
- 2017 ***"Neuropathic Ocular Pain"***, Invited Speaker. Cornea Symposium, University of Illinois at Chicago, IL
- 2017 ***"VEGF Signaling at the Cornea: Angiogenic vs. Neurogenic Functions"***, Invited Speaker. Vasculata, University of Illinois at Chicago, IL
- 2017 ***"Ocular Regenerative Medicine"***, Invited Speaker. Taste of Science, Chicago, IL
- 2017 ***"Cornea and External Disease Update"***, Invited Speaker. Illinois Society of Eye Physicians & Surgeons and the Chicago Ophthalmological Society Joint Conference, Rosemont, IL
- 2016 ***"Challenging Cornea Cases"***, Invited Speaker. Illinois Society of Eye Physicians & Surgeons and the Chicago Ophthalmological Society Joint Conference, Rosemont, IL

- 2008 **“Keratoprosthesis”**, Grand Rounds Speaker. Department of Ophthalmology, St. Vincent’s Hospital, New York, NY
- 2008 **“Corneal Nerves”**, Invited Colloquium Speaker. SUNY School of Optometry, New York, NY
- 2007 **“Corneal Wound Healing: Basic Science and Clinical Applications”**, UC Davis Department of Ophthalmology Annual Symposium, Napa, CA
- 2006 **“Selective Endothelial Replacement”**, UC Davis Dept. of Ophthalmology Annual Symposium, Napa, CA
- 2005 **“The Ophthalmic Exam for Internists”**, Northern California American Academy of Physicians Annual Meeting, Monterey, CA
- 2005 **“Retroviral Gene Transfer for the Regulatable Expression of Anti-angiogenic Metalloproteases in Corneal Epithelial Cells”**, Ophthalmology Annual Meeting, Department of Ophthalmology, Harvard Medical School, Boston, MA

National

- 2018 **“VEGF Signaling in the Cornea: Angiogenic and Neurogenic Functions”**, Keynote Address. MSTP Student Research Symposium, University of Miami Miller School of Medicine, Miami, Florida
- 2018 **“VEGF Signaling at the Cornea: Angiogenic vs. Neurogenic Responses”**, Frontiers in Vision Science Lecture, Invited Speaker. Frontiers in Vision Science lecture Series of the New England Eye Center, Boston, MA
- 2018 **“Corneal Nerve Regeneration”**, Invited Speaker. American Ophthalmological Society Knapp Symposium, St. Regis Monarch Beach, Dana Point, CA
- 2016 **“Corneal Engineering”**, Invited Speaker. University of California, San Francisco, CA
- 2016 **“Corneal Nerves in Health and Disease”**, Samuel J. Kimura Lecture. Proctor Foundation, University of California, San Francisco, CA
- 2015 **“Update on Wound Healing: Corneal Nerves”**, Invited Speaker. World Cornea Congress, San Diego, CA
- 2014 **“Vascular Growth Factors Mediate Corneal Nerve Regeneration”**, Invited Lecture. Association for Research in Vision and Ophthalmology Annual Meeting, Orlando, FL
- 2014 **“Mechanisms of Corneal Nerve Repair”**, Invited Lecturer. University of Kentucky Translational Minisymposium
- 2014 **“Ocular Surface Tissue Engineering”**, Invited Lecturer. University of Kentucky Translational Minisymposium

- 2013 ***“Novel Topical Analgesics”***, American Eye Study Club Annual Meeting, Nassau, Bahamas
- 2013 ***“Neurotoxic Side Effects of Anti-VEGF Therapy on the Ocular Surface”***, Invited Lecture. Association for Research in Vision and Ophthalmology Annual Meeting, Seattle, WA
- 2012 ***“Corneal Tissue Engineering”***, Visiting Professor. Yale Eye Center, New Haven CT
- 2011 ***“VEGF-Mediated Corneal Nerve Repair”***, Biennial Corneal Research Conference, Harvard Medical School, Boston, MA
- 2010 ***“Corneal Gene Therapy”***, Invited Speaker. World Cornea Congress, Boston, MA
- 2010 ***Visiting Professor***, Cornea Service, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA
- 2010 ***“Mechanisms of Corneal Nerve Repair”***, Invited Speaker. National Eye Institute Workshop on Ocular Pain and Sensitivity, Bethesda, MD
- 2009 ***“Nano-engineered Silk Films for Ocular Surface Reconstruction”***, Biennial Corneal Research Conference, Harvard Medical School, Boston, MA
- 2009 ***“Ocular Surface Repair”***, Colloquium Speaker. Department of Materials Science, SUNY-Stonybrook, Stonybrook, NY
- 2008 ***“Ocular Surface Regeneration”***, Seminar Speaker. Department of Biomedical Engineering, Cornell University, Ithaca, NY
- 2006 ***“Corneal Wound Healing: Transgenic Neurofluorescence and Epithelial Gene Transfer”***, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA
- 2006 ***“Gene Therapy: Targeting Corneal Disease”***, Illinois Eye and Ear Infirmary, University of Illinois-Chicago, Chicago, Illinois
- 2006 ***“Corneal Wound Healing”***, Illinois Eye and Ear Infirmary, University of Illinois-Chicago, Chicago, Illinois
- 2005 ***“Gene Transfer of Antiangiogenic Genes to Corneal Epithelial Cells”***, AUPO Annual Meeting, Scottsdale, AZ
- 2004 ***“Matrilysin Gene Transfer: Designing a Weapon against Corneal Neovascularization”***, Department of Ophthalmology, University of California Davis, Sacramento, CA
- 2004 ***“The Intralase Applanation Meniscus and Ease of Corneal Flap Lifting”***, Intralase User Meeting, New Orleans, LA

International

- 2022 **“Corneal Nerves”**, Plenary Speaker. Pantheo Eye Congress, Larnaca, Cyprus.
- 2021 **“Artificial Intelligence and Health Equity”**, First Lecture, TechMonterrey, Monterrey, Mexico
- 2020 **“AI and Health Equity: quo vadis?”**, SMIT 2020, Chicago, IL
- 2019 **“Commencement Speaker”**, Ramaiah University Medical School, Bengaluru, India
- 2018 **“Ocular Surface Reconstruction”**, Invited Speaker. White Nights International Ophthalmology Congress, St. Petersburg, Russia
- 2018 **“Dry Eye Disease Update”**, Invited Speaker. White Nights International Ophthalmology Congress, St. Petersburg, Russia
- 2018 **“Neurotrophic Keratitis”**, Invited Speaker. White Nights International Ophthalmology Congress, St. Petersburg, Russia
- 2018 **“Scleral Contact Lenses for Ocular Surface Disease”**, Invited Speaker. White Nights International Ophthalmology Congress, St. Petersburg, Russia
- 2018 **“Corneal Nerves in Health and Disease”**, Invited Speaker. International Symposium on Innovation and Advances in Ophthalmology of the Monterrey Ophthalmology Association, Monterrey, Mexico
- 2018 **“Coordination of Clinical Cases and Research Competition”**, Invited Speaker. International Symposium on Innovation and Advances in Ophthalmology of the Monterrey Ophthalmology Association, Monterrey, Mexico
- 2018 **“Corneal Tissue Engineering”**, Invited Speaker. International Symposium on Innovation and Advances in Ophthalmology of the Monterrey Ophthalmology Association, Monterrey, Mexico
- 2018 **“Use of Therapeutic Scleral Lenses”**, Invited Speaker. International Symposium on Innovation and Advances in Ophthalmology of the Monterrey Ophthalmology Association, Monterrey, Mexico
- 2018 **“Ocular Surface Tissue Engineering”**, Keynote Address. All India Ophthalmological Society, Coimbatore, India
- 2018 **“Therapeutic use of Scleral Contact Lenses”**, Keynote Address. All India Ophthalmological Society, Coimbatore, India
- 2017 **“Techniques for Ocular Surface Reconstruction”**, Invited Speaker. White Nights International Ophthalmology Congress, St. Petersburg, Russia

- 2017 ***“Use of Therapeutic Scleral Contact Lenses”*** Invited Speaker. White Nights International Ophthalmology Congress, St. Petersburg, Russia
- 2017 ***“Anterior Segment Imaging”***, Invited Speaker. White Nights International Ophthalmology Congress, St. Petersburg, Russia
- 2017 ***“Corneal Nerves in Health and Disease”***, Invited Speaker. White Nights International Ophthalmology Congress, St. Petersburg, Russia
- 2016 ***“The Era of Biological Corneal Replacements”***, Invited Lecture. Asia Pacific Academy of Ophthalmology Congress, Taipei, Taiwan
- 2016 ***“Corneal and Conjunctival Infections: Bacterial, Viral, Fungal, and Protozoan”***, Invited Lecture. Asia Pacific Academy of Ophthalmology Congress, Taipei, Taiwan
- 2016 ***“PROSE for Ocular Surface Disease”***, Invited Lecture. World Ophthalmology Congress, Guadalajara, Mexico
- 2016 ***“Molecular Biology, Biophysics, Biotechnology and Issues of Personnel Training in Modern Medicine: Innovative and Ethical Problems”***, Invited Speaker. 5th Baku International Humanitarian Forum, Baku, Azerbaijan
- 2016 ***“Techniques for Ocular Surface Reconstruction”***, Invited Speaker. White Nights International Ophthalmology Congress, St. Petersburg, Russia
- 2016 ***“Corneal Nerves”***, Invited Lecture. 14th Annual Ophthalmology Specialty Day, Thammasat University, Bangkok, Thailand.
- 2016 ***“Endothelial Keratoplasty”***, Invited Speaker. White Nights International Ophthalmology Congress, St. Petersburg, Russia
- 2016 ***“Mechanisms of Ocular Pain”***, Invited Speaker. White Nights International Ophthalmology Congress, St. Petersburg, Russia
- 2016 ***“Keratoprosthesis: Indications, Techniques, Management, and Complications”***, Invited Speaker. White Nights International Ophthalmology Congress, St. Petersburg, Russia
- 2016 ***“What makes a Great Article?”***, Invited Lecture. World Ophthalmology Congress, Guadalajara, Mexico
- 2016 ***“References, Citations, and Bibliometrics?”***, Invited Lecture. World Ophthalmology Congress, Guadalajara, Mexico
- 2016 ***“How to Diagnose Progression of Keratoconus and Ectasia?”***, Invited Lecture. World Ophthalmology Congress, Guadalajara, Mexico
- 2015 ***“Cornea and Anterior Segment Ocular Trauma: Immediate and Longer Term Management”***, Invited Lecture. Asia Pacific Academy of Ophthalmology Congress,

Guangzhou, China

- 2015 ***“Nanotechnology Applications for Treating Ocular Disease”***, Invited Lecture. Asia Pacific Academy of Ophthalmology Congress, Guangzhou, China
- 2015 ***“A Cornucopia of Complex Corneal and Anterior Segment Clinical Cases”***, Invited Lecture. Asia Pacific Academy of Ophthalmology Congress, Guangzhou, China
- 2015 ***“Rapid Fire Cornea, External Eye Diseases and Eye Banking Update Session 2”***, Invited Lecture. Asia Pacific Academy of Ophthalmology Congress, Guangzhou, China
- 2014 ***“Role of Vascular Growth Factors in Corneal Nerve Regeneration”***, XXI Biennial Meeting of the International Society of Eye Research, San Francisco, CA
- 2014 ***“VEGF-B Mediates Corneal Nerve Repair”***, XXI Biennial Meeting of the International Society of Eye Research, San Francisco, CA
- 2014 ***“Targeting the Structural and Functional Consequences of Corneal Nerve Injury”***, Invited Lecture. Roche Pharmaceutical, Basel, Switzerland
- 2013 ***“Dry Eye – Quality of Life and Treatment”***, Pan-American Association of Ophthalmology Annual Meeting, Rio de Janeiro, Brazil
- 2013 ***“The Science of Refractive Surgery”***, Invited Speaker. Lo Mejor En Cornea, Mexico City, MX
- 2013 ***“PROSE Therapy”***, Invited Speaker. Lo Mejor En Cornea, Mexico City, MX
- 2013 ***“Mechanisms of Corneal Nerve Repair”***, Invited Speaker. Asian-Pacific Ophthalmologic Society, Hyderabad, India
- 2013 ***“Translating Research into Commercial Products”***, Invited Speaker. Asian-Pacific Ophthalmologic Society, Hyderabad, India
- 2012 ***“Neurotoxic Effects of VEGF-depletion at the Ocular Surface”***, XX Biennial Meeting of the International Society of Eye Research, Berlin, Germany
- 2012 ***“The Role of VEGF in Corneal Nerve Maintenance and Repair”***, XX Biennial Meeting of the International Society of Eye Research, Berlin, Germany
- 2012 ***“Biomaterials for Ocular Surface Reconstruction”***, Invited Speaker. Asian-Pacific Ophthalmologic Society, Busan, South Korea
- 2012 ***“Translating Basic Vision Science Discoveries into Clinical Therapies”***, Invited Speaker. Asian-Pacific Ophthalmologic Society, Busan, South Korea
- 2012 ***“Corneal Tissue Engineering”***, Invited Lecture. Institute of Ophthalmology “Conde de Valenciana”, Mexico City, MX
- 2012 ***“Antiangiogenic Therapy for Corneal Disease”***
“Corneal Gene Therapy”

Invited Lecturer. Mexican Society of Ophthalmology, Mexico City, MX

- 2011 ***“Femtosecond and Refractive Surgery Skills for the Cataract Surgeon-Implications for Current and Future Trainees”***, Invited Speaker. Asian-Pacific Ophthalmologic Society, Sydney, Australia
- 2011 ***“Corneal Gene Therapy”***, Invited Speaker. Asian-Pacific Ophthalmologic Society, Sydney, Australia
- 2011 ***“Corneal Nerves in Health and Disease”***, Invited Speaker. Asian-Pacific Ophthalmologic Society, Sydney, Australia
- 2010 ***“Molecular diagnostics for bacterial keratitis”***, Invited Speaker. Annual Meeting of the Asian-Pacific Ophthalmologic Society, Beijing, China
- 2010 ***“VEGF-mediated corneal nerve repair”***, Invited Speaker. XIX Biennial Meeting of the International Congress of Eye Research, Montreal, Canada
- 2006 ***“Complicated Clinical Cornea Cases”***, World Ophthalmology Conference, Sao Paulo, Brazil

PUBLICATIONS

Original Manuscripts

1. Masood F, Bhattaram R, **Rosenblatt MI**, Kazlauskas A, Chang JH, Azar DT. Lymphatic Vessel Regression and Its Therapeutic Applications: Learning From Principles of Blood Vessel Regression. *Front Physiol.* 2022 Mar 22;13:846936. doi: 10.3389/fphys.2022.846936. PMID: 35392370; PMCID: PMC8980686.
2. Elhusseiny AM, Soleimani M, Eleiwa TK, ElSheikh RH, Frank CR, Naderan M, Yazdanpanah G, **Rosenblatt MI**, Djalilian AR. Current and Emerging Therapies for Limbal Stem Cell Deficiency. *Stem Cells Transl Med.* 2022 Mar 31;11(3):259-268. doi: 10.1093/stcltm/szab028. PMID: 35303110; PMCID: PMC8968724.
3. Sun MG, Son T, Crutison J, Guaiquil V, Lin S, Nammari L, Klatt D, Yao X, **Rosenblatt MI**, Royston TJ. Optical coherence elastography for assessing the influence of intraocular pressure on elastic wave dispersion in the cornea. *J Mech Behav Biomed Mater.* 2022 Apr;128:105100. doi: 10.1016/j.jmbbm.2022.105100. Epub 2022 Jan 29. PMID: 35121423; PMCID: PMC8904295.
4. Amin S, Jalilian E, Katz E, Frank C, Yazdanpanah G, Guaiquil VH, **Rosenblatt MI**, Djalilian AR. The Limbal Niche and Regenerative Strategies. *Vision (Basel).* 2021 Sep 22;5(4):43. doi: 10.3390/vision5040043. PMID: 34698278; PMCID: PMC8544688.
5. Zhou Q, Guaiquil VH, Wong M, Escobar A, Ivakhnitskaia E, Yazdanpanah G, Jing H, Sun M, Sarkar J, Luo Y, **Rosenblatt MI**. Hydrogels derived from acellular porcine corneal stroma enhance corneal wound healing. *Acta Biomater.* 2021 Oct 15;134:177-189. doi: 10.1016/j.actbio.2021.08.011. Epub 2021 Aug 13. PMID: 34400306; PMCID: PMC8542601.

6. Putra I, Shen X, Anwar KN, Rabiee B, Samaeekia R, Almazyad E, Giri P, Jabbehdari S, Hayat MR, Elhusseiny AM, Ghassemi M, Mahmud N, Edward DP, Joslin CE, **Rosenblatt MI**, Dana R, Eslani M, Hematti P, Djalilian AR. Preclinical Evaluation of the Safety and Efficacy of Cryopreserved Bone Marrow Mesenchymal Stromal Cells for Corneal Repair. *Transl Vis Sci Technol*. 2021 Aug 12;10(10):3. doi: 10.1167/tvst.10.10.3. PMID: 34383879; PMCID: PMC8362636.
7. Sun MG, Luo Y, Teng T, Guaiquil V, Zhou Q, McGinn L, Nazzal O, Walsh M, Lee J, **Rosenblatt MI**. Silk Film Stiffness Modulates Corneal Epithelial Cell Mechanosignaling. *Macromol Chem Phys*. 2021 Apr;222(7):2170013. doi: 10.1002/macp.202170013. Epub 2021 Apr 5. PMID: 34149247; PMCID: PMC8208642.
8. Yazdanpanah G, Shah R, Raghurama R Somala S, Anwar KN, Shen X, An S, Omid M, **Rosenblatt MI**, Shokuhfar T, Djalilian AR. In-situ porcine corneal matrix hydrogel as ocular surface bandage. *Ocul Surf*. 2021 Jul;21:27-36. doi:10.1016/j.jtos.2021.04.004. Epub 2021 Apr 22. PMID: 33895367; PMCID: PMC8328923.
9. Luo Y, Kang KB, Sartaj R, Sun MG, Zhou Q, Guaiquil VH, **Rosenblatt MI**. Silk films with nanotopography and extracellular proteins enhance corneal epithelial wound healing. *Sci Rep*. 2021 Apr 14;11(1):8168. doi: 10.1038/s41598-021-87658-1. PMID: 33854156; PMCID: PMC8046786.
10. Yazdanpanah G, Jiang Y, Rabiee B, Omid M, **Rosenblatt MI**, Shokuhfar T, Pan Y, Naba A, Djalilian AR. Fabrication, Rheological, and Compositional Characterization of Thermoresponsive Hydrogel from Cornea. *Tissue Eng Part C Methods*. 2021 May;27(5):307-321. doi: 10.1089/ten.TEC.2021.0011. PMID: 33813860; PMCID: PMC8140359.
11. Chennakesavalu M, Somala SRR, Dommaraju SR, Peesapati MP, Guo K, **Rosenblatt MI**, Chang JH, Azar DT. Corneal lymphangiogenesis as a potential target in dry eye disease - a systematic review. *Surv Ophthalmol*. 2021 Nov-Dec;66(6):960-976. doi: 10.1016/j.survophthal.2021.03.007. Epub 2021 Mar 31. PMID: 33811911.
12. Waters SB, Zhou C, Nguyen T, Zelkha R, Lee H, Kazlauskas A, **Rosenblatt MI**, Malik AB, Yamada KH. VEGFR2 Trafficking by KIF13B Is a Novel Therapeutic Target for Wet Age-Related Macular Degeneration. *Invest Ophthalmol Vis Sci*. 2021 Feb 1;62(2):5. doi: 10.1167/iovs.62.2.5. PMID: 33533881; PMCID: PMC7862734.
13. Rabiee B, Anwar KN, Shen X, Putra I, Liu M, Jung R, Afsharkhamseh N, **Rosenblatt MI**, Fishman GA, Liu X, Ghassemi M, Djalilian AR. Gene dosage manipulation alleviates manifestations of hereditary *PAX6* haploinsufficiency in mice. *Sci Transl Med*. 2020 Dec 9;12(573):eaaz4894. doi: 10.1126/scitranslmed.aaz4894. PMID: 33298563.
14. Santosa SM, Guo K, Yamakawa M, Ivakhnitskaia E, Chawla N, Nguyen T, Han KY, Ema M, **Rosenblatt MI**, Chang JH, Azar DT. Simultaneous fluorescence imaging of distinct nerve and blood vessel patterns in dual Thy1-YFP and Flt1-DsRed transgenic mice. *Angiogenesis*. 2020 Aug;23(3):459-477. doi: 10.1007/s10456-020-09724-y. Epub 2020 May 5. PMID: 32372335; PMCID: PMC7316607.
15. Jabbehdari S, Yazdanpanah G, Kanu LN, Chen E, Kang K, Anwar KN, Ghassemi M, Hematti P, **Rosenblatt MI**, Djalilian AR. Therapeutic Effects of Lyophilized Conditioned-Medium Derived from Corneal Mesenchymal Stromal Cells on Corneal Epithelial Wound Healing. *Curr Eye Res*.

2020 Dec;45(12):1490-1496. doi: 10.1080/02713683.2020.1762227. Epub 2020 May 14. PMID: 32338541; PMCID:PMC7666083.

16. Yamakawa M, Santosa SM, Chawla N, Ivakhnitskaia E, Del Pino M, Giakas S, Nadel A, Bontu S, Tambe A, Guo K, Han KY, Cortina MS, Yu C, **Rosenblatt MI**, Chang JH, Azar DT. Transgenic models for investigating the nervous system: Currently available neurofluorescent reporters and potential neuronal markers. *Biochim Biophys Acta Gen Subj*. 2020 Jul;1864(7):129595. doi:10.1016/j.bbagen.2020.129595. Epub 2020 Mar 12. PMID: 32173376; PMCID:PMC7196036.
17. Jabbehdari S, Yazdanpanah G, Kanu LN, Anwar KN, Shen X, Rabiee B, Putra I, Eslani M, **Rosenblatt MI**, Hematti P, Djalilian AR. Reproducible Derivation and Expansion of Corneal Mesenchymal Stromal Cells for Therapeutic Applications. *Transl Vis Sci Technol*. 2020 Feb 21;9(3):26. doi: 10.1167/tvst.9.3.26. PMID: 32742756; PMCID: PMC7354855.
18. Shim SY, Gong S, Fan VH, **Rosenblatt MI**, Al-Qahtani AF, Sun MG, Zhou Q, Kanu L, Vieira IV, Yu CQ. Characterization of an Electronic Corneal Prosthesis System. *Curr Eye Res*. 2020 Aug;45(8):914-920. doi: 10.1080/02713683.2019.1708957. Epub 2020 Jan 3. PMID: 31886728.
19. Wang S, Yamakawa M, Santosa SM, Chawla N, Guo K, Montana M, Hallak JA, Han KY, Ema M, **Rosenblatt MI**, Chang JH, Azar DT. Quantification of Angiogenesis and Lymphangiogenesis in the Dual ex vivo Aortic and Thoracic Duct Assay. *Protein Pept Lett*. 2020;27(1):30-40. doi: 10.2174/0929866526666190925145842. PMID: 31553284; PMCID: PMC6978644
20. Yazdanpanah G, Bohm KJ, Hassan OM, Karas FI, Elhousseiny AM, Nonpassopon M, Niparugs M, Tu EY, Sugar J, **Rosenblatt MI**, Cortina MS, Djalilian AR. Management of Congenital Aniridia-Associated Keratopathy: Long-Term Outcomes from a Tertiary Referral Center. *Am J Ophthalmol*. 2020 Feb;210:8-18. doi: 10.1016/j.ajo.2019.11.003. Epub 2019 Nov 12. PMID: 31730836; PMCID: PMC6964251.
21. Gao X, Guo K, Santosa SM, Montana M, Yamakawa M, Hallak JA, Han KY, Doh SJ, **Rosenblatt MI**, Chang JH, Azar DT. Application of corneal injury models in dual fluorescent reporter transgenic mice to understand the roles of the cornea and limbus in angiogenic and lymphangiogenic privilege. *Sci Rep*. 2019 Aug 23;9(1):12331. doi: 10.1038/s41598-019-48811-z. PMID: 31444394; PMCID:PMC6707148.
22. Shim SY, Gong S, **Rosenblatt MI**, Palanker D, Al-Qahtani A, Sun MG, Zhou Q, Kanu L, Chau F, Yu CQ. Feasibility of Intraocular Projection for Treatment of Intractable Corneal Opacity. *Cornea*. 2019 Apr;38(4):523-527. doi:10.1097/ICO.0000000000001852. PMID: 30664047; PMCID: PMC6407816.
23. Kang KB, Lawrence BD, Gao XR, Guaiquil VH, Liu A, **Rosenblatt MI**. The Effect of Micro- and Nanoscale Surface Topographies on Silk on Human Corneal Limbal Epithelial Cell Differentiation. *Sci Rep*. 2019 Feb 6;9(1):1507. doi:10.1038/s41598-018-37804-z. PMID: 30728382; PMCID: PMC6365498
24. Hirata H, Dallacasagrande V, Mizerska K, Ivakhnitskaia E, **Rosenblatt MI**. Ambient Air Currents Activate Corneal Nerves During Ocular Desiccation in Rats: Simultaneous Recordings of Neural Activity and Corneal Temperature. *Invest Ophthalmol Vis Sci*. 2018 Aug 1;59(10):4031-4043. doi: 10.1167/iovs.18-24604. PubMed PMID: 30098191; PubMed Central PMCID: PMC6082328.

25. Doh SJ, Yamakawa M, Santosa SM, Montana M, Guo K, Sauer JR, Curran N, Han KY, Yu C, Ema M, **Rosenblatt MI**, Chang JH, Azar DT. Fluorescent reporter transgenic mice for in vivo live imaging of angiogenesis and lymphangiogenesis. *Angiogenesis*. 2018 Jul 3. doi: 10.1007/s10456-018-9629-2. [Epub ahead of print] Review. PubMed PMID: 29971641.
26. Yamakawa M, Doh SJ, Santosa SM, Montana M, Qin EC, Kong H, Han KY, Yu C, **Rosenblatt MI**, Kazlauskas A, Chang JH, Azar DT. Potential lymphangiogenesis therapies: Learning from current antiangiogenesis therapies-A review. *Med Res Rev*. 2018 Mar 12. doi: 10.1002/med.21496. [Epub ahead of print] Review. PubMed PMID: 29528507.
27. Sun MG, Rojdamrongratana D, **Rosenblatt MI**, Aakalu VK, Yu CQ. 3D printing for low cost, rapid prototyping of eyelid crutches. *Orbit*. 2018 Mar 2:1-5. doi: 10.1080/01676830.2018.1445760. [Epub ahead of print] PubMed PMID: 29498564; PubMed Central PMCID: PMC6119648.
28. Sartaj R, Zhang C, Wan P, Pasha Z, Guaiquil V, Liu A, Liu J, Luo Y, Fuchs E, **Rosenblatt MI**. Author Correction: Characterization of slow cycling corneal limbal epithelial cells identifies putative stem cell markers. *Sci Rep*. 2018 Feb 1;8(1):2483. doi: 10.1038/s41598-018-20584-x. PubMed PMID: 29391519; PubMed Central PMCID: PMC5794759.
29. Zhang M, Zhou Q, Luo Y, Nguyen T, **Rosenblatt MI**, Guaiquil VH. Semaphorin3A induces nerve regeneration in the adult cornea-a switch from its repulsive role in development. *PLoS One*. 2018 Jan 25;13(1):e0191962. doi: 10.1371/journal.pone.0191962. eCollection 2018. PubMed PMID: 29370308; PubMed Central PMCID: PMC5785010.
30. Zhong W, Montana M, Santosa SM, Isjwara ID, Huang YH, Han KY, O'Neil C, Wang A, Cortina MS, de la Cruz J, Zhou Q, **Rosenblatt MI**, Chang JH, Azar DT. Angiogenesis and lymphangiogenesis in corneal transplantation-A review. *Surv Ophthalmol*. 2018 Jul - Aug;63(4):453-479. doi: 10.1016/j.survophthal.2017.12.008. Epub 2017 Dec 27. Review. PubMed PMID: 29287709; PubMed Central PMCID: PMC6003844.
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Related Letters and Reviews

1. Kaufman SC, Jacobs DS, Lee WB, Deng SX, **Rosenblatt MI**, Shtein RM. Author reply: To PMID 23062647. Ophthalmology. 2013 Oct;120(10):e70-1. doi: 10.1016/j.ophtha.2013.07.010. PubMed PMID: 24090956.
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Book Chapters

1. Torras J, **Rosenblatt MI**, Azar DT. Intralamellar phototherapeutic keratectomy. Refractive Surgery. [S.l.]: Elsevier Mosby, 2007.
2. **Rosenblatt MI**. Anti-Infective and Anti-Inflammatory Pharmacotherapies. In: Whitcup S., Azar D. (eds) Pharmacologic Therapy of Ocular Disease. [Handbook of Experimental Pharmacology, vol 242] Cham, Switzerland, Springer, 2017. Pp 119-136.

Dissertations

1. "Calcitonin Gene-Related Peptide: Biosynthesis and Receptor Activation." Doctoral dissertation completed for Doctor of Philosophy degree issued by the University of Miami School of Medicine in May 1999.

Abstracts

1. Guaiquil VH, Zhou Q, Luo Y, Nguyen T, **Rosenblatt MI**. ARVO Annual Meeting 2018. Semaphorin3A induces nerve regeneration in the adult cornea-a switch from its repulsive role in development. Invest. Ophthalmol. Vis. Sci. 2018; 59(9):4418. Poster Presented, ARVO (Association for Research in Vision and Ophthalmology) Annual Meeting, April 29 - May 3, 2018, Honolulu, HI
2. Tayeb S, Michael, R, Setabutr P, Yu CQ, **Rosenblatt MI**. ARVO Annual Meeting 2018. Self-Adhering Magnetic Device to Treat Corneal Exposure Invest. Ophthalmol. Vis. Sci. 2018; 59(9):98. Poster presented, ARVO (Association for Research in Vision and Ophthalmology) Annual Meeting, April 29 - May 3, 2018, Honolulu, HI
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5. Shim SY, **Rosenblatt MI**, Sun MG, Yu CQ. AAO Annual Meeting 2017. Intraocular Display for Vision Restoration after Corneal Blindness. PO605. 12 Nov 2017. Poster session presented at the 2017 Annual meeting of the American Academy of Ophthalmology Meeting. AAO 2017, Nov. 11-14, New Orleans, LA
 6. Yu CQ, Al-Qahtani A, **Rosenblatt, MI**. ARVO Annual Meeting 2017. Flexible Acrylic Keratoprosthesis *Invest. Ophthalmol. Vis. Sci.* 2017; 58(8):5705. Poster presented, ARVO (Association for Research in Vision and Ophthalmology) Annual Meeting, May 7-11, 2017, Baltimore, MD
 7. Sun MG, Rojdamrongratana D, **Rosenblatt MI**, Aakalu, VK, Yu CQ. ARVO Annual Meeting 2017. 3D Printing for Low-cost Rapid Prototyping of Eyelid Crutches. *Invest. Ophthalmol. Vis. Sci.* 2017; 58(8):3838. Poster presented, ARVO (Association for Research in Vision and Ophthalmology) Annual Meeting, May 7-11, 2017, Baltimore, MD
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