

July 1, 2016

MARTIN BRUCE WAX, M.D.

Place of Birth: Brooklyn, New York

Citizenship: USA

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Clinical Address Department of Ophthalmology and Visual Sciences
Rutgers New Jersey Medical School,
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Present Positions Chief Medical Officer and Executive Vice-President of R&D
3/16/09-present PanOptica Inc., a private biotechnology company specializing in ophthalmic pharmaceuticals located in Bernardsville, NJ

4/14/09-present Board of Directors, Mimetogen Pharmaceuticals, Inc.
Chairman of the Board, 2011-present
Mimetogen is a private biotechnology company specializing in ophthalmic pharmaceuticals located in Montreal, CA. In 2013, Mimetogen successfully completed an option license to Alergan for its lead candidate, MIM-D-3 for Dry Eye Treatment

Recent Position Vice President, Research and Development
10-1-03 to 9-15-08 Head, Ophthalmology Discovery Research, Preclinical Sciences and Exploratory Development, Alcon Labs Inc., Ft. Worth, TX

Alcon Responsibilities: Head of Ophthalmic Discovery Research and Pre-clinical Sciences at Alcon Labs, Ft. Worth, TX. Therapeutic areas include glaucoma, retina, allergy, dry eye, and anti-infectives. Responsible for all key pharmaceutical in-licensing evaluations and recommendations for corporate business development

Discovery Research responsibilities include new target selection, pipeline advancement, pre-clinical positioning, viability testing in man and compound recommendation for development. Responsible for strategic alliances with all de novo discovery partners as well as in-licensing opportunities. Management responsibility included accountability for 110 people and an annual budget of 55.M (2008).

Pre-clinical responsibilities include safety, toxicology, pharmacokinetics, microbiology and process packaging in addition to regulatory filings of CMC sections for IND, ANDA, MAA, NDA, JNDA and appropriate foreign filing equivalents. Key participant in clinical development efforts, biomarkers,

licensing and drug delivery. Management responsibility included accountability for 315 people with an annual budget of 80M (2008).

Development responsibilities: From 2004-2005, served as the Head of Glaucoma clinical development. During that period, Alcon received one NDA approval (Apraclonidine 0.15% generic) and filed one NDA (Travatan BAC-free- approved 2006)

Exploratory Development (March 2008) responsible for POC studies, first in man

Currently active

Clinical Professor
Department of Ophthalmology and Visual Sciences
Rutgers New Jersey Medical School,
Newark, NJ

Education:

Undergraduate: 1973 B.A. University of Rochester, Rochester, NY

Graduate: 1978 M.D. University of Southern California
School of Medicine, Los Angeles, CA

Postgraduate: 1978-79 Intern, Los Angeles County-University of Southern California Medical
Center, Los Angeles, CA

1979-82 Resident in Ophthalmology, Wills Eye Hospital, Philadelphia, PA

1982-84 Postdoctoral Fellow in Neuropharmacology,
NIH Neuropsychopharmacology Training Program
University of Pennsylvania School of Medicine, Philadelphia, PA

1984-85 Harold G. Scheie Postdoctoral Fellow in Glaucoma
Scheie Eye Institute, Department of Ophthalmology
University of Pennsylvania School of Medicine, Philadelphia, PA

Previous Academic Positions/Employment:

1985-90 Assistant Professor of Ophthalmology, University of Pennsylvania School of
Medicine, Philadelphia, PA

1986-90 Assistant Professor of Pharmacology, University of Pennsylvania School of
Medicine, Philadelphia, PA

1990-99 Associate Professor of Ophthalmology and Visual Sciences, Washington
University School of Medicine, St. Louis, MO

2000- Professor of Ophthalmology and Visual Sciences,
Washington University School of Medicine, St. Louis, MO

2002-2003 David F. Weeks Professor of Translational Ophthalmology Research
Department of Ophthalmology and Visual Sciences
Washington University School of Medicine, St. Louis, MO

2002-2003 Senior Director and Head
Ophthalmology Discovery Research
Pharmacia/Pfizer Inc., St. Louis, MO

2003-2009 Clinical Professor, Dept of Ophthalmology and Visual Sciences, University of
Texas Southwestern Medical School, Dallas, TX

Hospital Appointments:

1982-90 Clinical Instructor, General Ophthalmology Service, Wills Eye Hospital,
Philadelphia, PA
1985-90 Presbyterian-University of Pennsylvania Medical Center, Scheie Eye Institute,
Philadelphia, PA
1990-2003 Attending Surgeon, Barnes Hospital, St. Louis, MO
2003-2014 Clinical Professor, Univ of Texas Southwestern Medical School, Dallas, TX
2014- Clinical Professor
Dept. Ophthalmology and Visual Sciences
Rutgers University, New Brunswick, NJ

University Committees:

1987-88 Continuing Medical Education Committee
University of Pennsylvania School of Medicine
1987-88 Anesthesiology Chairperson Search Committee
University of Pennsylvania School of Medicine
1988-89 Committee to Review the Department of Medicine
University of Pennsylvania School of Medicine
1989-90 Committee to Review the Department of Psychiatry
University of Pennsylvania School of Medicine
1992-97 Chairman, Operating Room Committee
Washington University School of Medicine
1999-2002 Executive Faculty, Dept. of Ophthalmology
Washington University School of Medicine

Board Certification:

1983 Fellow, American Board of Ophthalmology

Licensure:

Pennsylvania, Missouri, Illinois, Texas, New Jersey

Honors and Awards:

1976 CIBA-Geigy Teaching Award
University of Southern California, School of Medicine
1981 Shoemaker Award, First Prize Paper Presentation
Pennsylvania Academy of Ophthalmology
1984 Virginia Boyce Scholarship
National Society for Prevention of Blindness,
1991 Research to Prevent Blindness Robert E. McCormick Scholar
1995 Research to Prevent Blindness Lew R. Wasserman Merit Award
1999 New York Academy of Medicine Lewis Rudin Glaucoma Prize
2001 Research to Prevent Blindness Senior Scientific Investigator Award
2002 American Glaucoma Society Clinician-Scientist Award
2002 American Academy of Ophthalmology Service Honor Award
2002-03 David Weeks Professor of Ophthalmology and Visual Sciences
Dept. of Ophthalmology, Washington University, St. Louis, MO
2005-06 Best Doctors in America
2007-08 Best Doctors in America
2008 America's Top Ophthalmologists
2010 Barany Prize (awarded by Int'l Society for Eye Research for advances in
Ocular pharmacology)
2011 Association for Research in Vision and Ophthalmology Gold Fellow

Professional Societies and Organizations:

American Academy of Ophthalmology
Association for Research in Vision and Ophthalmology
Society for Neuroscience
International Society for Eye Research
American Glaucoma Society

Invited Professorships and Lectureships:

- 1984 6th International Congress of Eye Research, Alicante, Spain
- 1987 Rocky Mountain Society Glaucoma Symposium Salt Lake City, UT
- 1987 Ophthalmology Society of the Medical Association of Puerto Rico, San Juan, PR
- 1987 Merck Sharp & Dohme Glaucoma Faculty Symposium, Tucson, AZ
- 1987 Allergan Pharmaceuticals Ocular Drug Update, Irvine, CA
- 1988 Visiting Professor, Illinois Eye and Ear Infirmary and the Chicago Glaucoma Society, Chicago, IL
- 1988 First National Congress of Ocular Pharmacology, Florence, Italy
- 1989 Visiting Professor, University of South Florida, Tampa, FL
- 1989 Visiting Professor, Washington University School of Medicine, St. Louis, MO
- 1990 Visiting Professor, University of Louisville School of Medicine Louisville, KY
- 1990 Visiting Professor, Jules Stein Eye Institute, UCLA School of Medicine, Los Angeles, CA
- 1990 University of British Columbia, Vancouver, Canada
- 1990 International Society for Eye Research, Helsinki, Finland
- 1991 Greater New York Ophthalmology Clinical Lecture Series
- 1992 Receptor Biology and Glaucoma Symposium, Hamilton, Bermuda
- 1992 Visiting Professor, University of Pittsburgh School of Medicine Pittsburgh, PA
- 1992 Lexington Ophthalmological Society, Lexington, KY
- 1993 Symposium on Ocular Pharmacology, Novi, MI
- 1993 Scientific Consultant, Alcon Pharmaceuticals, Ft. Worth, TX
- 1994 Visiting Professor, Albert Einstein College of Medicine, NY
- 1994 Greater New York Ophthalmology Clinical Lecture Series
- 1994 Venezuela Ophthalmology Society, Caracas, Venezuela
- 1994 Visiting Professor, Univ. of Tennessee School Medicine, Memphis, TN.
- 1995 Visiting Professor, University of Missouri at Columbia, Columbia, MO.
- 1995 Visiting Professor, Baptist Eye Center, Little Rock, AK.
- 1995 Nantucket Glaucoma Symposium, Nantucket, MA
- 1996 Visiting Professor, University of Rochester, Rochester, NY
- 1996 XII International Congress of Eye Research, Yokohama, Japan
- 1996 Visiting Professor, Northwestern University Medical School, Chicago, IL
- 1997 Glaucoma Research Foundation Glaucoma/CSF Catalyst Meeting, Montreal, CA
- 1998 Second International Glaucoma Symposium, Jerusalem, Israel
- 1998 International Glaucoma Forum, Tokyo, Japan
- 1998 Visiting Professor, Cleveland Clinic Foundation, Cleveland, OH
- 1998 International Congress of Ophthalmology, Amsterdam, Denmark
- 1998 International Congress of Eye Research, Paris, France
- 1998 Glaucoma Foundation Think Tank, New York, NY
- 1998 Glaucoma Research Foundation Apoptosis Catalyst Meeting

Montreal, CA
1998 Boston Neuroprotection Course, Boston, MA
1999 Visiting Professor, Mayo Clinic Foundation, Rochester, MN
1999 Visiting Professor, University of Wisconsin, Madison, WI
1999 Visiting Professor, Yale University, New Haven, CT
1999 Midwest Glaucoma Society, Chicago, IL
1999 Research to Prevent Blindness, National Science Writer's Meeting. Los Angeles, CA
2000 Riverwalk Neuroprotection Symposium, San Antonio, TX
2000 Oxford Ophthalmological Congress, Oxford, England
2001 Lew R. Rudin Lecture, Manhattan Eye, Ear and Throat Hospital New York, NY
2001 Visiting Professor, Mount Sinai Medical Center, New York, NY
2001 Chicago Glaucoma Society, Chicago, IL
2001 Visiting Professor, Univ. of Colorado, Denver CO
2001 Chair, Pharmacia Advisory Board Meeting, Phoenix, AZ
2002 Hawaiian Eye Meeting, Glaucoma Update
2002 David Bryon Lecture, Visiting Professor, Duke University
2002 American Glaucoma Society Clinician Scientist Lecturer, San Francisco
2003 Japanese Glaucoma Society Special Guest Lecture, Tokyo, Japan
2004 Royal Hawaiian Eye Meeting, Kauai, Hawaii
2004 1st Annual Max Forbes Glaucoma Symposium, Columbia Univ., NYC
2004 American Academy of Ophthalmology SubSpecialty Day, New Orleans
2005 Schoenberg Memorial Lecture, Univ. of Illinois, Chicago, IL.
2005 Keynote Speaker, Oceanic Glaucoma Society, Cairns, Australia
2007 The Saul H. Sugar Lecture, Henry Ford Hospital, Detroit, MI
2008 Visiting Professor, University of California, San Francisco
2009 Ocular Immunology Meeting, featured speaker, Boston, MA
2010 Glaucoma Research Society, Kyoto, Japan

Research Support:

Government:

Principal Investigator
Heat shock proteins and their antibodies in glaucoma
National Institutes of Health- RO-1 EY12314, 2002-2006
\$500,000 direct costs (terminated voluntarily 2003)

Principal Investigator
Heat shock proteins and their antibodies in glaucoma
National Institutes of Health- RO-1 EY12314, 1998-2002,
\$720,000 direct costs

Principal Investigator
Vacuolar -H⁺-ATPase in the Ciliary Epithelium
National Institutes of Health- RO-1 EY06810, 1995-1998
\$635,000 direct costs

Principal Investigator

Ocular Hypertension Treatment Trial
National Eye Institute/NIH
U10 EY010438, 1994-2002
\$417,706 direct costs

Principal Investigator
G Protein Effector Systems in Ciliary Epithelial Cells
National Institutes of Health - RO1 EY06810, 1989-95,
\$720,675 direct costs

Principal Investigator
Adenylate Cyclase Desensitization in Iris/Ciliary Body
National Institutes of Health - RO1 EY06810, 1986-89,
\$291,176 direct costs

Non-government: Principal Investigator

Caspases and their inhibitors in diabetic retinopathy
International Retinal Research Foundation 2002-2005
\$40,000 direct costs 2002-2003, renewable

Unrestricted Research Grant
Pharmacia Corp, 2001-2002
\$30,000 direct costs

Unrestricted Award
Research to Prevent Blindness
Senior Investigator Award, 2001-2002
\$65,000 direct costs

Principal Investigator
Experimental Autoimmune Glaucoma
Glaucoma Research Foundation, 1999-2001
\$50,000 direct costs

Principal Investigator
Serum autoantibodies to optic nerve head glycosaminoglycans in glaucoma,
American Health Assistance Foundation, 1999-2001
\$50,000 direct costs

Principal Investigator
Autoantibodies and Normal Pressure Glaucoma
American Health Assistance Foundation, 1997-1998
\$25,000 direct costs

Principal Investigator
The Role of Autoimmunity in Normal Pressure Glaucoma
Glaucoma Research Foundation of San Francisco 1996-1998
\$43,000 direct costs

Principal Investigator
An Autoimmune Basis for Normal Pressure Glaucoma
American Health Assistance Foundation, 1995-1997
\$50,000 direct costs

Unrestricted Award
Research to Prevent Blindness
Lew R. Wasserman Award, 1995
\$40,000 direct costs

Unrestricted Award
Research to Prevent Blindness
Robert E. McCormick Scholarship, 1991
\$25,000 direct costs

Principal Investigator
Fight For Sight
Virginia Boyce Scholarship, 1984
\$15,000 direct costs

Clinical Drug Trials:

Principal Investigator
Ciba Vision Pharmaceuticals
Rescula (prostaglandin) 1998-1999
\$ 110,000 direct costs

Principal Investigator
Allergan Pharmaceuticals
Bromonidine 1993-94
\$ 40,000 direct costs

Principal Investigator
Kabi-Pharmacia
PhXA41 (prostaglandin) 1993-94
\$75,000 direct costs

Principal Investigator
Merck Sharp and Dohme
Timoptic-in-Gelrite, 1992-93
\$40,000 direct costs

Patents (and provisional):

- 1) A method of treating glaucoma with oligonucleotides (US Patent No. 5,545,626)
- 2) The use of TNF alpha agents for the treatment of glaucoma (US Patent No. 6,531,128)
- 3) Compositions of an aquaporin modulating agent and an aqueous humor modulating agent for the treatment of elevated intraocular pressure (US patent pending; provisional patent 60/444,509)
- 4) RNAi-mediated inhibition of vacuolar ATPase for treatment of glaucoma. Docket 3022 (12-30-05)
- 5) RNAi-mediated inhibition of ocular targets. Docket 3023 (12-22-05)
- 6) Use of Vanilloid receptor-1 Antagonists for the prevention and treatment of glaucoma. Docket 2852 (1-31-06)

- 7) Use of FR167653 alone or in combination with IOP-lowering agents to protect retinal ganglion cells and optic nerve/cells to preserve vision and hearing (US patent pending)
- 8) Use of aquaporin inhibitors to treat ocular neovascularization and retinal disorders (US patent pending)
- 9) Drainage device for intraocular pressure control (US patent pending)
- 10) RNAi-mediated inhibition of vacuolar ATPase for treatment of glaucoma (US patent pending)
- 11) Use of aquaporin stimulators for corneal healing (US patent pending)
- 12) Use of aquaporin inhibitors to treat corneal and conjunctival disorders (US patent pending)
- 13) Use of AQP1 stimulators to treat ocular hypertension and glaucoma (US patent pending)
- 14) High throughput screening assay for aquaporins and aquaporin-like proteins (US patent pending)
- 15) Novel delivery methods for treatment of retinal disorders (US patent pending)
- 16) Agents having relaxin activity for treatment of ocular and otic extracellular matrix-related disorders (US patent pending)
- 17) RNAi-mediated inhibition of aquaporin1 for treatment of IOP-related conditions (US patent pending)
- 18) RNAi-mediated inhibition of aquaporin4 for treatment of IOP-related conditions (US patent pending)
- 19) RNAi-mediated inhibition of aquaporin4 for treatment of ocular neovascularization (US patent pending)
- 20) RNAi-mediated inhibition of aquaporin1 for treatment of ocular neovascularization (US patent pending)
- 21) CAIs substituted with no donating moieties (US patent pending)
- 22) Prostaglandin analogs with no donors in the 9, 11, or 15 position (US patent pending)
- 23) Treatment of age-related macular degeneration using inhibitors of properdin (US patent pending)
- 24) C3- and C5-convertase inhibitors for the treatment of glaucoma and ocular hypertension (US patent pending)
- 25) RNAi-mediated inhibition of HTRA1 for treatment of macular degeneration (US patent pending)
- 26) Use of AQP1 inhibitors to treat ocular hypertension and glaucoma (US patent pending)
- 27) RNAi-mediated inhibition of Connexin 43 for treatment of IOP-related conditions, US patent No 12/371007 issued US patent 9173896.

Major Teaching and Clinical Responsibilities:

Teaching and surgical supervision to Ophthalmology residents and fellows at the Washington University Medical School
Clinical supervision of residents at Fellows at University of Texas Southwestern Medical School

National and International Committees:

1984-85 Allergan Pharmaceuticals, Scientific Advisory Board

- 1985 National Institute of Health, National Eye Institute Scientific Study Section (ad hoc)
- 1995-2000 American Academy of Ophthalmology, Glaucoma 2001, Missouri State Chairman
- 1995-1999 Academy of Ophthalmology, Glaucoma 2001 National Scientific Advisory Board
- 1999-2000 Int'l Congress Eye Research, Program Committee, XIV Meeting Santa Fe, NM, September 2000, Co-chairman, Glaucoma Section,
- 1999-2001 International Advisory Board, 3rd International Glaucoma Symposium. Prague, Czech Republic, March 2001
- 1999-2000 American Academy of Ophthalmology, National Scientific Glaucoma Advisory Board
- 1999-2003 Scientific Advisory Board, Glaucoma Research Foundation, San Francisco, CA
- 2000-2000-02 Scientific Advisory Board, Glaucoma Foundation, NY, NY
Chairman, US Commercial Advisory Board, Pharmacia
- 2001 Organizer, Glaucoma: Learning From Other Neurodegenerations RPB Meeting; Sarasota, Florida, March 2001
- 2001-2005 ARVO Glaucoma Section Program Committee
- 2001-2002 Kirsch Foundation; Catalyst for a Cure Advisory Board
- 2001-2002 International Commercial Advisory Board, Pharmacia

Corporate Boards

- 2003- Board of Directors, Glaucoma Research Foundation, San Francisco
- 2009- Chairman of the Board of Directors, Mimetogen, Inc, Montreal, Canada
- 2010 Consultant to Board of Directors, Aquesys Inc, Irvine, CA

University Responsibilities:

- 1987-88 Continuing Medical Education Committee
University of Pennsylvania School of Medicine
- 1987-88 Anesthesiology Chairperson Search Committee
University of Pennsylvania School of Medicine
- 1988-89 Committee to Review the Department of Medicine
University of Pennsylvania School of Medicine
- 1989-90 Committee to Review the Department of Psychiatry
University of Pennsylvania School of Medicine
- 1992-97 Chairman, Operating Room Committee
Washington University School of Medicine
- 1997-2000 Operating Room Committee
Washington University School of Medicine
- 1997-1999 Department of Ophthalmology
Utilization Review Committee
- 1997-2001 Executive Clinical Faculty Committee
Department of Ophthalmology
Washington University School of Medicine

Editorial Responsibilities:

- 1988 Editor, T Krupin and Wax MB *Ophthalmology Clinics of North America*, vol. 1, no. 2. W.B. Saunders, Philadelphia, 1988
- 1999- Editorial Board Member, Current Eye Research
- 1999 Associate Editor, *The Glaucomas*, 3rd Edition, Edited by R Ritch, MB Shields T Krupin, CV Mosby, Philadelphia
- 1999-2010 Managing Editor, Glaucoma section, e-medicine© Ophthalmology
- 2001-2010 Editorial Board Member, International Glaucoma Review
- 2006 Editor, "Ocular Therapeutics - An Eye on New Discoveries" Editors: Yorrio T, Clark AF, Wax MB, Elsevier Press, London, UK, .
- 2007-2008 Editorial Board Member, Journal of Ocular Biology, Diseases, and Informatics (inaugural editorial board)
- 2007-2012 Editorial Board, Investigational Ophthalmology and Visual Sciences
- 2012- Associate Editor, Investigational Ophthalmology and Visual Sciences

BIBLIOGRAPHY

Peer Reviewed Manuscripts

1. Wax MB, Ridley M, Magargal L: Reversal of retinal and optic disc ischemia in a patient with sickle cell trait and glaucoma secondary to traumatic hyphema. *Ophthalmology* 1982; 89:845-851.
2. Angiolillo PJ, Donoso LA, Folberg R, Augsburger JJ, Wax MB: Electron spin resonance and high pressure liquid chromatographic analysis of melanin in posterior choroidal melanomas. *Cancer Biochem Biophys* 1985; 8:61-65.
3. Henry, JC, Krupin, T, Schultz, J, Wax MB: Increased intraocular pressure following neodymium-YAG laser iridectomy. *Arch Ophthalmol*. 1986; 101:174.
4. Krupin T, Wax MB, Moolchandani J: Aqueous production. *Trans Ophthalmol Soc UK* 1986; 105:111-116.
5. Coca-Prados M, Wax MB: Transformation of human ciliary epithelial cells by Simian Virus 40: Induction of cell proliferation and retention of β_2 -adrenergic receptors. *Proc Natl Acad Sci (USA)* 1986; 83:8754-8758.
6. Wax, MB, Molinoff PB: Distribution and properties of β -adrenergic receptors in human iris/ciliary body. *Invest Ophthalmol Vis Sci* 1987; 28:420-430.
7. Piccone M, Littzi J, Krupin T, Stone RA, Davis M, Wax MB: Effects of neuropeptide Y on the isolated rabbit iris dilator muscle. *Invest Ophthalmol Vis Sci* 1988; 29:330-332.
8. McGonigle P, Wax MB, Molinoff PB: Characterization of binding sites for (3 H)-spiroperidol in human retina. *Invest Ophthalmol Vis Sci* 1988; 29:687-694.
9. Krupin TK, Dorfman NH, Spector SM, Wax MB: Secondary glaucoma associated with uveitis. *Glaucoma* 1988; 10:85-90.
10. Bishop KI, Werner EB, Krupin T, Kozart M, Beck SR, Nunan FA, Wax MB: Variability and reproducibility of optic disc topographic measurements with the Rodenstock Optic Nerve Head Analyzer. *Am J Ophthalmol* 1988; 106:696-702.

11. Wax MB, Molinoff PB, Alvarado J, Polansky J.: Characterization of β -adrenergic receptors in cultured human trabecular cells and in human trabecular meshwork. *Invest Ophthalmol Vis Sci* 1989; 30:51-57.
12. Wax MB, Coca-Prados MC: Receptor-mediated phosphoinositide hydrolysis in human ocular ciliary epithelial cells. *Invest Ophthalmol Vis Sci* 1989; 30:1675-1679.
13. Lee CH, Reisine TD, Wax MB: Alterations of intracellular calcium in human non-pigmented ciliary epithelial cells of the eye. *Exp Eye Res* 1989; 48:733-743.
14. Barrett DB, Breslau NA, Wax MB, Molinoff PB, Downs RW.: New form of Pseudohypoparathyroidism with abnormal catalytic adenylate cyclase. *Am J Physiol* 1989; 257: E277-E283.
15. Henry JC, Krupin TK, Wax MB, Feitl ME: A modified scleral punch for filtration surgery. *Am J Ophthalmol* 1989; 108:740-741.
16. Lin C, Stone, RA, Wax MB: Angiotensin binding sites in rabbit anterior uvea and human ciliary epithelial cells. *Invest Ophthalmol Vis Sci* 1990; 31:147-152.
17. Cooper HS, Manning DM, Wax MB: G protein complement of SV40-transformed ciliary epithelial cells. *Curr Eye Res* 1990; 9:493-499.
18. Lopez-Briones L, Wax MB, Coca-Prados MC: Regulation of protein phosphorylation substrates in ocular ciliary epithelial cells by A, C and Ca^{2+} /Calmodulin-dependent protein kinases. *Exp Eye Res* 1990; 51: 277-286.
19. Krupin T, Wax MB, Carre D, Moolchandani J, Civan M: The effects of adrenergic agents on transepithelial electrical measurements across the isolated iris-ciliary body. *Exp Eye Res* 1991; 53:709-716.
20. Wax MB, Kass MA, Kolker AE, Nordlund JR: Anterior lamellar sclerectomy for nanophthalmos. *J Glaucoma* 1992; 1:222-227.
21. Wax MB: Does dopamine act at dopamine receptors in the ciliary epithelia?: *Exp Eye Res* 1993; 53:371-373.
22. Wax MB, Sanghavi DM, Lee CH, Kapadia M: Purinergic receptors in ocular ciliary epithelial cells. *Exp Eye Res* 1993; 57:89-95.
23. Wax MB, Barrett D: Regulation of adenylyl cyclase in rabbit iris/ciliary body. *Curr Eye Res* 1993; 12: 507-52.
24. Wax MB, Barrett DA, Hart WM, Custer PL: Optic nerve sheath fenestration for low tension glaucoma. *Arch Ophthalmol* 1993; 111;1219-1228.
25. Bode DC, Hamel LT, Wax MB: Distinct profiles of phosphodiesterase (PDE) isozymes in ocular ciliary epithelial cells. *J Pharm Exp Ther* 1993; 267:1286-1291.
26. Wax MB, Patil R: A rationale for gene targeting in glaucoma therapy. *J Ocular Pharmacol* 1994; 10:403-410.

27. Krupin T, Rosenberg LF, Ruderman JM, Feitl ME, Wax MB, Kass MA, Kolker AE, Camras CB, Liebmann JM, Ritch R, Serle JB, Schumer RA, Podos SM, Kaufman PL, Perkins TW: Krupin eye valve with disk for filtration surgery. *Ophthalmology* 1994; 101:651-658.
28. Wax MB, Barrett DA, Pestronk A: Increased incidence of paraproteinemia and autoantibodies in patients with normal pressure glaucoma. *Am J Ophthalmol* 1994; 117:561-578.
29. Wax MB, Patil R: Immunoprecipitation of A1 adenosine receptor-GTP-binding protein complexes using GTP-binding protein selective antisera. *Invest Ophthalmol Vis Sci* 1994; 35 (7):3057-3063.
30. Patil RV, Yang X, Saito I, Coca-Prados M, Wax MB: Cloning of a novel cDNA homologous to CHIP28 water channel from ocular ciliary epithelium. *Biochem Biophys Res Comm* 1994; 204: 861-866.
31. Romano C, Barrett DA, Li X, Pestronk, A, Wax MB: Anti-rhodopsin antibodies in sera from patients with normal pressure glaucoma. *Invest Ophthalmol Vis Sci* 1995; 36 (10): 1968-1975.
32. Camras CB and the USA Latanoprost Study Group: Comparison of latanoprost and timolol in patients with ocular hypertension and glaucoma-six month, masked USA multicenter trial. *Ophthalmology* 1996; 103:138-147.
33. Camras CB, Alm A, Watson P, Sternschantz J and the Latanoprost Study Groups: Latanoprost, a prostaglandin analog, for glaucoma therapy. *Ophthalmology* 1996; 103:1916-1924.
34. Tezel G, Kass MA, Kolker AE, Wax MB. Comparative optic disc analysis in normal pressure glaucoma, primary open angle glaucoma and ocular hypertension. *Ophthalmology* 1996; 103:2105-2113.
35. Patil RV, Saito I, Yang X, Wax MB: Expression of aquaporins in the rat ocular tissue. *Exp Eye Res* 1997; 64: 203-209.
36. Tezel G, Kass MA, Kolker AE, Becker B, Wax MB: Plasma and aqueous humor endothelin levels in primary open angle glaucoma. *J Glaucoma* 1997; 6:3-8.
37. Burchfield JC, Kass MA, Wax MB: Primary valve malfunction of the Krupin eye valve with disk. *J Glaucoma* 1997; 6:152-156.
38. Wax MB, Saito I, Tenkova T, Krupin T, Becker B, Brown D, Nelson N, Gluck S: Vacuolar H⁺ ATPase in the ocular ciliary epithelium. *Proc Nat Acad Sci (USA)* 1997; 94:6752-6757.
39. Tezel G, Kolker AE, Kass MA, Wax MB: Comparative results of combined procedures for glaucoma and cataract. I. Extracapsular cataract extraction versus phacoemulsification and foldable versus unfoldable intraocular lens. *Ophthalmic Surg Lasers* 1997; 28:539-550.

40. Tezel G, Kolker AE, Kass MA, Wax MB: Comparative results of combined procedures for glaucoma and cataract. II. Limbus-based versus fornix-based conjunctival flaps. *Ophthalmic Surg Lasers* 1997; 28:551-557.
41. Patil RV, Han Z, Wax MB: Arginine vasopressin and atrial natriuretic peptide regulates the water channel activity of aquaporin 1. *Biochem Biophys Res Comm* 1997; 238: 392-396.
42. Tezel G, Kolker A, Kass MA, Wax MB, Gordon M, Siegmund KD: Parapapillary chorioretinal atrophy in ocular hypertension: I. An evaluation as a predictive factor for the development of glaucomatous damage. *Arch Ophthalmol* 1997; 115:1503-1508.
43. Tezel G, Kolker A, Wax MB, Kass MA, Gordon M, Siegmund KD: Parapapillary chorioretinal atrophy in ocular hypertension: II. An evaluation of progressive changes. *Arch Ophthalmol* 1997; 115:1509-1514.
44. Patil RV, Han Z, Wax MB: Aquaporins and ion conductance. [Technical Communication] *Science* 1997; 275:1492.
45. Wax MB, Tezel G, Saito I, Gupta RS, Harley JB, Li Z, Romano C: Anti-Ro/SS-A positivity and heat shock protein antibodies in patients with normal pressure glaucoma. *Am J Ophthalmol* 1998; 125:145-157.
46. Han Z, Wax MB, Patil RV: Regulation of aquaporin-4 water channels by phorbol ester-dependent protein phosphorylation. *J Biol Chem* 1998; 273:6001-6004.
47. Holekamp NM, Wax MB: Case Report: Intraocular anesthetic following peribulbar anesthesia. *Arch Ophthalmol* 1998; 116:380-381.
48. Tezel G, Kolker AE, Kass MA, Wax MB: Late removal of releasable sutures after trabeculectomy or combined trabeculectomy with cataract extraction supplemented with antifibrotics. *J Glaucoma* 1998;7:75-81.
49. Wax MB, Tezel G, Edward DP: Clinical and histopathological findings of a patient with normal pressure glaucoma. *Arch Ophthalmol* 1998;116:993-1001.
50. Han Z, Wax MB, Patil RV: A potential role of aquaporins and atrial natriuretic peptides in aqueous humor dynamics. *Exp Eye Res.* 1998; 67:251-253.
51. Camras CB, Wax MB, Ritch R, et al. and the United States Latanoprost Study Group. Latanoprost treatment for glaucoma: Effects of treating for one year and of switching from timolol. *Am J Ophthalmol* 1998;126:390-399.
52. Wax MB: Steroid-induced glaucoma in a young woman. *J Glaucoma* 1998;7:353-358.

53. Tezel G, Seigel G, Wax MB: Autoantibodies to small heat shock proteins in glaucoma. *Invest Ophthalmol Vis Sci* 1998;39:2277-2287.
54. Edward DP, Wax MB: Congenital lenticular pigmentation. *Br J Ophthalmol* 1998;82(11):1344.
55. Romano C, Li Z, Arendt A, Hargrave PA, Wax MB: Epitope mapping of anti-rhodopsin antibodies from patients with normal pressure glaucoma. *Invest Ophthalmol Vis Sci* 1999; 40:1275-1280.
56. Fellman R, Tezel G, Wax MB: Effects of methotrexate treatment on serum immunoreactivity of a patient with normal pressure glaucoma. *Am J Ophthalmol* 1999; 127:724-725.
57. Tezel G, Edward DP, Wax MB: Serum autoantibodies to optic nerve head glycosaminoglycans in patients with glaucoma. *Arch Ophthalmol* 1999;117:917-924.
58. Wax, MB, Tezel G, Neshet R, Middleton W: The effect of fludrocortisone on ocular blood flow in glaucoma as assessed by color Doppler ultrasonography. *Annals Ophthalmol* 1999;31:161-164.
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