

RESEARCH TO PREVENT BLINDNESS

2004 BIBLIOGRAPHY

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Research Articles Crediting RPB for Support in 2004

48 Unrestricted Grants

9 Challenge Grants

186 Individual Awardees

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RESEARCH ARTICLES CREDITING RPB FOR SUPPORT IN 2004:
LISTING BY SCHOOL

<u>PUBLICATION</u>	<u># OF CREDITS</u>
AMERICAN JOURNAL OF OPHTHALMOLOGY	76
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SPECIFIC RPB GRANTS ACKNOWLEDGED*

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RPB Challenge Grants	38	RPB James S. Adams Scholars	4
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RPB Physician-Scientist Awd.	25	RPB Research Sabbatical Grant	1
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RPB Walt and Lilly Disney Awd.	1		
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*Includes research articles which credit more than one RPB grant recipient or category.

UNIVERSITY OF ALABAMA

ARCHIVES OPHTHALMOLOGY

McGwin Jr. G, McNeal S, Owsley C, Girkin C, Epstein D, Lee LP: **Statins and Other Cholesterol-Lowering Medications and the Presence of Glaucoma.** Arch Ophthalmol. 2004;122:822-826 (Univ. of Alabama and Duke Univ. - Unres. Grants, Lew R. Wasserman Merit Awd. and Sr. Scientific Inv. Awd.) Keyword(s): Glaucoma

INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE

King JL, Guidry C: **Insulin-Like Growth Factor Binding Proteins Modulate Müller Cell Responses To Insulin-Like Growth Factors.** Invest Ophthalmol Vis Sci 2004;45:2848-2855 (Univ. of Alabama - Unres. Grant) Keyword(s): Insulin-like growth factor, Müller, diabetes

Yan R-T, Wang S-Z: **Requirement Of Neurod For Photoreceptor Formation In The Chick Retina.** Invest Ophthalmol Vis Sci 2004;45:48-58 (Univ. of Alabama - Unres. Grant and Dolly Green Scholar) Keyword(s): Photoreceptor; Chick Retina

Xie W, Yan R-T, Ma W, Wang S-Z: **Enhanced Retinal Ganglion Cell Differentiation By Ath5 And NSCL1 Coexpression.** Invest Ophthalmol Vis Sci 2004;45:2922-2928 (Univ. of Alabama - Unres. Grant and Dolly Green Scholar) Keyword(s): Differentiation

Jackson GR, McGwin Jr. G, Phillips JM, Klein R, Owsley C: **Impact of Aging and Age-Related Maculopathy on Activation of the a-Wave of the Rod-Mediated Electroretinogram.** Invest Ophthalmol Vis Sci 2004;45:3271-3278 (Univ. of Alabama - Unres. Grant and Sr. Scientific Inv. Awd.) Keyword(s): Electroretinogram, Age-related maculopathy

McGwin Jr. G, Mays A, Joiner W, DeCarlo DK, McNeal S, Owsley C: **Is Glaucoma Associated with Motor Vehicle Collision Involvement and Driving Avoidance?** Invest Ophthalmol Vis Sci 2004;45:3934-3939 (Univ. of Alabama - Unres. Grant and Sr. Scientific Inv. Awd.) Keyword(s): Glaucoma

King JL, Guidry C: **Müller Cell Production of Insulin-Like Growth Factor Binding Proteins In Vitro: Modulation with Phenotype and Growth Factor Stimulation.** Invest Ophthalmol Vis Sci 2004;45:4535-4542 (Univ. of Alabama - Unres. Grant) Keyword(s): Muller, Insulin-like growth factor

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AMERICAN JOURNAL OF PREVENTIVE MEDICINE

Owsley C, McGwin Jr. G, Phillips JM, McNeal SF, Stalvey BT: **Impact of an Educational Program on the Safety of High-Risk, Visually Impaired, Older Drivers.** Am J Prev Med 2004;26:222-229 (Univ. of Alabama - Unres. Grant and Sr. Scientific Inv. Awd.) Keyword(s): vision impairment, driving

AMERICAN ORTHOPTIC JOURNAL

Vaphiades MS, Roberts BW: **Case Report: Abducens Nerve Palsy from an Occult Hight Flow Carotid Cavernous Fistula.** Am Orthoptic J 2004;54:139-145 (Univ. of Alabama -Unres. Grant) Keyword(s): carotid cavernous fistula

DEVELOPMENTAL BIOLOGY

Ma W, Yan R-T, Wang S-Z: **bHLH Genes *cath5* and *cNSCL1* Promote bFGF-Stimulated RPE Cells to Transdifferentiate Toward Retinal Ganglion Cells.** Dev Biol 2004;265:320-328 (Univ. of Alabama - Unres. Grant and Dolly Green Scholar) Keyword(s): Cell fate; Neuron differentiation; RPE transdifferentiation

DIABETES

Guidry C, Feist R, Morris R, Hardwick CW: **Changes in IGF Activities in Human Diabetic Vitreous.** Diabetes 2004;53:2428-2435 (Univ. of Alabama - Unres. Grant and James S. Adams Scholar) Keyword(s): diabetes, Muller, Insulin-like growth factor

THE JOURNAL

Vaphiades MS: **The Cost of Living in Purgatory's Shadow.** The Journal 2004;101:146-147 (Univ. of Alabama - Unres. Grant) Keyword(s): Wernicke-Korsakoff syndrome.

JOURNAL OF AMERICAN GERITRICS SOCIETY

Owsley C, McGwin Jr. G: **Association Between Visual Attention and Mobility in Older Adults.** JAGS 2004;52:1901-1906 (Univ. of Alabama - Unres. Grant and Sr. Scientific Inv. Awd) Keyword(s): Cataracts

JOURNAL OF COMPARATIVE NEUROLOGY

MacNeil MA, Heussy JK, Dacheux RF, Raviola E, Masland RH: **The Population of Bipolar Cells in the Rabbit Retina.** J Comparative Neuro 2004; 472:73-86 (Univ. of Alabama - Unres. Grant and Sr. Scientific Inv. Awd.) Keyword(s): Bipolar cells

JOURNAL OF NEURO-OPHTHALMOLOGY

Vaphiades MS: **Optic Nerve Enhancement in Hypotensive Ischemic Optic Neuropathy.** J Neuro Ophthalmol 2004;24:235-236 (Univ. of Alabama - Unres. Grant) Keyword(s): Optic Neuropathy

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Ma W, Yan R-T, Xie W, Wang S-Z: **A Role of *ath5* in Inducing *neuroD* and the Photoreceptor Pathway.** J Neurosci 2004;24:7150-7158 (Univ. of Alabama - Unres. Grant and Dolly Green Scholar) Keyword(s): gene, regeneration, photoreceptor, retina

JOURNAL OF REHABILITATION RESEARCH & DEVELOPMENT

Kuyk T, Elliott JL, Wesley J, Scilley K, McIntosh E, Mitchell S, Owsley C: **Mobility Function In Older Veterans Improves After Blind Rehabilitation.** JRRD 2004;41:337-346 (Univ. of Alabama - Unres. Grant and Sr. Scientific Inv. Awd.) Keyword(s): mobility performance, visual function, visual impairment

OPHTHALMIC EPIDEMIOLOGY

Scilley K, DeCarlo DK, Wells J, Owsley C: **Vision-Specific Health-Related Quality Of Life In Age-Related Maculopathy Patients Presenting For Low Vision Services.** Ophthal Epidemio 2004;11:131-146 (Univ. of Alabama - Unres. Grant and Sr. Scientific Inv. Awd.) Keyword(s): Low Vision, cataract, glaucoma, age-related maculopathy

SURVEY OF OPHTHALMOLOGY

Vaphiades MS, Mason J: **Foggy Visual Field Defect.** J Surv Ophthalmol 2004;49:266-267 (Univ. of Alabama -Unres. Grant) Keyword(s): maculopathy

VISUAL NEUROSCIENCE

Zhou C, Dacheux RF: **All Amacrine Cells in the Rabbit Retina Possess AMPA-, NMDA-, GABA-, and Glycine-Activated Currents.** Visual Neurosci 2004;21:181-188 (Univ. of Alabama - Unres. Grant and Jules & Doris Stein Prof.) Keyword(s): Retina

FOREIGN PROFESSIONAL PUBLICATIONS

OPHTHALMOLOGY CLINICS OF NORTH AMERICAN

Vaphiades MS: **Imaging the Neurovisual System.** Ophthalmol Clin N Am 2004;17:465-480 (Univ. of Alabama - Unres. Grant) Keyword(s): neuroimaging

UNIVERSITY OF ARIZONA

INVESTIGATIVE OPHTHALMOLOGY AND VISION SCIENCE

Conley SM, Bruhn RL, Morgan P, and Stamer WD: **Selenium's Effects on MMP-2 and TIMP-1 Secretion by Human Trabecular Meshwork Cells.** Invest Ophthalmol Vis Sci 2004;45:473-479 (Univ. of Arizona - Unres. Grant) Keyword(s): Glaucoma

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Marmorstein AD, Stanton JB, Yocom J, Bakall B, Schiavone MT, Wadelius C, Marmorstein LY, Peachey NS: **A Model of Best Vitelliform Macular Dystrophy in Rats.** Invest Ophthalmol Vis Sci 2004;45:3733-3739 (Univ. of Arizona – Unres. Grant) Keyword(s): AMD

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CURRENT EYE RESEARCH

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JOURNAL OF BIOLOGICAL CHEMISTRY

Klenotic P, Munier FL, Marmorstein LY, Anand-Apte B: **Tissue Inhibitor of Metalloproteinases-3 (TIMP-3) Is a Binding Partner of EGF-Containing Fibulin-Like Extracellular Matrix Protein 1 (EFEMP1): Implications for Macular Degenerations.** J Biol Chem 2004;279:30469-30473 (Univ. of Arizona – Unres. Grant and Career Development Awd.)
Keyword(s): AMD

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Proukakakis C, Cross H, Patel H, Patton MA, Valentine A, Crosby AH: **Toyer Syndrome Revisited. A Clinical and Radiological Study of a Complicated Hereditary Spastic Paraplegia.** J Neurol 2004;251:1105-1110 (Univ. of Arizona - Unres. Grant) Keyword(s): Optic Neuropathy

JOURNAL OF NEUROPHYSIOLOGY

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Keyword(s): AMD

MOLECULAR VISION

Wu J, Marmorstein AD, Kofuji P, Peachey NS: **Contribution of Kir4.1 in the Mouse Electroretinogram.** Mol Vis 2004;10:650-654 (Univ. of Arizona – Unres. Grant) Keyword(s): AMD, Pediatric, Retinitis Pigmentosa

OPHTHALMIC GENETICS

Marmorstein LY: **Association of EFEMP1 with Malattia Leventinese and Age-Related Macular Degeneration: a Mini-Review.** Ophthalmic Genet 2004;25:219-226 (Univ. of Arizona – Unres. Grant and Career Development Awd.) Keyword(s): AMD

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VISION RESEARCH

Harvey DM, Dobson V, Miller JM, Sherrill DL: **Treatment of Astigmatism-Related Amblyopia in 3- to 5-year-old Children.** Vis Res 2004;44:1623-1634 (Univ. of Arizona – Unres. Grant) Keyword(s): Amblyopia, Pediatrics

UNIVERSITY OF ARKANSAS

AMERICAN JOURNAL OF OPHTHALMOLOGY

Brodsky MC, Fray KJ: **Positive Angle Kappa: A Sign of Albinism in Patients With Congenital Nystagmus.** Am J Ophthalmol 2004;137:625-629 (Univ. of Arkansas – Unres. Grant) Keyword(s): Strabismus

ARCHIVES OF OPHTHALMOLOGY

Brodsky MC, Atreides SA, Fowlkes JL, Sundin OH: **Optic Nerve Aplasia in an Infant With Congenital Hypopituitarism and Posterior Pituitary Ectopia.** Arch Ophthalmol 2004;122:125-126 (Univ. of Arkansas – Unres. Grant) Keyword(s): Pediatric

Brodsky MC, Tusa RJ: **Latent Nystagmus.** Arch Ophthalmol 2004;122:202-209 (Univ. of Arkansas – Unres. Grant) Keyword(s): Strabismus

Flynn SB, Cannon TC, Schmucker T Davis R Westfall C: **Orbital Foreign Body.** Arch Ophthalmol 2004;122:296-297 (Univ. of Arkansas – Unres. Grant) Keyword(s): Other: Foreign Body

Kniestedt C, Landau K, Brodsky MC, North P, Waner M: **Infantile Orofacial Hemangioma with Ipsilateral Peripapillary Excavation in Girls: A Variant of the PHACE Syndrome.** Arch Ophthalmol 2004;122:413-415 (Univ. of Arkansas – Unres. Grant) Keyword(s): Pediatric

OTHER PROFESSIONAL PUBLICATIONS

ARCHIVES OF VIROLOGY

Dix RD, Ekworomadu CO, Hernandez E, Cousins SW: **Perforin Knockout Mice, but Not Mice with MAIDS, Show Protection Against Experimental Cytomegalovirus Retinitis After Adoptive Transfer of Immune Cells with a Functional Perforin Cytotoxic Pathway.** Arch Virol 2004;149:2235-2244 (Univ. of Arkansas – Unres. Grant) Keyword(s): Retina & Retinal Diseases

CURRENT HIV RESEARCH

Dix RD, Cousins SW: **Interleukin-2 Immunotherapy and AIDS-related Cytomegalovirus Retinitis.** Curr HIV Res 2004;2:333-342 (Univ. of Arkansas – Unres. Grant) Keyword(s): Retina & Retinal Diseases

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Flynn SB, Phillips PH, Cannon TC, Schmucker T, Davis RL: **Carcinomatous Optic Neuropathy**. Journal 2004;100:298-299 (Univ. of Arkansas – Unres. Grant) Keyword(s): Optic Neuropathy

JOURNAL OF NEUROPSYIOLOGY

Syed M, Lee S, He S, Zhou ZJ: **Spontaneous Waves in the Ventricular Zone of Developing Mammalian Retina**. J Neurophysio 2004;91:1999-2009 (Univ. of Arkansas – Unres. Grant) Keyword(s): Retina & Retinal Diseases

THE JOURNAL OF PHYSIOLOGY

Syed M, Lee S, Zheng J, Zhou ZJ: **Stage-dependent Dynamics and Modulation of Spontaneous Waves in the Developing Rabbit Retina**. J Physiol 2004;560:533-549 (Univ. of Arkansas – Unres. Grant) Keyword(s): Retina & Retinal Diseases

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BMC PHARMACOLOGY

Garg TK, Chang JY: **15-deoxy-delta 12, 14-Prostaglandin J² Prevents Reactive Oxygen Species Generation and Mitochondrial Membrane Depolarization Induced by Oxidative Stress**. BMC Pharmacology 2004;4:6 (Univ. of Arkansas – Unres. Grant) Keyword(s): AMD

BRITISH JOURNAL OF OPHTHALMOLOGY

Brodsky MC, Jenkins R, Nucci P: **Unexplained Head Tilt Following Surgical Treatment of Congenital Estropia: a Postural Manifestation of Dissociated Vertical divergence**. Br J Ophthalmol 2004;88:268-272 (Univ. of Arkansas – Unres. Grant) Keyword(s): Strabismus

CURRENT EYE RESEARCH

Dix RD, Cousins SW: **AIDS-related Cytomegalovirus Retinitis: Lessons from the Laboratory**. Curr Eye Res 2004;29:91-101 (Univ. of Arkansas – Unres. Grant) Keyword(s): Retina & Retinal Diseases

Dix RD, Cousins SW: **Susceptibility to Murine Cytomegalovirus Retinitis During Progression of MAIDS: Correlation with Intraocular Levels of Tumor Necrosis Factor- α and Interferon- γ** . Curr Eye Res 2004;29:173-180 (Univ. of Arkansas – Unres. Grant) Keyword(s): Retina & Retinal Diseases

NEURON

Zheng J, Lee S, Zhou ZJ: **A Developmental Switch in the Excitability and Function of the Starburst Network in the Mammalian Retina.** Neuron 2004;44:1-20 (Univ. of Arkansas – Unres. Grant) Keyword(s): Retina & Retinal Diseases

NEUROSCIENCE

Casini G, Dal Monte M, Fornai L, Bosco L, Willems D, Yang Q, Zhou ZJ, Bagnoli P: **Neurokinin 1 Receptor Expression and Substance P Physiological Actions are Developmentally Regulated in the Rabbit Retina.** Neurosci 2004;124:147-160 (Univ. of Arkansas – Unres. Grant) Keyword(s): Retina & Retinal Diseases

BAYLOR COLLEGE OF MEDICINE

AMERICAN JOURNAL OF OPHTHALMOLOGY

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De Paiva CS, Pflugfelder SC: **Corneal Epitheliopathy of Dry Eye Induces Hyperesthesia to Mechanical Air Jet Stimulation.** Am J Ophthalmol 2004;137:109-115 (Baylor College – Unres. Grant) Keyword(s): Dry Eye

Pflugfelder SC: **Antiinflammatory Therapy for Dry Eye.** Am J Ophthalmol 2004;137:337-342 (Baylor College – Unres. Grant) Keyword(s): Dry Eye

Hussein MAW, Coats DK, Paysse EA: **Use of the RetCam 120 for Fundus Evaluation in Uncooperative Children.** Am J Ophthalmol 2004;137:354-355 (Baylor College - Unres. Grant) Keyword(s): Pediatrics

Jackson DW, Paysse EA, Wilhelmus KR, Hussein MAW, Rosby G, Coats DK: **The Effect of Off-the-Visual-Axis Retinoscopy on Objective Refractive Measurement.** Am J Ophthalmol. 2004;137:1101-1104 (Baylor College – Unres. Grant) Keyword(s): Pediatrics

Paysse EA, Hamill MB, Hussein MAW, Koch DD: **Photorefractive Keratectomy for Pediatric Anisometropia: Safety and Impact on Refractive Error, Visual Acuity, and Stereopsis.** Am J Ophthalmol 2004;138:70-78 (Baylor College – Unres. Grant) Keyword(s): Pediatrics

Park P, Khawly JA, Kearney DL, Altman CA, Yen KG: **Bilateral Endogenous Endophthalmitis Secondary to Endocarditis with Negative Transesophageal Echocardiogram.** Am J Ophthalmol 2004;138:151-153 (Baylor College – Unres. Grant) Keyword(s): Pediatrics

Chong E-M, Wilhelmus KR, Matoba AY, Jones DB, Coats DK, Paysse EA: **Herpes Simplex Virus Keratitis in Children.** Am J Ophthalmol 2004;138:474-475 (Baylor College – Unres. Grant and Sr. Scientific Inv. Awd.) Keyword(s): Pediatric

Hussein MAW, Paysse EA, Bell NP, Coats DK, Brady-McCreery KM, Koch DD, Orengo-Nania S, Baskin D, Wilhelmus KR: **Corneal Thickness in Children.** Am J Ophthalmol 2004;138:744-748 (Baylor College – Unres. Grant) Keyword(s): Pediatrics

Lin A, Foroozan R, Carrier D, Yen MT: **Diagnosis of Metastatic Carcinoma to Cavernous Sinus by Computed Tomography-Guided Fine-Needle Aspiration.** Am J Ophthalmol 2004;138:864-866 (Baylor College – Unres. Grant) Keyword(s): Other - Diagnostics

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Chávez-Barríos P, Font RL: **Pigmented Conjunctival Lesions as Initial Manifestation of Ochronosis.** Arch Ophthalmol 2004;122:1060-1063 (Baylor College – Unres. Grant and Sr. Scientific Inv. Awd.) Keyword(s): Other Ocular Pathology

INVESTIGATIVE OPHTHALMOLOGY AND VISUAL SCIENCE

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Li D-Q, Chen Z, Song XJ, Luo L, Pflugfelder SC: **Stimulation of Matrix Metalloproteinases by Hyperosmolarity via a JNK Pathway in Human Corneal Epithelial Cells.** Invest Ophthalmol Vis Sci 2004;45:4302-4311 (Baylor College – Unres. Grant) Keyword(s): Dry Eye

OPHTHALMOLOGY

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Coats DK, Miller AM, Brady McCreery KM, Holz ER, Paysse EA: **Involvement of Threshold Retinopathy of Prematurity after Diode Laser Photocoagulation.** Ophthalmology 2004;111:1894-1898 (Baylor College – Unres. Grant) Keyword(s): Pediatric

OTHER PROFESSIONAL PUBLICATIONS

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Li A, Jiao X, Munier FL, Schorderet DF, Yao W, Iwata F, Hayakawa M, Kanai A, Chen MS, Lewis RA, Heckenlively J, Weleber RG, Traboulsi EI, Zhang Q, Xiao X, Kaiser-Kupfer M, Sergeev YV, Fielding Hejtmancik J: **Bietti Crystalline Corneoretinal Dystrophy is Caused by Mutations in the Novel Gene CYP4V2.** Am J Hum Genet 2004;74:817-826 (Baylor College, Univ. of Michigan and Oregon Health & Science Univ. – Unres. Grants and Sr. Scientific Inv. Awd.) Keyword(s): Retinal and Retinal Diseases

AMERICAN JOURNAL OF MEDICAL GENETICS

Moretti P, Blazo M, Garcia L, Armstrong D, Lewis RA, Roa B, Scaglia F: **Spinocerebellar Ataxia Type 2 (SCA2) Presenting with Ophthalmoplegia and Developmental Delay in Infancy.** Am J Med Genetics 2004;124A:392-396 (Baylor College – Unres. Grant and Sr. Scientific Inv. Awd.) Keyword(s): Pediatric

Blazo MA, Lewis RA, Chintagumpala MM, Frazier M, McCluggage C, Plon SE: **Outcomes of Systematic Screening For Optic Pathway Tumors in Children With Neurofibromatosis Type 1.** Am J Med Genetics 2004;127A:224-229 (Baylor College – Unres. Grant and Sr. Scientific Inv. Awd.) Keyword(s): Pediatric

BINOCULAR VISION AND STRABISMUS QUARTERLY

Kim D-S, Coats DK, McCreery KM, Paysse EA, Wilhelmus KR: **Accuracy of Clinical Estimation of Abnormal Head Postures.** Binocular Vis Strabismus Quart 2004;19:21-24 (Baylor College – Unres. Grant) Keyword(s): Pediatric

CORNEA

Wilhelmus KR, Schlech BA: **Clinical and Epidemiological Advantages of Culturing Bacterial Keratitis.** Cornea 2004;23:38-42 (Baylor College – Unres. Grant and Sr. Scientific Inv. Awd.) Keyword(s): Cornea

Wilhelmus KR, Sugar J, Hyndiuk RA, Stulting RD: **Corneal Thickness Changes During Herpes Simplex Virus Disciform Keratitis.** Cornea 2004;23:154-157 (Baylor College, Medical College of Wisconsin, Emory Univ. and Univ. of Illinois – Unres. Grants and Sr. Scientific Inv. Awd.) Keyword(s): Cornea

Hanna CL, Roberts RT, CEBT, Hwang S-J, Wilhelmus KR: **Pachymetry of Donor Corneas; Effect of Ethnicity and Gender on Central Corneal thickness.** Cornea 2004;23:701-703 (Baylor College – Unres. Grant) Keyword(s): Cornea

CURRENT OPINION IN OPHTHALMOLOGY

Yeh S, Foroozan R: **Orbital apex Syndrome**. Curr Opinion in Ophthalmol 2004;15:490-498 (Baylor College – Unres. Grant) Keyword(s): Optic Neuropathy

JOURNAL OF AMERICAN ASSOCIATION FOR PEDIATRIC OPHTHALMOLOGY AND STRABISMUS

Paysse EA, Camejo L, Hussein MAW, Coats DK: **Parent-Administered Visual Acuity Testing: Is It Reliable and Can It Improve Office Efficiency?** J AAPOS 2004;8:332-337 (Baylor College – Unres. Grant) Keyword(s): Pediatric

Hussein MAW, Coats DK, Muthialu A, Cohen E, Paysse EA: **Risk Factors for Treatment Failure of Anisometropic Amblyopia**. J AAPOS 2004;8:429-434 (Baylor College – Unres. Grant) Keyword(s): Pediatric

JOURNAL OF CATARACT AND REFRACTIVE SURGERY

Wilhelmus KR: **Beyond the P I: Problems with Probability**. J Cat Ref Surg 2004;30:1-2 (Baylor College – Unres. Grant and Sr. Scientific Inv. Awd.) Keyword(s): Other - Statistics

Wang L, Swami A, Koch DD: **Peripheral Corneal Relaxing Incisions After Excimer Laser Refractive Surgery**. J Cat Ref Surg 2004;30:1038-1044 (Baylor College – Unres. Grant) Keyword(s): Cornea

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