

DOHENY FACULTY PUBLICATIONS 2009

1. Abdallah W, **Fawzi AA**. Anti-VEGF therapy in proliferative diabetic retinopathy. *Int Ophthalmol Clin* 2009;49(2):95-107.
2. Alasil T, Lee N, Keane P, **Sadda S**. Central retinal vein occlusion: a case report and review of the literature. *Cases J* 2009;2:7170 PMID: 2740146.
3. Ameri H, Ratanapakorn T, Ufer S, Eckhardt H, **Humayun MS, Weiland JD**. Toward a wide-field retinal prosthesis. *J Neural Eng* 2009;6(3):035002.
4. Bai S, Liu S, Guo X, Qin Z, Wang B, Li X, Qin Y, **Liu YH**. Proteome analysis of biomarkers in the cerebrospinal fluid of neuromyelitis optica patients. *Mol Vis* 2009;15:1638-48 PMID: 2730746.
5. Basinger BC, Rowley AP, Chen K, **Humayun MS, Weiland JD**. Finite element modeling of retinal prosthesis mechanics. *J Neural Eng* 2009;6(5):55006.
6. Behrend MR, Ahuja AK, **Humayun MS, Weiland JD**, Chow RH. Selective labeling of retinal ganglion cells with calcium indicators by retrograde loading in vitro. *J Neurosci Methods* 2009;179(2):166-72.
7. Browning DJ, Apte RS, Bressler SB, Chalam KV, Danis RP, Davis MD, Kollman C, Qin H, **Sadda S**, Scott IU. Association of the extent of diabetic macular edema as assessed by optical coherence tomography with visual acuity and retinal outcome variables. *Retina* 2009;29(3):300-5 PMID: 2657814.
8. Carelli V, La Morgia C, Valentino ML, Barboni P, Ross-Cisneros FN, **Sadun AA**. Retinal ganglion cell neurodegeneration in mitochondrial inherited disorders. *Biochim Biophys Acta* 2009;1787(5):518-28.
9. Caspi A, Dorn JD, McClure KH, **Humayun MS**, Greenberg RJ, McMahon MJ. Feasibility study of a retinal prosthesis: spatial vision with a 16-electrode implant. *Arch Ophthalmol* 2009;127(4):398-401 NIHMS167232.
10. **Chader GJ, Weiland J, Humayun MS**. Artificial vision: needs, functioning, and testing of a retinal electronic prosthesis. *Prog Brain Res* 2009;175:317-32.
11. Chaplin C, **Borchert MS**, Fink C, Garcia-Filion P, McCulloch DL. Light-adapted electroretinograms in optic nerve hypoplasia. *Doc Ophthalmol* 2009;119(2):123-32.

12. Cho HY, Thomas S, Golden EB, Gaffney KJ, **Hofman FM**, Chen TC, Louie SG, Petasis NA, **Schonthal AH**. Enhanced killing of chemo-resistant breast cancer cells via controlled aggravation of ER stress. *Cancer Lett* 2009;282(1):87-97.
13. **Cotter S**, Kulp M, Scheiman M, Hertle R, Mitchell GL, Rouse M. Response to editorial about the convergence insufficiency treatment trial. *Arch Ophthalmol* 2009;127(9):1229-30; author reply 30-1.
14. **Cotter SA, Tarczy-Hornoch K**, Song E, Lin J, **Borchert M, Azen SP, Varma R**. Fixation preference and visual acuity testing in a population-based cohort of preschool children with amblyopia risk factors. *Ophthalmology* 2009;116(1):145-53 PMID: 2699252.
15. Cui Y, Shao H, Lan C, Nian H, O'Brien RL, Born WK, Kaplan HJ, **Sun D**. Major role of gamma delta T cells in the generation of IL-17+ uveitogenic T cells. *J Immunol* 2009;183(1):560-7 NIHMSID # 169187.
16. Cui Y, Shao H, **Sun D**, Kaplan HJ. Regulation of interphotoreceptor retinoid-binding protein (IRBP)-specific Th1 and Th17 cells in anterior chamber-associated immune deviation (ACAID). *Invest Ophthalmol Vis Sci* 2009;50(12):5811-7 NIHMSID # 169189.
17. Daoud YJ, Hutchinson A, Wallace DK, **Song J**, Kim T. Refractive surgery in children: treatment options, outcomes, and controversies. *Am J Ophthalmol* 2009;147(4):573-82 e2.
18. Davis JN, Kelly LA, Lane CJ, Ventura EE, Byrd-Williams CE, Alexandar KA, **Azen SP**, Chou CP, Spruijt-Metz D, Weigensberg MJ, Berhane K, Goran MI. Randomized control trial to improve adiposity and insulin resistance in overweight Latino adolescents. *Obesity* (Silver Spring) 2009;17(8):1542-8.
19. de Saint Jean M, Nakamura T, Wang Y, **Trousdale MD, Schechter JE, Mircheff AK**. Suppression of lymphocyte proliferation and regulation of dendritic cell phenotype by soluble mediators from rat lacrimal epithelial cells. *Scand J Immunol* 2009;70(1):53-62 PMID: 2712116.
20. **Elliott D**, Hemeida T. Diabetic traction retinal detachment. *Int Ophthalmol Clin* 2009;49(2):153-65.
21. **Fawzi AA**, Lee NG, **Elliott D, Song J**, Stewart JM. Retinal findings in patients with Alport syndrome: expanding the clinical spectrum. *Br J Ophthalmol* 2009;93(12):1606-11.
22. Fortuna F, Barboni P, Liguori R, Valentino ML, Savini G, Gellera C, Mariotti C, Rizzo G, Tonon C, Manners D, Lodi R, **Sadun AA**, Carelli V. Visual system involvement in patients with Friedreich's ataxia. *Brain* 2009;132(Pt 1):116-23.

23. Gordon GM, Ledee DR, Feuer WJ, **Fini ME**. Cytokines and signaling pathways regulating matrix metalloproteinase-9 (MMP-9) expression in corneal epithelial cells. *J Cell Physiol* 2009;221(2):402-11.
24. Greenbaum E, **Humayun MS**, Sanders CA, Close D, O'Neill HM, Evans BR. Metabolic prosthesis for oxygenation of ischemic tissue. *IEEE Trans Biomed Eng* 2009;56(2):528-31.
25. Greenwald SH, Horsager A, **Humayun MS**, Greenberg RJ, McMahon MJ, Fine I. Brightness as a function of current amplitude in human retinal electrical stimulation. *Invest Ophthalmol Vis Sci* 2009;50(11):5017-25 PMID: PMC2798064.
26. Gregori NZ, Berrocal AM, Gregori G, Murray TG, Knighton RW, Flynn HW, Dubovy S, **Puliafita CA**, Rosenfeld PJ. Macular spectral-domain optical coherence tomography in patients with X linked retinoschisis. *Br J Ophthalmol* 2009;93(3):373-8.
27. Gregori NZ, Rattan GH, Rosenfeld PJ, **Puliafita CA**, Feuer W, Flynn HW, Berrocal AM, Al-Attar L, Dubovy S, Smiddy WE, Schwartz SG, Lee WH, Murray TG. Safety and efficacy of intravitreal bevacizumab (Avastin) for the management of branch and hemiretinal vein occlusion. *Retina* 2009;29(7):913-25.
28. Herbort CP, **Rao NA**, Mochizuki M. International criteria for the diagnosis of ocular sarcoidosis: results of the first International Workshop On Ocular Sarcoidosis (IWOS). *Ocul Immunol Inflamm* 2009;17(3):160-9.
29. Horsager A, Greenwald SH, **Weiland JD**, **Humayun MS**, Greenberg RJ, McMahon MJ, Boynton GM, Fine I. Predicting visual sensitivity in retinal prosthesis patients. *Invest Ophthalmol Vis Sci* 2009;50(4):1483-91 PMID: 2729061.
30. Huang CC, Chen R, Tsui PH, Zhou Q, **Humayun MS**, Shung KK. Measurements of attenuation coefficient for evaluating the hardness of a cataract lens by a high-frequency ultrasonic needle transducer. *Phys Med Biol* 2009;54(19):5981-94.
31. Huang J, Liu X, Wu Z, Lin X, Li M, Dustin L, **Sadda S**. Classification of full-thickness traumatic macular holes by optical coherence tomography. *Retina* 2009;29(3):340-8 NIHMS116737.
32. Huang J, Liu X, Wu Z, **Sadda S**. Flood lamp-induced photic maculopathy in a fashion model. *Clin Experiment Ophthalmol* 2009;37(5):524-5.
33. Huang J, Liu X, Wu Z, Xiao H, Dustin L, **Sadda S**. Macular thickness measurements in normal eyes with time-domain and Fourier-domain optical coherence tomography. *Retina* 2009;29(7):980-7 PMID: 2749962.

34. Ireland DD, Stohlman SA, **Hinton DR**, Kapil P, Silverman RH, Atkinson RA, Bergmann CC. RNase L mediated protection from virus induced demyelination. *PLoS Pathog* 2009;5(10):e1000602 PMID: 2745574.
35. Jabbour MN, Elder JB, Samuelson CG, Khashabi S, **Hofman FM**, Giannotta SL, Liu CY. Aberrant angiogenic characteristics of human brain arteriovenous malformation endothelial cells. *Neurosurgery* 2009;64(1):139-46; discussion 46-8.
36. Jammoul F, Wang Q, Nabbout R, Coriat C, Duboc A, Simonutti M, Dubus E, **Craft CM**, Ye W, Collins SD, Dulac O, Chiron C, Sahel JA, Picaud S. Taurine deficiency is a cause of vigabatrin-induced retinal phototoxicity. *Ann Neurol* 2009;65(1):98-107 PMID: 2665303.
37. Jiang G, Ke Y, **Sun D**, Li H, Ihnen M, Jumblatt MM, Foulks G, Wang Y, Bian Y, Kaplan HJ, Shao H. A new model of experimental autoimmune keratoconjunctivitis sicca (KCS) induced in Lewis rat by the autoantigen Klk1b22. *Invest Ophthalmol Vis Sci* 2009;50(5):2245-54 NIHMSID # 169184.
38. Jiang G, Ke Y, **Sun D**, Wang Y, Kaplan HJ, Shao H. Regulatory role of TLR ligands on the activation of autoreactive T cells by retinal astrocytes. *Invest Ophthalmol Vis Sci* 2009;50(10):4769-76 NIHMSID # 169773.
39. **Jiao S**, Xie Z, Zhang HF, **Puliafito CA**. Simultaneous multimodal imaging with integrated photoacoustic microscopy and optical coherence tomography. *Opt Lett* 2009;34(19):2961-3.
40. Jivrajka RV, Kim JK, Fink W, **Sadun AA**, Sebag J. Quantitative analysis of central visual field defects in macular edema using three-dimensional computer-automated threshold Amsler grid testing. *Graefes Arch Clin Exp Ophthalmol* 2009;247(2):165-70.
41. Jung JC, Wang PX, Zhang G, Ezura Y, **Fini ME**, Birk DE. Collagen fibril growth during chicken tendon development: matrix metalloproteinase-2 and its activation. *Cell Tissue Res* 2009;336(1):79-89 PMID: 2746393.
42. Kase S, Parikh JG, **Rao NA**. Expression of alpha-crystallin in retinoblastoma. *Arch Ophthalmol* 2009;127(2):187-92 PMID: 2669080.
43. Kase S, Parikh JG, **Rao NA**. Expression of heat shock protein 27 and alpha-crystallins in human retinoblastoma after chemoreduction. *Br J Ophthalmol* 2009;93(4):541-4.
44. Kashani AH, Keane PA, Dustin L, **Walsh AC**, **Sadda SR**. Quantitative subanalysis of cystoid spaces and outer nuclear layer using optical coherence tomography in age-related macular degeneration. *Invest Ophthalmol Vis Sci* 2009;50(7):3366-73.

45. Ke Y, Jiang G, **Sun D**, Kaplan HJ, Shao H. Retinal Astrocytes respond to IL-17 differently than retinal pigment epithelial cells. *J Leukoc Biol* 2009;86(6):1377-84 PMID: PMC2780918.
46. Ke Y, Liu K, Huang GQ, Cui Y, Kaplan HJ, Shao H, **Sun D**. Anti-inflammatory role of IL-17 in experimental autoimmune uveitis. *J Immunol* 2009;182(5):3183-90 NIHMSID # 169186.
47. Keane PA, **Bhatti RA**, Brubaker JW, Liakopoulos S, **Sadda SR**, **Walsh AC**. Comparison of clinically relevant findings from high-speed fourier-domain and conventional time-domain optical coherence tomography. *Am J Ophthalmol* 2009;148(2):242-8 e1 PMID: 2729434.
48. Keane PA, Chang KT, Liakopoulos S, Jivrajka RV, **Walsh AC**, **Sadda SR**. Effect of ranibizumab retreatment frequency on neurosensory retinal volume in neovascular amd. *Retina* 2009;29(5):592-600.
49. Keane PA, Liakopoulos S, Jivrajka RV, Chang KT, Alasil T, **Walsh AC**, **Sadda SR**. Evaluation of optical coherence tomography retinal thickness parameters for use in clinical trials for neovascular age-related macular degeneration. *Invest Ophthalmol Vis Sci* 2009;50(7):3378-85.
50. Keane PA, Liakopoulos S, **Walsh AC**, **Sadda SR**. Limits of the retinal-mapping program in age-related macular degeneration. *Br J Ophthalmol* 2009;93(2):274-5.
51. Keane PA, Mand PS, Liakopoulos S, **Walsh AC**, **Sadda SR**. Accuracy of retinal thickness measurements obtained with Cirrus optical coherence tomography. *Br J Ophthalmol* 2009;93(11):1461-7.
52. Keane PA, **Sadda SR**. Optical coherence tomography in the diagnosis and management of diabetic retinopathy. *Int Ophthalmol Clin* 2009;49(2):61-74.
53. Kesen MR, Edward DP, **Rao NA**, Sugar J, Tessler HH, Goldstein DA. Atypical infectious nodular scleritis. *Arch Ophthalmol* 2009;127(8):1079-80.
54. Kim YH, He S, Kase S, Kitamura M, **Ryan SJ**, **Hinton DR**. Regulated secretion of complement factor H by RPE and its role in RPE migration. *Graefes Arch Clin Exp Ophthalmol* 2009;247(5):651-9 PMID: 2756295.
55. Kitaoka Y, Hayashi Y, Kumai T, Takeda H, Munemasa Y, Fujino H, Kitaoka Y, Ueno S, **Sadun AA**, Lam TT. Axonal and cell body protection by nicotinamide adenine dinucleotide in tumor necrosis factor-induced optic neuropathy. *J Neuropathol Exp Neurol* 2009;68(8):915-27.
56. Kochounian H, Johnson LV, **Fong HK**. Accumulation of extracellular RGR-d in Bruch's membrane and close association with drusen at intercapillary regions. *Exp Eye Res* 2009;88(6):1129-36 PMID: 2763577.

57. Kulp M, Mitchell GL, Borsting E, Scheiman M, **Cotter S**, Rouse M, Tamkins S, Mohny BG, Toole A, Reuter K. Effectiveness of placebo therapy for maintaining masking in a clinical trial of vergence/accommodative therapy. *Invest Ophthalmol Vis Sci* 2009;50(6):2560-6 PMID: 2759605.
58. Ledee DR, Iovieno A, Miller D, Mandal N, Diaz M, Fell J, **Fini ME**, Alfonso EC. Molecular identification of t4 and t5 genotypes in isolates from acanthamoeba keratitis patients. *J Clin Microbiol* 2009;47(5):1458-62 PMID: PMC2681865.
59. Lee JG, **Kay EP**. Common and distinct pathways for cellular activities in FGF-2 signaling induced by IL-1beta in corneal endothelial cells. *Invest Ophthalmol Vis Sci* 2009;50(5):2067-76 PMID: 2672966.
60. Manny RE, Chandler DL, Scheiman MM, Gwiazda JE, **Cotter SA**, Everett DF, Holmes JM, Hyman LG, Kulp MT, Lyon DW, Marsh-Tootle W, Matta N, Melia BM, Norton TT, Repka MX, Silbert DI, Weissberg EM. Accommodative lag by autorefractometry and two dynamic retinoscopy methods. *Optom Vis Sci* 2009;86(3):233-43 PMID: 2650735.
61. Marsh BC, Cantor LB, Wudunn D, Hoop J, Lipyanik J, Patella VM, Budenz DL, Greenfield DS, Savell J, Schuman JS, **Varma R**. Optic nerve head (ONH) topographic analysis by Stratus OCT in normal subjects: correlation to disc size, age, and ethnicity. *J Glaucoma* 2009.
62. McDonald ML, Wang Y, Selvam S, Nakamura T, Chow RH, **Schechter JE**, **Yiu SC**, **Mircheff AK**. Cytopathology and exocrine dysfunction induced in ex vivo rabbit lacrimal gland acinar cell models by chronic exposure to histamine or serotonin. *Invest Ophthalmol Vis Sci* 2009;50(7):3164-75.
63. Mello-Filho PA, Guven D, Beeley NR, de Juan E, Jr., Erickson SR. Helical intravitreal triamcinolone acetonide implant: a 6-month surgical feasibility study in rabbits. *Ophthalmic Surg Lasers Imaging* 2009;40(2):160-8.
64. **Memarzadeh F**, **Varma R**, Lin LT, Parikh JG, Dustin L, Alcaraz A, **Elliott D**. Postoperative use of bevacizumab as an antifibrotic agent in glaucoma filtration surgery in the rabbit. *Invest Ophthalmol Vis Sci* 2009;50(7):3233-7.
65. Nguyen DT, Fahimi A, **Fink W**, Nazemi PP, Kim JK, **Sadun AA**. Novel 3D computer-automated threshold Amsler grid visual field testing of scotomas in patients with glaucoma. *Eur J Ophthalmol* 2009;19(5):776-82.
66. Oechsler RA, Feilmeier MR, Ledee DR, Miller D, Diaz MR, **Fini ME**, Fell JW, Alfonso EC. Utility of molecular sequence analysis of the ITS rRNA region for identification of *Fusarium* spp. from ocular sources. *Invest Ophthalmol Vis Sci* 2009;50(5):2230-6.

67. Paeng DG, Chang JH, Chen R, **Humayun MS**, Shung KK. Feasibility of rotational scan ultrasound imaging by an angled high frequency transducer for the posterior segment of the eye. *IEEE Trans Ultrason Ferroelectr Freq Control* 2009;56(3):676-80 PMID: 2729172.
68. Pan Y, **Rao NA**. Alopecia areata during etanercept therapy. *Ocul Immunol Inflamm* 2009;17(2):127-9.
69. Pan Y, **Tarczy-Hornoch K**, **Cotter SA**, Wen G, **Borchert MS**, **Azen SP**, **Varma R**. Visual acuity norms in pre-school children: the Multi-Ethnic Pediatric Eye Disease Study. *Optom Vis Sci* 2009;86(6):607-12 PMID: 2742505.
70. Ramos Cdo V, Bellusci C, Savini G, Carbonelli M, Berezovsky A, Tamaki C, Cinoto R, Sacai PY, Moraes-Filho MN, Miura HM, Valentino ML, Iommarini L, De Negri AM, Sadun F, Cortelli P, Montagna P, Salomao SR, **Sadun AA**, Carelli V, Barboni P. Association of optic disc size with development and prognosis of Leber's hereditary optic neuropathy. *Invest Ophthalmol Vis Sci* 2009;50(4):1666-74.
71. Ramos JL, Li Y, **Huang D**. Clinical and research applications of anterior segment optical coherence tomography - a review. *Clin Experiment Ophthalmol* 2009;37(1):81-9 PMID: 2706099.
72. **Rao NA**, Albin TA, Kumaradas M, Pinn ML, Fraig MM, Karakousis PC. Experimental ocular tuberculosis in guinea pigs. *Arch Ophthalmol* 2009;127(9):1162-6.
73. Ray A, Colodetti L, **Weiland JD**, **Hinton DR**, **Humayun MS**, Lee EJ. Immunocytochemical analysis of retinal neurons under electrical stimulation. *Brain Res* 2009;1255:89-97 PMID: PMC2736682.
74. Repka MX, Kraker RT, Beck RW, Birch E, **Cotter SA**, Holmes JM, Hertle RW, Hoover DL, Klimek DL, Marsh-Tootle W, Scheiman MM, Suh DW, Weakley DR. Treatment of severe amblyopia with weekend atropine: results from 2 randomized clinical trials. *J AAPOS* 2009;13(3):258-63 PMID: 2713117.
75. Repka MX, Kraker RT, Beck RW, **Cotter SA**, Holmes JM, Arnold RW, Astle WF, Sala NA, Tien DR. Contrast sensitivity following amblyopia treatment in children. *Arch Ophthalmol* 2009;127(9):1225-7 PMID: 2747105.
76. Richter GM, Chung J, **Azen SP**, **Varma R**. Prevalence of visually significant cataract and factors associated with unmet need for cataract surgery: Los Angeles Latino Eye Study. *Ophthalmology* 2009;116(12):2327-35 PMID: PMC2787839.

77. Richter GM, Sun G, **Lee TC**, Chan RV, Flynn JT, Starren J, Chiang MF. Speed of telemedicine vs ophthalmoscopy for retinopathy of prematurity diagnosis. *Am J Ophthalmol* 2009;148(1):136-42 e2.
78. Rigas PK, Kase S, **Rao NA**. Expression of alpha-crystallins in human sebaceous carcinoma of the eyelid. *Eur J Ophthalmol* 2009;19(5):702-7.
79. Robison CD, Krebs I, Binder S, Barbazetto IA, Kotsolis AI, Yannuzzi LA, **Sadun AA**, Sebag J. Vitreomacular adhesion in active and end-stage age-related macular degeneration. *Am J Ophthalmol* 2009;148(1):79-82 e2.
80. Rouse M, Borsting E, Mitchell GL, **Cotter SA**, Kulp M, Scheiman M, Barnhardt C, Bade A, Yamada T. Validity of the convergence insufficiency symptom survey: a confirmatory study. *Optom Vis Sci* 2009;86(4):357-63
PMCID: PMC2779473.
81. Ruggeri M, Tsechpenakis G, Jiao S, Jockovich ME, Cebulla C, Hernandez E, Murray TG, **Puliafito CA**. Retinal tumor imaging and volume quantification in mouse model using spectral-domain optical coherence tomography. *Opt Express* 2009;17(5):4074-83 PMCID: 2718719.
82. **Sabet-Peyman EJ**, Eberhart CG, Janjua K, Shah SM, Do DV, Nguyen QD. Persistent intermediate uveitis associated with latent manifestation of facial large B-cell non-Hodgkin lymphoma. *Ocul Immunol Inflamm* 2009;17(5):322-4.
83. Sadler TR, Khodavirdi AC, **Hinton DR**, Holschneider DP. Snap-frozen brain tissue sections stored with desiccant at ambient laboratory conditions without chemical fixation are resistant to degradation for a minimum of 6 months. *Appl Immunohistochem Mol Morphol* 2009;17(2):165-71 PMCID: 2742633.
84. Salaroli CHR, Li Y, **Huang D**. High-resolution optical coherence tomography visualization of LASIK flap displacement. *J Cataract Refract Surg* 2009;35(9):1640-2 PMCID: 2765803.
85. Saraswathy S, **Rao NA**. Mitochondrial proteomics in experimental autoimmune uveitis oxidative stress. *Invest Ophthalmol Vis Sci* 2009;50(12):5559-66 NIHMS170150.
86. Savini G, Goto E, Carbonelli M, Barboni P, **Huang D**. Agreement between stratus and visante optical coherence tomography systems in tear meniscus measurements. *Cornea* 2009;28(2):148-51.
87. Scartozzi R, **Chao JR**, **Walsh AC**, Elliott D. Bilateral improvement of persistent diffuse diabetic macular oedema after unilateral intravitreal bevacizumab (Avastin) injection. *Eye* 2009;23(5):1229.

88. Scheiman M, Rouse M, Kulp MT, **Cotter S**, Hertle R, Mitchell GL. Treatment of convergence insufficiency in childhood: a current perspective. *Optom Vis Sci* 2009;86(5):420-8.
89. Seider M, Lujan BJ, Gregori G, Jiao S, Murray TG, **Puliafito CA**. Ultra-high resolution spectral domain optical coherence tomography of traumatic maculopathy. *Ophthalmic Surg Lasers Imaging* 2009;40(5):516-21.
90. Seiler MJ, Aramant RB, Seeliger MW, Bragadottir R, Mahoney M, Narfstrom K. Functional and structural assessment of retinal sheet allograft transplantation in feline hereditary retinal degeneration. *Vet Ophthalmol* 2009;12(3):158-69.
91. Selvam S, Chang WV, Nakamura T, Samant DM, Thomas PB, **Trousdale MD, Mircheff AK, Schechter JE, Yiu SC**. Microporous poly(L-lactic acid) membranes fabricated by polyethylene glycol solvent-cast/particulate leaching technique. *Tissue Eng Part C Methods* 2009;15(3):463-74.
92. Shammas HJ, Hoffer KJ, Shammas MC. Scheimpflug photography keratometry readings for routine intraocular lens power calculation. *J Cataract Refract Surg* 2009;35(2):330-4.
93. Shtir CJ, Marjoram P, Azen S, Conti DV, Le Marchand L, Haiman CA, **Varma R**. Variation in genetic admixture and population structure among Latinos: the Los Angeles Latino Eye Study (LALES). *BMC Genet* 2009;10:71.
94. **Sohn EH**, Francis PJ, Duncan JL, Weleber RG, Saperstein DA, Farrell DF, Stone EM. Phenotypic variability due to a novel Glu292Lys variation in exon 8 of the BEST1 gene causing best macular dystrophy. *Arch Ophthalmol* 2009;127(7):913-20 PMID: 2711525.
95. Song X, Vishnivetskiy SA, Gross OP, Emelianoff K, Mendez A, **Chen J**, Gurevich EV, Burns ME, Gurevich VV. Enhanced arrestin facilitates recovery and protects rods lacking rhodopsin phosphorylation. *Curr Biol* 2009;19(8):700-5 PMID: 2768495.
96. Sonoda S, Spee C, Barron E, **Ryan SJ, Kannan R, Hinton DR**. A protocol for the culture and differentiation of highly polarized human retinal pigment epithelial cells. *Nat Protoc* 2009;4(5):662-73 PMID: 2688697.
97. Sreekumar PG, Ding Y, **Ryan SJ, Kannan R, Hinton DR**. Regulation of thioredoxin by ceramide in retinal pigment epithelial cells. *Exp Eye Res* 2009;88(3):410-7 PMID: 2693936.
98. Sreekumar PG, **Kannan R, Hinton DR**. There are three major families of crystallins: misnaming of alphaB crystallin. *Acta Physiol (Oxf)* 2009;195(4):503; author reply.

99. Stasi K, Ramchandran RS, **Rao NA**, Feldon SE, DiLoreto DA, Jr. Retinal arteriolar spasm during transient monocular visual loss in eosinophilic vasculitis. *J Neuroophthalmol* 2009;29(1):58-61.
100. **Tan O, Chopra V**, Lu AT, Schuman JS, Ishikawa H, Wollstein G, **Varma R, Huang D**. Detection of macular ganglion cell loss in glaucoma by Fourier-domain optical coherence tomography. *Ophthalmology* 2009;116(12):2305-14 e1-2 PMID: PMC2787911.
101. **Tarczy-Hornoch K**. Modified bell retinoscopy: measuring accommodative lag in children. *Optom Vis Sci* 2009;86(12):1337-45 PMID: PMC2806242.
102. Tewari A, **Elliott D**, Singh CN, Garcia-Valenzuela E, Ito Y, Abrams GW. Changes in retinal sensitivity from retained subretinal perfluorocarbon liquid. *Retina* 2009;29(2):248-50.
103. Thomas PB, Samant DM, Zhu Z, Selvam S, Stevenson D, Wang Y, Song SW, **Mircheff AK, Schechter JE, Yiu SC, Trousdale MD**. Long-term topical cyclosporine treatment improves tear production and reduces keratoconjunctivitis in rabbits with induced autoimmune dacryoadenitis. *J Ocul Pharmacol Ther* 2009;25(3):285-92.
104. Trager MJ, Dirani M, Fan Q, Gazzard G, Selvaraj P, Chia A, Wong TY, Young TL, **Varma R**, Saw SM. Testability of vision and refraction in preschoolers: the strabismus, amblyopia, and refractive error study in Singaporean children. *Am J Ophthalmol* 2009;148(2):235-41 e6.
105. Tunc M, Yildirim U, Yuksel H, Cheng X, **Humayun M**, Ratner B. Conjunctival impression cytology by using a thermosensitive adhesive: polymerized N-isopropyl acrylamide. *Cornea* 2009;28(7):770-3.
106. Twelker JD, Mitchell GL, Messer DH, Bhakta R, Jones LA, Mutti DO, **Cotter SA**, Klenstein RN, Manny RE, Zadnik K. Children's Ocular Components and Age, Gender, and Ethnicity. *Optom Vis Sci* 2009;86(8):918-35.
107. Usui Y, Goto H, Sakai J, Takeuchi M, Usui M, **Rao NA**. Presumed Vogt-Koyanagi-Harada disease with unilateral ocular involvement: report of three cases. *Graefes Arch Clin Exp Ophthalmol* 2009;247(8):1127-32.
108. **Varma R**, Hwang LJ, Grunden JW, Bean GW, Sultan MB. Assessing the efficacy of latanoprost vs timolol using an alternate efficacy parameter: the intervisit intraocular pressure range. *Am J Ophthalmol* 2009;148(2):221-6.
109. Vasconcelos-Santos DV, Zierhut M, **Rao NA**. Strengths and weaknesses of diagnostic tools for tuberculous uveitis. *Ocul Immunol Inflamm* 2009;17(5):351-5.

110. Virrey JJ, Golden EB, Sivakumar W, Wang W, Pen L, **Schonthal AH, Hofman FM**, Chen TC. Glioma-associated endothelial cells are chemoresistant to temozolomide. *J Neurooncol* 2009;95(1):13-22.
111. Wang J, **Jiao S**, Ruggeri M, Shousha MA, Chen Q. In situ visualization of tears on contact lens using ultra high resolution optical coherence tomography. *Eye Contact Lens* 2009;35(2):44-9.
112. Wang MY, Nguyen D, Hindoyan N, **Sadun AA**, Sebag J. Vitreo-papillary adhesion in macular hole and macular pucker. *Retina* 2009;29(5):644-50.
113. Wang MY, Ross-Cisneros FN, Aggarwal D, Liang CY, **Sadun AA**. Receptor for advanced glycation end products is upregulated in optic neuropathy of Alzheimer's disease. *Acta Neuropathol* 2009;118(3):381-9 NIHMS170191.
114. Wang Y, Lu A, Gil-Flamer J, Tan O, Izatt JA, **Huang D**. Measurement of total blood flow in the normal human retina using Doppler Fourier-domain optical coherence tomography. *Br J Ophthalmol* 2009;93(5):634-7 PMID: 2743389.
115. Wang YM, Fawzi A, Tan O, Gil-Flamer J, **Huang D**. Retinal blood flow detection in diabetic patients by Doppler Fourier domain optical coherence tomography. *Optics Express* 2009;17(5):4061-73 NIHMS111995.
116. Wroblewski D, **Francis BA, Chopra V**, Kawji AS, **Quiros P**, Dustin L, Massengill RK. Glaucoma detection and evaluation through pattern recognition in standard automated perimetry data. *Graefes Arch Clin Exp Ophthalmol* 2009;247(11):1517-30.
117. Wu Z, Huang J, Dustin L, **Sadda SR**. Signal strength is an important determinant of accuracy of nerve fiber layer thickness measurement by optical coherence tomography. *J Glaucoma* 2009;18(3):213-6 NIHMS116744.
118. Wu ZQ, Huang JJ, **Sadda S**. Signal strength and thickness measurements on optical coherence tomography. *J Glaucoma* 2009;18(6):500-.
119. Xie J, Marchelletta RR, Thomas PB, Jacobs DT, Yarber FA, Cheney RE, **Hamm-Alvarez SF, Trousdale MD**. Transduced viral IL-10 is exocytosed from lacrimal acinar secretory vesicles in a myosin-dependent manner in response to carbachol. *Exp Eye Res* 2009;88(3):467-78 PMID: 2656410.
120. Xie Z, Jiao S, Zhang HF, **Puliafito CA**. Laser-scanning optical-resolution photoacoustic microscopy. *Opt Lett* 2009;34(12):1771-3.
121. Xu XL, Fang Y, **Lee TC**, Forrest D, Gregory-Evans C, Almeida D, Liu A, Jhanwar SC, Abramson DH, Cobrinik D. Retinoblastoma has properties of a

- cone precursor tumor and depends upon cone-specific MDM2 signaling. *Cell* 2009;137(6):1018-31.
122. Yue Z, Zhuang F, Kumar R, Wang I, Cronin SB, **Liu YH**. Cell kinase activity assay based on surface enhanced Raman spectroscopy. *Spectrochim Acta A Mol Biomol Spectrosc* 2009;73(2):226-30 PMID: 2683668.
 123. Zandian M, Belisle R, Mott KR, Nusinowitz S, **Hofman FM**, Ghiasi H. Optic neuritis in different strains of mice by a recombinant HSV-1 expressing murine interleukin-2. *Invest Ophthalmol Vis Sci* 2009;50(7):3275-82.
 124. Zhou C, Wang J, **Jiao S**. Dual channel dual focus optical coherence tomography for imaging accommodation of the eye. *Opt Express* 2009;17(11):8947-55 PMID: 2718716.
 125. Zhou S, Li Y, Lu AT, Liu P, Tang M, **Yiu SC, Huang D**. Reproducibility of tear meniscus measurement by Fourier-domain optical coherence tomography: a pilot study. *Ophthalmic Surg Lasers Imaging* 2009;40(5):442-7 PMID: 2765195.
 126. Zhu D, Wu J, Spee C, **Ryan SJ, Hinton DR**. BMP4 mediates oxidative stress-induced retinal pigment epithelial cell senescence and is overexpressed in age-related macular degeneration. *J Biol Chem* 2009;284(14):9529-39 PMID: 2666605.
 127. Zhuang F, Nguyen MP, Shuler C, **Liu YH**. Analysis of Msx1 and Msx2 transactivation function in the context of the heat shock 70 (Hspa1b) gene promoter. *Biochem Biophys Res Commun* 2009;381(2):241-6 PMID: 2683664.