

DEPARTMENT OF OPHTHALMOLOGY AND VISUAL SCIENCES

Publications (2018)

ARTHURS, Bryan

Bergeron S, Zoroquiain P, Esposito E, Arthurs B, Burnier MN Jr.. Cytokeratin 7 negative and cytokeratin 20 positive orbital metastatic breast carcinoma. *Human Pathology: Case Reports.* June 2018;19-21.

Coblentz J, Park JY, Discepola G, Arthurs B, Burnier MN Jr. Conjunctival Kaposi's sarcoma with orbital extension in an HIV-negative man. *Canadian Journal of Ophthalmology.* Vol 53 no3. June 2018.

BAKER, Curtis

Sun H-C, Baker CL Jr, Kingdom FKK. Simultaneous density contrast and binocular integration. *Journal of Vision,* 18(6):3, 1-12 (2018).

BURNIER, MIGUEL

Bergeron S, Sanft DM, Zoroquiain P, Esposito E Arthurs B, Burnier MN Jr. An Unusual Orbital Tumor in an Adult: Granuloma Annulare. *Am J Ophthalmol Case Rep.* 2018. 13:9-12.

Moreira-Neto CA, Bergeron S, Coblentz J, Zoroquiain P, Maloney S, Mastromonaco C, Esposito E, Romano A, Belfort Neto R, Moreira Jr CA, Burnier JV, Burnier M Jr. Optimizing optical coherence tomography and histopathology correlation in retinal imaging. *CJO.* In Press 2018. Ref: CJO_2018_461_R1.

Miyamoto D, Dias ABT, Aoki V, Burnier MN Jr., Beta-adrenoreceptor expression in pemphigus foliaceus. *J Eur Acad Dermatol Venereol.* 2018. 32(12): e459-61.

Zoroquiain P, Esposito E, Logan P, Aldrees S, Dias ABT, Mansure JJ, Santapau D, Garcia C, Saornil MA, Belfort Neto R, Burnier MN Jr., Programmed cell death ligand 1 expression in tumor and immune cells is associated with better patient outcome and decreased tumor infiltrating lymphocytes in uveal melanoma. *Mod Pathol.* 2018. 31(8): 1201-10.

Zoroquiain P, Mastromonaco C, Balazsi M, Aldrees S, Lasiste J, Saheb N, Burnier MN Jr., Histopathological trabecular meshwork remodeling after cataract surgery detected with an advanced image analyzer. *J Cataract Refract Surg.* 2018. 44(1): 98-102.

Zoroquiain P, Sanft DM, Esposito E, Cheema D, Dias AB, Burnier MN Jr., High inflammatory infiltrate correlates with poor symptomatic improvement after surgical treatment for superior limbic keratoconjunctivitis. *Cornea.* 2018. 37(4): 495-500.

Miyamoto D, Maruta CW, Santi CG, Zoroquiain P, Dias ABT, Mansure JJ, Burnier MN Jr., Aoki V. Exploring the in-situ expression of vascular endothelial growth factor and endoglin in pemphigus foliaceus variants and pemphigus vulgaris. *J Eur Acad Dermatol Venereol.* 2018. 32(11): 1954-8.

Isenberg J, Golizeh M, Belfort RN, da Silva AJ, Burnier MN, Ndao M. Peptidyl-prolyl cis-trans isomerase A - A novel biomarker of multi-episodic (recurrent) ocular toxoplasmosis. *Exp Eye Res.* 2018. 177:104-11.

Mastromonaco C, Balazsi M, Zoroquiain P, Esposito E, Coblenz J, Logan P, Burnier MN. Removing Subjective Post-Mortem Grading from Posterior Capsular Opacification: A New Automated Detector Opacification Software, ADOS. *Curr Eye Res.* 2018; 43(11):1362-8.

Pinto Proenca R, Fernandes J, Burnier MN, Proenca R., Orbital metastasis from an occult breast carcinoma (T0, N1, M1). *BMJ Case Rep.* 2018; bcr-2017-223542.

Andrade GC, Dias JRO, Maia A, Kanecadan LA, Moraes NSB, Belfort Junior R, Lasiste JME, Burnier MN., Intravitreal Angiostrongylus cantonensis: first case report in South America. *Arq Bras Oftalmol.* 2018; 81(1): 63-5.

Book Chapters:

Burnier JV, Mastromonaco C, Lasiste J, Burnier MN., Animal Models in Uveal Melanoma. In: Clinical Ophthalmic Oncology 3rd Edition. Volume 4: Uveal Tumors. Volume Editors: Bertil E Damato & Arun D Singh. Submitted, Springer 2018.

Esposito E, Corredor Casas S, Burnier MN., Patología del melanoma de coroides. In: Manual Práctico de Oftalmología. ISBN 978-9962-717-041. Editor: Dra. Ana Lilia Pérez Balbuena. 2018.

Burnier MN Jr., Zoroquiain P, Esposito E, Corredor Casas S, Logan P, Odashiro AN. Gross Images of the Eye. In: Gao, ZH. Gross Morphology of Human Disease. Brush Education Inc, Edmonton, Canada. – further modifications in 2018.

CHEEMA/Devinder

Zuroquiain, Sanft, Esposito, Cheema, Dias, Burnier “High Inflammatory Infiltrate Correlates with Poor Symptomatic Improvement after surgical treatment of SLK”. *Cornea* 2018 Apr;37 (4) 495-500.

CHEN, John

Chan EW, Eldeeb M, Sun V, Thomas D, Omar A, Kapusta MA, Galic J, Chen JC. Disorganization of Retinal Inner Layers and Ellipsoid Zone Disruption Predict Visual Outcomes in Central Retinal Vein Occlusion. *Ophthalmology Retina* Oct 2018. Manuscript no. ORET_2018_141.

Sun V, Chan EW, Eldeeb M, Chen JC. Combined Central Retinal Artery and Vein Occlusion From a Presumed Arteriovenous Fistula After Retrobulbar Anesthesia. *JAMA Ophthalmol.* 2018;136(11):1307-1309.

Lores-Motta L, Riaz M, Grunin M, Corominas J, van Asten F, Pauper M, Leenders M, Richardson AJ, Muether P, Cree AJ, Griffiths HL, Pham C, Belanger MC, Meester-Smoor MA, Ali M, Heid IM, Fritzsche LG, Chakravarthy U, Gale R, McKibbin M, Inglehearn CF, Schlingemann RO, Omar A, Chen J, Koonekoop RK, Fauser S, Guymer RH, Hoyng CB, de Jong EK, Lotery AJ, Mitchell P, den Hollander AI, Baird PN, Chowers I. Association of Genetic Variants With Response to Anti-Vascular Endothelial Growth Factor Therapy in Age-Related Macular Degeneration. *JAMA Ophthalmol.* 2018 Aug 1; 136(8):857-884.

Ryu CL, Mikhail M, Khan A, Chen JC, Omar A. Macular Telangiectasia Type 2 in an Otherwise Healthy Teenage Boy with Consanguineous Parents. *Retin Cases Brief Rep.* 2018; 12(3):200-203.

Chan WE, Sun V, Chen JC. Frosted Branch Angiitis Associated with Familial Mediterranean Fever. *Ophthalmology Retina* 2018. Issn 2468-6530/18.

DARVISH, Mahshad

Modabber M, Darvish-Zargar M, Breton L, Chung DD, Duong H, Aldave AJ, Choremis J. Crystalline Keratopathy in Post-LASIK Ectasia: A Case Report. *Cornea*. 2018 Dec.

DESCHÈNES, Jean

Fatma Zagaria; Michael Ross; Mash Darvish; Jean Deschenes. Besifloxacin Ophthalmic Suspension in Patients With Bacterial Keratitis: A Prospective, Randomized Clinical Study. *Invest. Ophthalmol. Vis. Sci.* 2018; 59(9):3659.

Nassrallah, Georges & Kondoff, Matthew & Ross, Michael & Deschenes, Jean. Posterior vitreous detachment and incidence of delayed retinal breaks: a retrospective, 2-year study at an academic centre. *Canadian Journal of Ophthalmology*. 2018, 10.1016/j.jcjo.2018.09.002.

Fatma Zagaria; Michael Ross; Mash Darvish; Jean Deschenes. Besifloxacin Ophthalmic Suspension in Patients With Bacterial Keratitis: A Prospective, Randomized Clinical Study. *Invest. Ophthalmol. Vis. Sci.* 2018; 59(9):3659.

Matthew Kondoff, Georges Nassrallah, Michael Ross, Jean Deschenes. Incidence and Outcomes of Retrobulbar Hematoma Diagnosed by CT in Cases of Orbital Fracture. *CJO*, 2018, 707.

Fatma Zagaria, Michael Ross, Mahshad Darvish, Jean Deschênes: Besifloxacin ophthalmic suspension in patients with bacterial keratitis: A prospective, randomized clinical study. *CJO*, 2018.

FARIVAR, Reza

Akhavein H, Dehmoobadsharifabadi A, Farivar R. Magnetoencephalography adaptation reveals depth-cue-invariant object representations in the visual cortex. *J. Vision*, Nov 1;18(12):6. doi: 10.1167/18.12.6.

Lingley AJ, Bowdridge JC, Farivar R, Duffy KR. Mapping of neuron soma size as an effective approach to delineate differences between neural populations. *J Neurosci Methods*. 2018 Jul 1;304:126-135.

HESS, Robert

Reynaud, A, Hess, RF. Interocular correlation sensitivity and its relationship with stereopsis. *Journal of Vision*, 18, 11, 2018.

Baldwin, A, Hess, RF. The mechanism of short-term monocular deprivation is not simple: separate effects on parallel and cross-oriented dichoptic masking *Scientific Reports* volume 8, Article number: 6191, 2018.

Wang J, Feng L, Wang Y, Zhou J, Hess RF. Binocular benefits of optical treatment in anisometropic amblyopia. *Journal of Vision*, 18(4):6, 1–10, 2018.

Reynaud,A, Tang, Y, Zhou, Y., Hess, RF. Second-order visual sensitivity in the aging population. *Aging Clinical and Experimental Research* Aug 28. doi: 10.1007/s40520-018-1018-6, 2018.

Zhou, J, Reynaud, A, Yao, Z, Liu, R, Feng, L, Zhou Y, Hess RF. Amblyopic suppression: passive attenuation, enhanced dichoptic masking by the fellow eye or reduced dichoptic masking by the amblyopic eye? *IOVS* August, Vol.59, 4190-4197, 2018.

Min, SH, Baldwin, AS, Reynaud, A, Hess RF. The shift in ocular dominance from short-term monocular deprivation exhibits no dependence on duration of deprivation. *Scientific Reports*. 20;8(1):17083. doi: 10.1038/s41598-018-35084-1. 2018.

Chadnova, E, Reynaud, A, Clavagnier, S, Baker, D, Baillet, S, Hess, RF. Interocular interaction of contrast and luminance signals in human primary visual cortex. *Neuroimage*, 167:23-30, 2018.

Wang Y, Cui L, He Z, Lin W, Qu J, Lu F, Zhou J, Hess RF. On the relationship between sensory eye dominance and stereopsis in the normal-sighted adult population: normative data. *Front. Hum. Neurosci.* 12, 357, 2018.

Wang J, Feng L, Wang Y, Zhou J, Hess RF. Binocular benefits of optical treatment in anisometropic amblyopia. *Journal of Vision*, 18(4):6, 1–10. 2018.

KAPUSTA, Michael

Chan, Errol & Sun, Vincent & Eldeeb, Mohab & Kapusta, Michael. EPSTEIN-BARR VIRUS ACUTE RETINAL NECROSIS IN AN IMMUNOCOMPETENT HOST. *Retinal Cases & Brief Reports*, (2018).

R. Juncal, Verena & Chow, David & Vilà, Natàlia & Kapusta, Michael & Geoff Williams, R & Kherani, Amin & Berger, Alan. Ocriplasmin versus vitrectomy for the treatment of macular holes. *Canadian Journal of Ophthalmology*. 2018, 53. 10.1016/j.jcjo.2018.01.017.

Chan, Errol & Eldeeb, Mohab & Sun, Vincent & Thomas, Doneal & Omar, Amer & Kapusta, Michael & J. Galic, Ivan & Chen, John. Disorganization of Retinal Inner Layers and Ellipsoid Zone Disruption Predict Visual Outcomes in Central Retinal Vein Occlusion. *Ophthalmology Retina*. 2018, 3. 10.1016/j.oret.2018.07.008.

Salimi, Ali & Vila, Natalia & Kapusta, Michael. AB031. Switching to aflibercept in diabetic macular edema not responding to bevacizumab in a Canadian real-life setting. *Annals of Eye Science*. 2018, 3. AB031-AB031. 10.21037/aes.2018.AB031.

KASNER, Oscar

Bower T, Kasner O, et al. Systemic medication usage in glaucoma patients. *Canadian Journal of Ophthalmology*, 2018:53, 3, 242.

KINGDOM, Frederick

Prins, N, Kingdom, FAA. Applying the model-comparison approach to test specific research hypotheses in psychophysical research using the Palamedes toolbox. *Frontiers in Psychology*. 2018, 9:1250.

Sun, H-C, Baker, C. L. Jr., Kingdom, FAA. Simultaneous density contrast and binocular integration. *Journal of Vision*. 2018, 18(6):3, 1-12.

Kingdom, FAA, Jennings, BJ, Georgeson, MA. Adaptation to interocular difference. *Journal of Vision*. 2018, 18(5):9, 1-11.

KOENEKOOP, Robert

Koenekoop RK Invited editorial by Dr. Neil Bressler. Revisiting congenital stationary nightblindness in the molecular era. Comments on Utz *et al* in this issue entitled: *TRPM1 associated channelopathy in children: Is Congenital Stationary Night Blindness a misnomer?* *JAMA Ophthalmology, Journal of the American Medical Association.* 2018, Mar 8.

Ibrahim MT, Alarcon-Martinez T, Lopez I, Fajardo N, Chiang J, Koenekoop RK. A complete, homozygous *CRX* deletion causing nullizygosity is a new genetic mechanism for Leber congenital amaurosis. *Scientific Reports*, 2018, Mar 22;8(1):5034.

Burkard M, Kohl S, Krätzig T, Tanimoto N, Brennenstuhl C, Bausch AE, Junger K, Reuter P, Sothilingam V, Beck SC, Huber G, Ding XQ, Mayer AK, Baumann B, Weisschuh N, Zobor D, Hahn GA, Kellner U, Venturelli S, Becirovic E, Charbel Issa P, Koenekoop RK, Rudolph G, Heckenlively J, Sieving P, Weleber RG, Hamel C, Zong X, Biel M, Lukowski R, Seeliger MW, Michalakis S, Wissinger B, Ruth P. Accessory heterozygous mutations in cone photoreceptor CNGA3 exacerbate CNG channel-associated retinopathy. *Journal of Clinical Investigations* 2018 Dec 3;128(12):5663-5675.

Lorés-Motta L, Riaz M, Grunin M, Corominas J, van Asten F, Pauper M, Leenders M, Richardson AJ, Muether P, Cree AJ, Griffiths HL, Pham C, Belanger MC, Meester-Smoor MA, Ali M, Heid IM, Fritsche LG, Chakravarthy U, Gale R, McKibbin M, Inglehearn CF, Schlingemann RO, Omar A, Chen J, Koenekoop RK, Fauser S, Guymer RH, Hoyng CB, de Jong EK, Lotery AJ, Mitchell P, den Hollander AI, Baird PN, Chowers I. Association of Genetic Variants With Response to Anti-Vascular Endothelial Growth Factor Therapy in Age-Related Macular Degeneration. *JAMA Ophthalmology* 2018 Aug 1;136(8):875-884.

Song JY, Aravand P, Nikonorov S, Leo L, Lyubarsky A, Bennicelli JL, Pan J, Wei Z, Shpylchak I, Herrera P, Bennett DJ, Commins N, Maguire AM, Pham J, den Hollander AI, Cremers FPM, Koenekoop RK, Roepman R, Nishina P, Zhou S, Pan W, Ying GS, Aleman TS, de Melo J, McNamara I, Sun J, Mills J, Bennett J. Amelioration of Neurosensory Structure and Function in Animal and Cellular Models of a Congenital Blindness. *Molecular Therapy* 2018 Jun; 26(6): 1581-1593.

LACHAPELLE, Pierre

Gauvin M, Dorfman AL, Lachapelle P. Recording and Analysis of the Human Clinical Electroretinogram. *Methods Mol Biol.* 2018;1715:313-325. doi: 10.1007/978-1-4939-7522-8_23.

Della A, Benlarbi M, Hammou I, Gammoudi N, Dogui M, Messaoud R, Azaiz R, Charfeddine R, Khairallah M, Lachapelle P, Ben Chaouacha-Chekhir R. Electoretinographic evidence suggesting that the type 2 diabetic retinopathy of the sand rat *Psammomys obesus* is comparable to that of humans. *PLoS One.* 2018 Feb 8;13(2):e0192400. doi: 10.1371/journal.pone.0192400. eCollection 2018.

Chaychi S, Polosa A, Chemtob S, Lachapelle P. Evaluating the neuroprotective effect of 17 β -estradiol in rodent models of oxidative retinopathies. *Doc Ophthalmol.* 2018 Dec;137(3):151-168. doi: 10.1007/s10633-018-9658-6. Epub 2018 Oct 27. PMID: 30368631

LEVIN, Leonard

Janus DA, Lieven CJ, Crowe ME, Levin LA. Polyester-based microdisc systems for sustained release of neuroprotective phosphine-borane complexes. *Pharmaceutical development and technology*. 2018; 23(9):882-889.

Lawlor M, Danesh-Meyer H, Levin LA, Davagnanam I, De Vita E, Plant GT. Glaucoma and the brain: Trans-synaptic degeneration, structural change, and implications for neuroprotection. *Survey of ophthalmology*. 2018; 63(3):296-306.

Chan W, Almasieh M, Catrinescu MM, Levin LA. Cobalamin-Associated Superoxide Scavenging in Neuronal Cells Is a Potential Mechanism for Vitamin B12-Deprivation Optic Neuropathy. *The American journal of pathology*. 2018; 188(1):160-172.

Levin LA. Neuroprotection in neuro-ophthalmology. *Asia-Pacific J Ophthalmology*, 7:246-250, 2018.

MENDOLA, Janine

Mendola J.D, Lam, J, Rosenstein, M., Lewis LB., & Shmuel A. Retinotopically organized resting-state functional connectivity of human visual cortex in amblyopia. *Neuroimage Clin*. 2018 Jan 31;18:192-201. doi: 10.1016/j.nicl.2018.01.022.

MULLEN, Kathy

McIlhagga, WH, Mullen, KT. Evidence for chromatic edge detectors in human vision using classification images. *Journal of Vision*, 18(8):0, 1-17. (2018).
<https://jov.arvojournals.org/article.aspx?articleid=2702079>

OLIVER, Karen

Erika Massicotte, Salima Hassanaly, Marie-Lyne Bélair, Karin Oliver, Eric Fortin. Long-term outcomes in a series of idiopathic retinal vasculitis, aneurysms, and neuroretinitis (IRVAN) syndrome Canadian Journal of Ophthalmology: October 2018;53(5).

SAHEB, Hady

Popovic M, Campos-Moller X, Saheb H, Ahmed IIK. Efficacy and Adverse Event Profile of the iStent and iStent Inject Trabecular Micro-bypass for Open-angle Glaucoma: A Meta-analysis. *J Curr Glaucoma Pract*. 2018 May-Aug;12(2):67-84. doi: 10.5005/jp-journals-10008-1248. Epub 2018 Aug 1.

Hutnik C, Crichton A, Ford B, Nicolela M, Shuba L, Birt C, Sogbesan E, Damji KF, Dorey M, Saheb H, Klar N, Guo H, Hodge W. Selective A Randomized, Single-Blind, Equivalence Clinical Trial. *Ophthalmology*. 2019 Feb;126(2):223-232. doi: 10.1016/j.ophtha.2018.09.037. Epub 2018 Sep 29

Hutnik C, Crichton A, Ford B, Nicolela M, Shuba L, Birt C, Sogbesan E, Damji KF, Dorey M, Saheb H, Klar N, Guo H, Hodge W. Selective Laser Trabeculoplasty versus Argon Laser Trabeculoplasty in Glaucoma Patients Treated Previously with 360° Selective Laser Trabeculoplasty: A Randomized, Single-Blind, Equivalence Clinical Trial. *Ophthalmology*. 2019 Feb;126(2):223-232. doi: 10.1016/j.ophtha.2018.09.037. Epub, 2018 Sep 29.

WALLERSTEIN, Avi

Wallerstein A, Bruce Jackson, Jeffrey Chambers, Amir Moezzi. Hugh Lin, Peter A. Simmons. Management of post-LASIK dry eye: a multicenter randomized comparison of a new multi-ingredient artificial tear to carboxymethylcellulose. *Clin Ophthalmol*. Vol 2018;12 pp 839-848

Gauvin M & Wallerstein A (as equal first authors). AstigMATIC: An Automatic Tool for Standard Astigmatism Vector Analysis. *BMC Ophthalmology*. 2018; 18:255.

Wallerstein A, Gauvin M, Cohen M. Response to: WaveLight® Contoura topography-guided planning: contribution of anterior corneal higher-order aberrations and posterior corneal astigmatism to manifest refractive astigmatism. *Clin Ophthalmol*. 2018; 12:1423-1426.