

DEPARTMENT OF OPHTHALMOLOGY

PUBLICATIONS (2013)

ARTHURS, Bryan

Pacheco LF, Fernandes BF, Miyamoto C, Maloney SC, Arthurs B, Burnier Jr MN. Rapid growth of an orbital hemangiopericytoma with atypical histopathological findings. *Clin Ophthalmol.* 2014;8:31-3. doi: 10.2147/OPTH.S47901. Epub 2013 Dec 10

BAKER, Curtis

Zavitz, E., and Baker, C.L. (Jr.): Texture sparseness, but not local phase structure, impairs second-order segmentation. *Vision Research* 91: 45-55 (2013).

Yoonessi, A., and Baker, C.L. (Jr.): Depth perception from dynamic occlusion in motion parallax: Roles of expansion-compression vs. accretion-deletion. *Journal of Vision* 13(12):10,1-16 (2013).

BURNIER, Miguel

Perreira PR, Odashiro AN, Lim LA, Miyamoto C, Blanco PL, Odashiro M, Maloney S, De Souza DF, Burnier MN Jr., Current and emerging treatment options for uveal melanoma. *Clin Ophthalmol.* 7:1669-82, (2013).

Maloney SC, Fernandes BF, Penteado RC, Antecka E, Bravo-Filho V, Sanft DM, Burnier MN Jr., Expression of the metastasis suppressor KAI1 in Uveal Melanoma. *J Ophthalmol.* 2013: 4 pgs.

Logan P, Burnier J, Burnier MN Jr., Vascular endothelial growth factor expression and inhibition in uveal melanoma cell lines. *Ecancermedicalscience*, 7: 336, (2013).

Sebastia R, Ventura MP, Solari HP, Antecka E, Orellana ME, Burnier MN Jr., Immunohistochemical detection of Hsp90 and Ki-67 in pterygium. *Diagn Pathol.* 21; 8:32, (2013).

Nazha B, Granner T, Maloney S, Odashiro AN, Antecka E, Burnier MN Jr., Aberrant nuclear repressor coreceptor 1 localization in human retinoblastoma. *Ophthalmic Res.* 49: 171-6, (2013).

Granner T, Maloney S, Antecka E, Correa JA, Burnier MN Jr., 3,4 dihydroxyphenyl ethanol reduces secretion of angiogenin in human retinal pigment epithelial cells. *Br J Ophthalmol.* 97: 371-4, (2013).

Lecanu L, Yao ZX, McCourt A, Sidahmed el-K, Orellana ME, Burnier MN, Papadopoulos V. Control of hypercholesterolemia and atherosclerosis using the cholesterol

recognition/interaction amino acid sequence of the translocator protein TSPO. *Steroids*. 78: 137-46, (2013).

de Moura LR, Marshall JC, Di Cesare S, Fernandes BF, Antecka E, Burnier MN. The effect of imatinib mesulate on the proliferation, invasive ability, and radiosensitivity of retinoblastoma cell lines. *Eye*, 27: 92-9, (2013).

Maloney SC, Antecka E, Granner T, Fernandes B, Lim LA, Orellana ME, Burnier MN Jr., Expression of SIRT1 in choroidal neovascular membranes. *Retina*, 33: 862-6, (2013).

DESCHENES, Jean

Intraoperative Sonographically Assisted Radioactive Iodine 125 Plaque Brachytherapy for Choroidal Melanoma: Visual Acuity Outcome. Sean Quinlan-Davidson, Tahra Al Mahmoud, George Shenouda, Michael Evans, Magdi Mansour, Chaim Edelstein, Gregory Pond, Jean Deschênes. *Journal of Ultrasound in Medicine: Official Journal of the American Institute of Ultrasound in Medicine* 06; 32(6):995-1001, (2013).

FARIVAR, Reza

Bernardino I., Castelhano J., Farivar R., Silva E.D., Castelo-Branco M. Impaired processing of 3D motion-defined faces in mild cognitive impairment and healthy aging: an fMRI study, *Cerebral Cortex*, (10), 2489-99, (2013).

McNab J.A., Polimeni J.R., Wang R., Augustinack J.C., Fujimoto K., Stevens A., Triantafyllou C., Farivar R., Folkerth R.D., Vanduffel W., Wald L.L. Neural correlates of visual integration in Williams syndrome: gamma oscillation patterns in a model of impaired coherence. *Neuropsychologia*, 7, 1287-95, (2013).

Graewe B., Lemos R., Ferreira C., Santana I., Farivar R., De Weerd P., Castelo-Branco M. Surface based analysis of diffusion orientation for identifying architectonic domains in the in vivo human cortex. *Neuroimage*, (69), 87-100, (2013).

HESS, Robert

Spiegel, D.P., Byblow, W.D., Hess, R. F. & Thompson, B. Anodal Transcranial Direct Current Stimulation Transiently Improves Contrast Sensitivity and Normalizes Visual Cortex Activation in Individuals With Amblyopia. *Neurorehabilitation & Neural Repair*. EPub June 17, (2013).

Zhou, J., Thompson, B. and Hess, R. F. A new form of rapid binocular plasticity in adult with amblyopia. *Scientific Reports* 3(2368): 1-5, (2013).

Reynaud, A., Zhou, J., and Hess, R. F. Stereopsis and mean luminance, *Journal of Vision*, 13(11) 1-11, (2013).

Zhou, J., S. Clavagnier and R. F. Hess. Short-term monocular deprivation strengthens the patched eye's contribution to binocular combination. *Journal of Vision*, 13(5), 12, 11-10 (2013).

Witz, N. and Hess, R. F. Mechanisms underlying global stereopsis in fovea and periphery. *Vision Research*, 87, 10-21, (2013).

Husk, J. S., & Hess, R. F. Global processing of orientation in amblyopia. *Vision Research*, 82, 22-30, (2013).

Clavagnier S., Thompson B. and Hess R.F. Long lasting effects of daily theta burst rTMS sessions in the human amblyopic cortex. *Brain Stimulation*, Apr 28. pii: S1935-861X(13)00094-6. doi:10.1016/j.brs.2013.04.002, (2103), (Epub ahead of print).

Li, J., Hess, R. F., Chan, L. Y. L., Deng, D., Yang, X., Chen, X., Yu, M., and Thompson, B. Quantitative measurement of interocular suppression in anisometropic amblyopia: a case-control study. *J. Ophthalmology*, 120(8), 1672-1680, (2013).

Li, J., Thompson, B., Deng, D., Chan, L. Y. L., Yu, M., & Hess, R. F. Dichoptic training enables the adult amblyopic brain to learn. *Current Biology*, 23(8), 308-309, (2013).

Zhou, J., Huang, P-C, Hess, R. F. Interocular suppression in amblyopia for global orientation processing. *Journal of Vision*, 13(5):19, 1-14, (2013).

Babu, R. J., Clavagnier, S. R., Bobier, W., Thompson, B. & Hess, R. F. The regional extent of suppression: strabismics vs non-strabismics. *IOVS*. 2013 Oct 9;54(10):6585-93, (2013).

Hess, R. F. and Thompson, B. New insights into amblyopia: binocular therapy and non-invasive brain stimulation. *JAPOS*. 2013 Feb;17(1):89-93, (2013).

Li, J., Chan, L., Thompson, B., Yu, M. and Hess, R. F. How best to assess suppression in patients with high anisometropia. *Optometry and Vision Science Optom Vis. Sci.*, 90(2), 47-52, (2013).

Spiegel DP, Li J, Hess RF, Byblow WD, Deng D, Yu M, Thompson B. Transcranial direct current stimulation enhances recovery of stereopsis in adults with amblyopia. *Neurotherapeutics*, Oct;10(4):831-9. doi: 10.1007/s13311-013-0200-y, (2013).

KASNER, Oscar

Canadian Ophthalmologists' Opinions Concerning Complementary and Alternative Medicine (CAM) Use in Glaucoma Bower, Tenlye N.; Muhsen, Sana; Overbury, Olga; Birt, Catherine; Kasner, Oscar. 2013

KINGDOM, Fred

Bell, J., Dickinson, E., Badcock, D. R., & Kingdom, F. A. A. Measuring Sensitivity to Viewpoint Change with and without Stereoscopic Cues. *Journal of Visualised Experiments*(82), e50877. doi: doi:10.3791/508, (2013).

Gheorghiu, E., Bell, J. & Kingdom, F. A. A. Line Orientation Adaptation: Local or Global?

PLoS ONE 8(8): e73307. doi:10.1371/journal.pone.0073307, (2013).

Ouhnana, M., Bell, J., Solomon, J. A. & Kingdom, F. A. A. After-effect of perceived regularity. *Journal of Vision*, 13(8):18, 1-13. (2013).

Bell, J., Kanji, J. & Kingdom, F. A. A. Discrimination of rotated-in-depth curves is facilitated by stereoscopic cues, but curvature is not tuned for stereoscopic depth. *Vision Research*, 77, 14-20, (2013).

Published conference abstracts

Xu, H., Luo, C., Wang, Q., Schyns, P. & Kingdom, F. A. A. Adaptation aftereffect from faces using the bubble technique. *Journal of Vision*, 13(9): 94, (2013).

Ouhnana, M. & Kingdom, F. A. A. Common fate versus cast shadows as influences on perceived motion direction and depth. *Journal of Vision*, 13(9): 820, (2013).

Gheorghiu, E., Bell, J. & Kingdom, F. A. A. Why is the tilt after-effect selective to local but not global luminance-contrast polarity? *Journal of Vision*, 13(9): 712, (2013).

Kingdom, F. A. A. Mach Bands: Contrast normalization? *Journal of Vision*, 13(9): 1146.
Diggiss, C. & Kingdom, F. A. A. (2013). Edge-based versus region-based texture perception: does the task matter? *Journal of Vision*, 13(9): 45, (2013).

KOENEKOOP, Robert

Nishiguchi KM, Tearle RG, Liu YP, Oh EC, Miyake N, Benaglio P, Harper S, Koskineni-Kuendig Venturini G, Sharon D, Koenekoop RK, Nakamura M, Kondo M, Ueno S, Yasuma TR, Beckmann JS, Ikegawa S, Matsumoto N, Terasaki H, Berson EL, Katsanis N, Rivolta C. Whole genome sequencing in patients with retinitis pigmentosa reveals pathogenic DNA structural changes and NEK2 as a new disease gene. *Proc Natl Acad Sci USA*. Oct 1;110(40):16139-44, (2013).

Manes G, Meunier I, Avila-Fernández A, Banfi S, Le Meur G, Zanolonghi X, Corton M, Simonelli F, Brabet P, Labessé G, Audo I, Mohand-Said S, Zeitz C, Sahel JA, Weber M, Dollfus H, Dhaenens CM, Allorge D, De Baere E, Koenekoop RK, Kohl S, Cremers FP, Hollyfield JG, Sénéchal A, Hebrard M, Bocquet B, Ayuso García C, Hamel CP. Mutations in IMPG1 cause vitelliform macular dystrophies. *Am J Hum Genet*. Sep 5;93(3):571-8, (2013).

Mackay DS, Borman AD, Sui R, van den Born LI, Berson EL, Ocaka LA, Davidson AE, Heckenlively JR, Branham K, Ren H, Lopez I, Maria M, Azam M, Henkes A, Blokland E; LCA5 Study Group, Andreasson S, de Baere E, Bennett J, Chader GJ, Berger W, Golovleva I, Greenberg J, den Hollander AJ, Klaver CC, Klevering BJ, Lorenz B, Preising MN, Ramsear R, Roberts L, Roepman R, Rohrschneider K, Wissinger B, Qamar

R, Webster AR, Cremers FP, Moore AT, Koenekoop RK. Screening of a large cohort of leber congenital amaurosis and retinitis pigmentosa patients identifies novel LCA5 mutations and new genotype-phenotype correlations. *Human Mutation*. Nov;34(11):1537-46, (2013).

Wang X, Wang H, Sun V, Tuan HF, Keser V, Wang K, Ren H, Lopez I, Zaneveld JE, Siddiqui S, Bowles S, Khan A, Salvo J, Jacobson SG, Iannaccone A, Wang F, Birch D, Heckenlively JR, Fishman GA, Traboulsi EI, Li Y, Wheaton D, Koenekoop RK, Chen R. Comprehensive molecular diagnosis of 179 Leber congenital amaurosis and juvenile retinitis pigmentosa patients by targeted next generation sequencing. *J Med Genet*. Oct;50(10):674-88, (2013).

Coussa RG, Otto EA, Gee HY, Arthurs P, Ren H, Lopez I, Keser V, Fu Q, Faingold R, Khan A, Schwartzentruber J, Majewski J, Hildebrandt F, Koenekoop RK. WDR19: an ancient, retrograde, intraflagellar ciliary protein is mutated in autosomal recessive retinitis pigmentosa and in Senior-Loken syndrome. *Clin. Genet.* Aug;84(2):150-9, (2013).

Fu Q, Wang F, Wang H, Xu F, Zaneveld JE, Ren H, Keser V, Lopez I, Tuan HF, Salvo JS, Wang X, Zhao L, Wang K, Li Y, Koenekoop RK, Chen R, Sui R. Next-generation sequencing-based molecular diagnosis of a Chinese patient cohort with autosomal recessive retinitis pigmentosa. *Invest Ophthalmol Vis Sci*. Jun 14;54(6):4158-66, (2013).

FP, Klaver CC, den Hollander AI. Maternal uniparental isodisomy of chromosome 6 reveals a TULP1 mutation as a novel cause of cone dysfunction. *Ophthalmology*. Jun;120(6):1239-46, (2013).

McAnany JJ, Genead MA, Walia S, Drack AV, Stone EM, Koenekoop RK, Traboulsi EI, Smith A, Weleber RG, Jacobson SG, Fishman GA. Visual acuity changes in patients with leber congenital amaurosis and mutations in CEP290. *JAMA Ophthalmol*. 2013 Feb;131(2):178-82.

Peluso I, Conte I, Testa F, Dharmalingam G, Pizzo M, Collin RW, Meola N, Barbato S, Mutarelli M, Zivello C, Barbarulo AM, Nigro V, Melone MA; European Retinal Disease Consortium, Simonelli F, Banfi S. Collaborators (11): De Baere E, Koenekoop RK, Leroy BP, Cremers FP, Kohl S, Hamel C, Ayuso C, Wissinger B, Inglehearn C, Toomes C, den Hollander A. The ADAMTS18 gene is responsible for autosomal recessive early onset severe retinal dystrophy. *Orphanet J Rare Dis*. Jan 28;8:16, (2013).

Perrault I, Estrada-Cuzcano A, Lopez I, Kohl S, Li S, Testa F, Zekveld-Vroon R, Wang X, Pomares E, Andorf J, Aboussair N, Banfi S, Delphin N, den Hollander AI, Edelson C, Florijn R, Jean-Pierre M, Leowski C, Megarbane A, Villanueva C, Flores B, Munnich A, Ren H, Zobor D, Bergen A, Chen R, Cremers FP, Gonzalez-Duarte R, Koenekoop RK, Simonelli F, Stone E, Wissinger B, Zhang Q, Kaplan J, Rozet JM. Union makes strength: a worldwide collaborative genetic and clinical study to provide a comprehensive survey

of RD3 mutations and delineate the associated phenotype. PLoS One. 8(1):e51622, (2013).

Asai-Coakwell M, March L, Dai XH, Duval M, Lopez I, French CR, Famulski J, De Baere E, Francis PJ, Sundaresan P, Sauvé Y, Koenekoop RK, Berry FB, Allison WT, Waskiewicz AJ, Lehmann OJ. Contribution of growth differentiation factor 6-dependent cell survival to early-onset retinal dystrophies. Hum Mol Genet. Apr 1;22(7):1432-42, (2013).

LACHAPELLE, Pierre

TREMBLAY S, FAVRET S, BINET F, POLOSA A, CHAYCHI S, LACHAPELLE P, CHEMTOB S, SAPIEHA M. Systemic postnatal inflammatory stress provokes severe abnormalities in developmental angiogenesis and leads to deficits in retinal function. *Invest Ophthalmol Vis Sci.* 54(13):8125-39, (2013).

MENDOLA, Janine

Mendola J.D., Buckthought A. FMRI investigation of monocular pattern rivalry. *Journal of Cognitive Neuroscience*, 25(1):62-73, (2013).

Dawson D.A., Cha K., Lewis L.B., Mendola J.D., Shmuel A. Evaluation and calibration of functional network modeling methods based on known anatomical connections. *Neuroimage*, 67:331-43, (2013).

Mendola J.D. & Fesi J.D. Long-range grouping mechanisms for object perception. *Cognitive Neuroscience. Commentary*. 4(1):46-47, (2013).

Fesi, J.D. & Mendola, J.D. Linking brain to behaviour for the visual perception of figures and objects. *Visual Neuroscience*. Aug 23:1-15, (2013).

Published Abstract

Benrimoh D.A., Buckthought A., Dawson D.A., Shmuel A., Mendola J. D., Neuroimaging of functional connectivity during binocular and monocular rivalry 41th annual meeting of Organization for Human Brain Mapping, (2013).

MULLEN, Kathy

Gheiratmand, M., Meese, T.S. & Mullen, K.T. Blobs versus bars: psychophysical evidence supports two types of orientation response in human color vision. *Journal of Vision*, 13(1): 2, 1-13. doi: 10.1167/13.1.2,(2013). <http://www.journalofvision.org/content/13/1/2.full.pdf>

Brown, B., Feigl,B., Gole, G.A., Mullen, K.T. & Hess, R. F. Assessment of neuroretinal function in a group of functional amblyopes with documented LGN deficits. *Ophthalmic and Physiological Optics*, 33, 138-149, (2013). Link: <http://onlinelibrary.wiley.com/doi/10.1111/opp.12024/full>

Kim, Y.J., Gheiratmand, M. & Mullen, K.T. Cross-orientation masking in human color vision: application of a two-stage model to assess dichoptic and monocular sources of suppression. *Journal of Vision*, 13(6):15, 1-14, (2013).
<http://www.journalofvision.org/content/13/6/15.full.pdf>

Garcia-Suarez, L. & Mullen, K.T. Form and motion processing of second-order stimuli in color vision. *Journal of Vision*, 13(7):10, 1-14, (2013).
<http://www.journalofvision.org/content/13/7/10.full.pdf>

Chappell, M., Potter, Z., Hine, T.J., Mullen, K.T. & Shand, J. Reducing magnocellular processing of various motion trajectories tests single process theories of visual position perception. *Journal of Vision*, 13(10):16, 1-12, (2013). <http://www.journalofvision.org/content/13/10/16.full.pdf>