

Key Publications:

Marotte, L.R., Vidovic, M., Wheeler, E., Jhaveri, S. (2004) Brain-derived neurotrophic factor is expressed in a gradient in the superior colliculus during development of the retinocollicular projection. † Euro. J. Neurosci., in press.

Cornish, EEG, Natoli, RC, Hendrickson, AE and Provis, JM. (2004) Differential distribution of fibroblast growth factor receptors (FGFRs) on foveal cones: FGFR-4 is an early marker of cone photoreceptors Molecular Vision 10 1-4.
<http://www.molvis.org/molvis/v10/al>

Cornish, EEG, Hendrickson, AE and Provis, JM. (2004) Distribution of Short Wavelength Sensitive Cones in Human Fetal and Postnatal Retina: Early Development of Spatial Order and Density Profiles. Vision Research †44: 2019-2026

Sandercoe, T.M., Geller, S., Hendrickson, A.E., Stone, J., Provis, JM (2003) VEGF expression by ganglion cells in central retina before formation of the foveal depression in monkey retina: evidence of developmental hypoxia. J. Comp. Neurol. (in press).

Bravo-Nuevo, A.; Williams, N.; Geller, S., Stone, J.(2003) Mitochondrial Deletions in Normal and degenerating Rat Retina. La Vail, MM.; Hollyfield, JG., and Anderson, GA., editors. Retinal Degenerations. Kluwer Academic Plenum Publishers; (in press) (invited chapter).

Pearce, A.R., Marotte, L.R. †(2003) The first thalamocortical synapses are made in the cortical plate in the developing visual cortex of the wallaby (*Macropus eugenii*). J. Comp. Neurol., 461: 205-216. Top of page

†

Valter, K., van Driel, D, Bisti, S., Stone, J.(2002) FGFR1 expression and FGFR1-FGF-2 colocalisation in rat retina: sites of FGF-2 action on rat photoreceptors. Growth Factors, 20: 177-188

Mervin, K. and Stone, J. (2002) Regulation by Oxygen of Photoreceptor Death in the Developing and Adult C57BL/6J Mouse. Experimental Eye Research. 75(6):715-722.

Stone, J.; Maslim, J.; Fawsi, A.; Lancaster, P., and Heckenlively, J. (2001) The role of perinatal stress in retinitis pigmentosa: evidence from surveys in Australia and the USA. Canadian Journal of Ophthalmology. (36):315-322.

Walsh, N., Valter, K., Stone, J. (2001) Cellular and Subcellular patterns of expression of bFGF and CNTF in the adult rat retina. Exp Eye Res. 72:495-501

Penfold, P.L., Madigan, M.C., Gillies, M. and Provis, JM (2001) Immunological and aetiological aspects of AMD. Progress in Retinal & Eye Research. 20:385-414.

Provis, JM (2001) Development of primate retinal vasculature. Progress in Retinal & Eye Research 20: 799 - 821.

Stubbs, J., Palmer, A., Vidovic, M., Marotte, L.R. (2000) Graded expression of EphA3 in the retina and ephrin-A2 in the superior colliculus during initial development of coarse topography in the wallaby retinocollicular projection. *Euro. J. Neurosci.* 12: 3626-3636.

Zhang, Y.; Porat, R. M.; Alon, T.; Keshet, E., and Stone, J.(1999) Tissue oxygen levels control astrocyte movement and differentiation in developing retina. *Dev Brain Res.* 118:135-145. Top of page

Gargini C, Belfiore MS, Bisti S, Cervetto L, Valter K, Stone, J. (1999) The impact of bFGF on photoreceptor function and morphology. *Invest. Ophthalmol. Vis Sci* 40:2088-2099.

Lewis GP, Mervin K, Valter K, Maslim J, Stone, J., Fisher SK. (1999) Limiting the proliferation and reactivity of retinal Müller cells during detachment: the value of oxygen supplementation. *American Journal of Ophthalmology* 128:165-172.

Mervin K, Valter K, Maslim J, Lewis GP, Fisher SK, Stone, J.(1999) Limiting photoreceptor death and deconstruction during retinal detachment: the value of oxygen supplementation. *American Journal of Ophthalmology* 128:155-164.

Georges, P., Madigan, M.C. and Provis, JM (1999) Apoptosis during development of the human retina: Relationship to foveal development and retinal synaptogenesis. *J. Comp. Neurol.* 413: 198-208

Stone, J., Maslim, J., Valter-Kocsi, K., Mervin, K., Bowers, F., Chu, Y., Barnett, N., Fisher, S.K., Lewis, G., Bisti, S., Gargini, C., Cervetto, L., Merin, S. and Pe'er, J. (1999) Mechanisms of photoreceptor death and survival in mammalian retina. *Progress in Retinal and Eye Research* 18:689-735.

Valter K, Maslim J, Bowers F and Stone, J.(1998) Photoreceptor dystrophy in the RCS rat: roles of oxygen, debris and bFGF. *Invest. Ophthalmol. Vis Sci* 39: 2427-2442.

Maslim, J., Valter, K., Egensperger, R., Hollender, H. and Stone, J. (1997) Tissue oxygen during a critical developmental period controls the death and survival of photoreceptors). *Invest. Ophthalmol. Vis Sci* 38:1667-1677.

Provis, JM, Leech, J., Penfold, P.L., Diaz, C.M., Stone, J. and Keshet, E. (1997) Development of the human retinal vasculature: cellular relations and VEGF expression. *Exp Eye Res.*, 65: 555-568.

Alon, T., I. Hemo, A. Itin, J. Pe'er, Stone, J., and E. Keshet (1995) Vascular endothelial growth factor acts as a survival factor for newly-formed retinal vessels: implications for retinopathy of prematurity. *Nature Medicine* 1: 1024-1028

Stone, J., A. Itin, H. Gnessin, T. Alon, T. Chan-Ling, J. Pe'er & E. Keshet. (1995) Development of retinal vasculature is mediated by hypoxia-induced vascular

endothelial growth factor (VEGF) expression by neuroglia. *Journal of Neuroscience*
15: 4738-4747.