

Original Articles in Peer Reviewed Journals:

1. Famiglietti E.V. Jr. (1970) Dendrodendritic synapses in the lateral geniculate nucleus of the cat. *Brain Res.* 20, 181-191.
2. Famiglietti E.V. Jr. and Peters A. (1972) The synaptic glomerulus and the intrinsic neuron in the dorsal lateral geniculate nucleus of the cat. *J. Comp. Neur.* 144, 285-334.
3. Kolb H. and Famiglietti E.V. Jr. (1974) Rod and cone pathways in the inner plexiform layer of cat retina. *Science* 186, 47-49.
4. Famiglietti E.V. Jr. and Kolb H. (1975) A bistratified amacrine cell and synaptic circuitry in the inner plexiform layer of cat retina. *Brain Res.* 84, 293-300.
5. Famiglietti E.V. Jr. and Kolb H. (1976) Structural basis for ON- and OFF- center responses in retinal ganglion cells. *Science* 194, 193-195.
6. Kolb H. and Famiglietti E.V. Jr. (1976) Rod and cone pathways in the retina of the cat. *Invest. Ophthalmol.* 15, 935-946.
7. Nelson R. Kolb H. Famiglietti E.V. Jr. and Gouras P. (1976) Neural responses in the rod and cone systems of the cat retina: intracellular records and Procion stains. *Invest. Ophthalmol.* 15, 946-953.
8. Famiglietti E.V. Jr. Kaneko A. and Tachibana M. (1977) Neuronal architecture of ON and OFF pathways to ganglion cells in carp retina. *Science* 198, 1267-1268.
9. Nelson R. Famiglietti E.V. Jr. and Kolb H. (1978) Intracellular staining reveals different levels of stratification for On- and Off- center ganglion cells in cat retina. *J. Neurophysiol.*, 41, 472-483.
10. Vaughn J.E. Famiglietti E.V. Jr. Barber R.P. Saito K. Roberts E. and Ribak C.E. (1981) GABAergic amacrine cells in rat retina: immunocytochemical identification and synaptic connectivity. *J. Comp. Neurol.* 197, 113-127.
11. Famiglietti E.V. Jr. and Vaughn J.E. (1981) Golgi-impregnated amacrine cells and GABAergic neurons: a comparison of dendritic, immunocytochemical and histochemical stratification in the inner plexiform layer of rat retina. *J. Comp. Neur.* 197, 129-140.
12. Famiglietti E.V. Jr. (1981) Functional architecture of cone bipolar cells in mammalian retina. *Vision Res.* 21, 1559-1563.
13. Famiglietti E.V. Jr. (1983a) "Starburst" amacrine cells and cholinergic neurons: mirror-symmetric ON and OFF amacrine cells of rabbit retina. *Brain Res.* 261, 138-144.
14. Famiglietti E.V. Jr. (1983b) On and Off pathways through amacrine cells in mammalian retina: the synaptic connections of "starburst" amacrine cells. *Vision Res.* 23, 1265-1279.
15. Famiglietti E.V. (1985) Starburst amacrine cells: morphological constancy and systematic variation in the anisotropic field of rabbit retinal neurons. *J. Neurosci.* 5, 562-577.
16. Famiglietti E.V. and Tumosa, N. (1987) Immunocytochemical staining of cholinergic amacrine cells in rabbit retina, *Brain Res.* 413, 398-403.
17. Famiglietti E.V. (1987) Starburst amacrine cells in cat retina are associated with bistratified, presumed directionally selective, ganglion cells, *Brain Res.* 413, 404-408.
18. Famiglietti E. V. (1990) A new type of wide-field horizontal cell, presumably linked to blue cones, in rabbit retina, *Brain Res.* 535, 174-179.
19. Famiglietti E. V. (1990) A distinct type of displaced ganglion cell in a mammalian retina, *Brain Res.*, 535, 169-173.
20. Famiglietti E. V. (1991) Synaptic organization of starburst amacrine cells in rabbit retina: Analysis of serial thin sections by electron microscopy and graphic reconstruction, *J. Comp. Neur.*, 309, 40-70.
21. Famiglietti E.V. (1992) Polyaxonal amacrine cells of rabbit retina: morphology and stratification of PA1 cells, *J. Comp. Neur.*, 316, 391-405.

22. Famiglietti E.V. (1992) Polyaxonal amacrine cells of rabbit retina: size and distribution of PA1 cells, *J. Comp. Neur.*, 316, 406-421.
23. Famiglietti E.V. (1992) Polyaxonal amacrine cells of rabbit retina: PA2, PA3, and PA4 cells. Light and electron microscopic studies with a functional interpretation, *J. Comp. Neur.*, 316, 422-446.
24. Famiglietti E.V. (1992) New metrics for analysis of dendritic branching patterns demonstrating similarities and differences in ON and ON-OFF directionally selective retinal ganglion cells, *J. Comp. Neur.*, 324, 295-321.
25. Famiglietti E.V. (1992) Dendritic co-stratification of ON and ON-OFF directionally selective ganglion cells with starburst amacrine cells in rabbit retina, *J. Comp. Neur.*, 324, 322-335.
26. Famiglietti E.V. and Sharpe S.J. (1995) Regional topography of rod and immunocytochemically characterized "blue" and "green" cone photoreceptors in rabbit retina, *Visual Neurosci.*, 12, 1151-1175.
27. Berson D.M. Pu M. and Famiglietti E.V. (1998) The zeta cell: a new ganglion cell type in cat retina, *J. Comp. Neur.*, 399, 269-288.
28. Fernandez H.H. Friedman J.H. and Famiglietti E.V. (2000) Probable Cornelia de Lange syndrome with progressive parkinsonism and dystonia, *Movement Disorders*, 15, 749-751.
29. Famiglietti E.V. (2002) A structural basis for omnidirectional connections between starburst amacrine cells and directionally selective ganglion cells in rabbit retina, with associated bipolar cells, *Visual Neurosci.*, 19, 145-162 (with journal cover illustration).
30. Famiglietti E.V. Stopa E.G. McGookin E.D. Song P. LeBlanc V. and Streeten B.W. (2003) Immunocytochemical localization of vascular endothelial growth factor in neurons and glial cells of human retina, *Brain Res.*, 969, 195-204.
31. Famiglietti E.V. (2004) Class I and class II ganglion cells of rabbit retina: a structural basis for X and Y (brisk) cells, *J. Comp. Neur.* 478, 323-346.
32. Famiglietti E.V. (2004) Class I and class II ganglion cells in rabbit retina: quantitative analysis of dendritic branching patterns, *J. Comp. Neur.* 478, 347-358.
33. Famiglietti E.V. (2005) Synaptic organization of "complex" ganglion cells in rabbit retina: type and arrangement of inputs to directional selective and local edge detector cells, *J. Comp. Neur.* 484, 357-391.
34. Famiglietti E.V. (2005) "Small-tufted" ganglion cells and two visual systems for the detection of object motion in rabbit retina, *Visual Neurosci.* 22, 509-534.
35. Famiglietti E.V. (2008) Wide-field cone bipolar cells and the blue-ON pathway to color-coded ganglion cells in rabbit retina, *Visual Neurosci.*, 25, 53-66.
36. Famiglietti E.V. (2009) Bistratified ganglion cells of rabbit retina: Neural architecture for contrast-independent visual responses, *Visual Neurosci.*, 26 (2), 195-213.
37. Famiglietti E.V. and Sharpe S.J. (2010) Development of excitatory and inhibitory neurotransmitters in transitory cholinergic neurons, starburst amacrine cells, and GABAergic amacrine cells of rabbit retina with implications for previsual and visual development of retinal ganglion cells, *Visual Neurosci.*, 27 (1), 19-42.

Review Articles, Books and Book Chapters:

- Kolb H. Famiglietti E.V. Jr. and Nelson R. (1976) Neural connections in the inner plexiform layer of the cat's retina. In: *The Structure of the Eye*. III. E. Yamada and S. Mishima, eds. *Jap. J. Ophthalmol.*, 319-332.
- Kaneko A. Tachibana M. and Famiglietti E.V. Jr. (1978) Rod and cone convergence to carp bipolar cells. In: *Integrative Control Function of the Brain*, I. M. Ito, ed. Kodansha Scientific, Tokyo, pp. 82-84.
- Kaneko A. Famiglietti E.V. Jr. and Tachibana M. (1979) Physiological and morphological identification of signal pathways in the carp retina. In: *Neurobiology of Chemical Transmission*. M. Otsuka and Z.W. Hall, eds. John Wiley and Sons, New York, pp. 235-251.
- Famiglietti E.V. and Tumosa, N. (1986) The organization of cholinergic neurons in rabbit retina. In: *Retinal Signal Systems, Degenerations and Transplants*. E. Agardh and B. Ehinger, Eds. Elsevier, Amsterdam, pp. 37-46.
- Famiglietti E.V. (1988) Structural organization and development of dorsally-directed (vertical) asymmetrical amacrine cells in rabbit retina. In: *Neurobiology of the Inner Retina*. R. Weiler and N. Osborne, Eds. Springer-Verlag, Berlin, pp. 169-180.
- Famiglietti E.V. ON and OFF pathways in vertebrate retina: organization of neural circuitry from photoreceptors to ganglion cells, in preparation.

## PUBLISHED ABSTRACTS

1. Famiglietti E.V. Jr. (1970) Experimental degeneration in the lateral geniculate nucleus of the cat. *Anat. Rec.* 166, 304.
2. Famiglietti E.V. Jr. and Kolb H. (1974) Gap junctions and two varieties of amacrine cell in the retina of the cat. *Anat. Rec.* 178, 353.
3. Kolb H. and Famiglietti E.V. Jr. (1975) Stratification of ganglion cells and their connections in cat retina. *Anat. Rec.* 181, 398-399.
4. Famiglietti E.V. Jr. (1975) Another look at lateral geniculate lamination in the cat. *Soc. Neurosci. Abstr.* 1, 41.
5. Famiglietti E.V. Jr. Kaneko A. and Tachibana M. (1977) Neuronal architecture of ON and OFF pathways in carp retina. *Soc. Neurosci. Abstr.* 3, 559.
6. Famiglietti E.V. Jr. Kaneko A. and Tachibana M. (1978) Rod and cone pathways in carp retina. *Invest. Ophthalmol. (Suppl.)* 17, 110.
7. Famiglietti E.V. Jr. and Siegfried E.S. (1978) The ganglion cells of rabbit retina. *Soc. Neurosci. Abstr.* 4, 627.
8. Vaughn J.E. Barber R.P. Saito K. Roberts E. and Famiglietti E.V. Jr (1978) Immunocytochemical identification of GABAergic neurons in rat retina. *Anat. Rec.* 174, 571-572.
9. Famiglietti E.V. Jr. and Siegfried E.C. (1979) Quantitative analysis of ganglion cells in rabbit retina. *Invest. Ophthalmol. (Suppl.)* 18, 84.
10. Famiglietti E.V. Jr. and Siegfried E.C. (1980) The amacrine cells of rabbit retina. *Invest. Ophthalmol. (Suppl.)* 19, 70-71.
11. Famiglietti E.V. Jr. Brecha N.C. and Karten H.J. (1980) Neural localization of substance P-like immunoreactivity in rabbit retina. *Soc. Neurosci. Abstr.* 6, 212.
12. Famiglietti E.V. Jr. (1981) Starburst amacrines: 2 mirror-symmetrical retinal networks. *Invest. Ophthalmol. (Suppl.)* 20, 204.
13. Famiglietti E.V. Jr. (1981) Displaced amacrine cells of the retina. *Soc. Neurosci. Abstr.* 7, 620.
14. Famiglietti E.V. Jr. (1982) Development and connectivity of putative cholinergic amacrine cells in rabbit retina. *Soc. for Neurosci. Abstr.* 8, 132.

15. Famiglietti E.V. Jr. (1983) Synaptic connections of starburst amacrine cells in rabbit retina. *Invest. Ophthalmol. (Suppl.)* 24, 260.
16. Famiglietti E.V. Jr. (1983) Starburst amacrine cells: internuncial cholinergic neurons selective for ON and OFF pathways to retinal ganglion cells. *Soc. Neurosci. Abstr.* 9, 894.
17. Famiglietti E.V. Jr. (1984) Postnatal development of ganglion cells in rabbit retina. *Soc. Neurosci. Abstr.* 10, 22.
18. Krnjevic', K., Baughman, R., Tauchi, M., Famiglietti, E. Jr., Daw, N. and Masland, R. (1984) Symposium: A cholinergic neuron in the retina. *Soc. Neurosci. Abstr.* 10, 922.
19. Famiglietti E.V. (1985) Growth of ganglion cell dendrites in rabbit retina. *Invest. Ophthalmol. (Suppl.)* 26, 286.
20. Famiglietti E.V. (1985) Synaptic organization of ON-OFF directionally selective ganglion cells in rabbit retina. *Soc. Neurosci. Abstr.* 11, 337.
21. Famiglietti E.V., Tumosa, N., and Barrett, R.P. (1986) Organization of ChAT-immunoreactive neurons in rabbit retina. *Invest. Ophthalmol. (Suppl.)* 27, 184.
22. Famiglietti E.V. and Tumosa, N. (1986) Arrangement of ChAT immunoreactive cholinergic amacrine cells in rabbit retina. *Proc. Int'l. Soc. Eye Res.* IV, 149.
23. Famiglietti E.V. (1987) The ganglion cells of rabbit retina: shape, stratification of dendritic trees, and relationship to cholinergic amacrine cells. *Invest. Ophthalmol. (Suppl.)* 27, 279.
24. Famiglietti E.V. (1987) Morphological classification of ganglion cells in rabbit retina. *Soc. Neurosci. Abstr.* 13, 380.
25. Downing J.E.G., Famiglietti E.V., Ferguson B., and Shaw T.M. (1988) Form of retinal ganglion cells projecting to layers of the superior colliculus. *Soc. Neurosci. Abstr.* 14, 1120.
26. Famiglietti E.V., Rodieck R.W., Simpson J.I., Wässle H., and Daw N.W. (1988) Symposium: Form and synaptic function in retinal ganglion cells. *Soc. Neurosci. Abstr.* 14, 1189.
27. Famiglietti E.V., Downing J.E.G., Ferguson B., and Shaw T.M. (1989) Rabbit retinal ganglion cells project differentially to sublayers of the superior colliculus. *Invest. Ophthalmol. (Suppl.)* 30, 348.
28. Famiglietti E.V. (1989) Polyaxonal amacrine cells of rabbit retina. *Soc. Neurosci. Abstr.* 15, 968.
29. Famiglietti E.V. (1990) Three categories of very wide-field amacrine cells in rabbit retina. *Invest. Ophthalmol. (Suppl.)* 31, 37.
30. Famiglietti E.V. (1990) Displaced ganglion cells of rabbit retina. *Soc. Neurosci. Abstr.* 16, 466.
31. Famiglietti E., Sharpe, S. and Thurlow, G. (1991) Ganglion cell reaction to axonal damage and peripheral nerve graft in rabbit retina. *Invest. Ophthalmol. (Suppl.)* 32, 1133.
32. Famiglietti E., Sharpe, S. and Thurlow, G. (1991) Degenerative and regenerative responses of rabbit retinal ganglion cells to axonal damage and peripheral nerve graft. *Soc. Neurosci. Abstr.* 17, 187.
33. Famiglietti E.V. (1993) A 'bilayer' model of directional selectivity in rabbit retina. *Invest. Ophthalmol. (Suppl.)* 34, 985.
34. Sharpe S.J., Thurlow G.A., and Famiglietti E.V. (1993) Localization of GABA<sub>A</sub> receptor subunit immunoreactivity in rabbit retina. *Soc. Neurosci. Abstr.* 19, 115.
35. Famiglietti E.V. (1993) New lagomorphic perspective on X- and Y-ganglion cells in mammalian retina. *Soc. Neurosci. Abstr.* 19, 1257.
36. Famiglietti E.V. and Sharpe S.J. (1994) Differential topography of immunocytochemically labelled cones in rabbit retina. *Invest. Ophthalmol. (Suppl.)* 35, 2122.
37. Famiglietti E.V. and Sharpe S.J. (1994) Development of ChAT and GAD immunoreactivity in relation to starburst amacrine cells of rabbit retina. *Soc. Neurosci. Abstr.* 20, 729.

38. Berson D.M., Pu, M., and Famiglietti E.V. (1996) The zeta cell: a new ganglion cell type in cat retina, *Invest. Ophthalmol.* 37, S631.
39. Famiglietti E.V., Song P., McGookin E., Streeten B., Kuo-Leblanc V., Baird A., Gonzalez A-M., and Stopa E. (1996) Immunocytochemical localization of vascular endothelial growth factor in neurons and glia of human retina, *Soc. Neurosci. Abstr.* 22, 2017.
40. Famiglietti E.V., Sharpe S.J., Wakabayashi T., Fukuda Y., Kosaka J., and Nathans J.H. (1999) Survival of retinal ganglion cells in organ culture of prenatal mouse retina. *Soc. Neurosci. Abstr.*, 25, 501.
41. Pershadsingh H.A., Benson S.C., Marshall B., Kurtz T.W., Pravenec M., King J.C., Stopa E.G., and Famiglietti E.V. (1999) Ocular diseases and peroxisome proliferator-activated receptor- $\gamma$  (PPAR- $\gamma$ ) in mammalian eye. *Soc. Neurosci. Abstr.* 25, 2193.
42. Famiglietti E.V. (2000) Synaptic organization of rabbit retinal ganglion cells with more complex receptive field properties. *Soc. Neurosci. Abstr.* 26, 1328.