

May, 2012

CURRICULUM VITAE

Edward V. Famiglietti
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Narragansett, RI 02882
Edward_Famiglietti@brown.edu

EDUCATION

Phillips Exeter Academy 1957-1961
Yale University, 1961-1965, B.A., 1965
Boston University, 1965-1972, M.D., 1972
Boston University, 1967-1972, Ph.D., Anatomy (Neuroanatomy), 1972

POSTGRADUATE TRAINING

Fellowship and Laboratory Training:

National Eye Institute, N.I.H.

Laboratory of Vision Research Research Associate (P.H.S.), 1972-1974

Guest Worker, N.E.I. (Postdoctoral Fellow), 1974-1976

Keio University School of Medicine, Tokyo,

Department of Physiology Leopold Schepp Foundation Fellow, 1977

Washington University School of Medicine, St. Louis

Dept. of Physiology and Biophysics Alfred P. Sloan Foundation Fellow, 1977-1979

Residency and Clinical Training:

Brown University and Rhode Island Hospital, Providence

Department of Pathology Residency Training in Anatomic Pathology, 1995-1999

Fellow in Neuropathology, 1995-1999

Johns Hopkins Medical Institutions, Baltimore

Department of Pathology Visiting Fellow: Neurooncology and Neuropathology, 1997

Dept. of Molecular Biology & Genetics Research Fellow (Visiting Professor), 1998

Massachusetts General Hospital, Mass. Eye and Ear Infirmary, Boston

Dept. of Ophthalmology, Harvard Medical School Visiting Fellow: Ocular Path., 1998

PRE- AND POSTDOCTORAL AWARDS

U.S. Public Health Service NIH, NINCDS, Predoctoral Fellow, 1967-1969

Commissioned Officer, Reserve Corps, at NIH, 1972-1974

NIH, NEI, Postdoctoral Fellow, 1974-1976

NIH, NEI, Trainee, Vision Research, 1977-1979

Leopold Schepp Foundation Research Fellow, 1977

Alfred P. Sloan Foundation Fellow in Neuroscience, 1978-1981

Marine Biological Laboratory NSF, STI Fellow, 1980

Alberta Heritage Foundation for Medical Research Scholar, 1986-1991

Oxford University McDonnell-Pew Fellowship in Cognitive Neuroscience, 1992

MILITARY SERVICE

PHS, Surgeon (Lieutenant Commander), National Eye Institute, N.I.H., 1972-1974

PROFESSIONAL LICENSES AND BOARD CERTIFICATIONS

Medical License, State of Rhode Island, Ltd: 1995-1999, Full: 1999, Inactive - 2007

Curriculum Vitae: Edward V. Famiglietti, M.D., Ph.D.

ACADEMIC APPOINTMENTS

Wayne State University School of Medicine, Detroit

Department of Anatomy, Assistant Professor, 1979-1985

University of Calgary, Faculty of Medicine, Calgary

*Department of Anatomy, Lions' Sight Centre, and Neuroscience Research Group,
Associate Professor, 1986 -1995*

University of Oxford

Department of Physiology, McDonnell-Pew Fellow (Visiting Professor) 1992

Brown University

Department of Neuroscience, Adjunct Associate Professor, 1995-2003

Department of Surgery (Ophthalmology), Adjunct Associate Professor, 2003-2011

*Department of Molecular Pharmacology, Physiology, and Biotechnology, Adjunct
Associate Professor, 2011-*

Yale University

*Department of Ophthalmology and Visual Sciences, Visiting Scientist, 2005-2006,
2011-*

HOSPITAL APPOINTMENTS

Rhode Island Hospital

Division of Ophthalmology, Research Staff, 2000-

OTHER APPOINTMENTS

National or International Boards and Committees:

N.S.F., Sensory Sciences Division, Ad hoc reviewer of grant proposals

N.I.H., D.R.G., Program Project Grants: computer applications to neurobiology, Site visitor

N.I.H., D.R.G., Visual Sciences B Study Section, Special Emphasis Panel

Society for Neuroscience, Program Committee, Annual Meeting, Chairman of Session

Assn. for Research in Vision and Ophthalmology, Program Committee, Annual Meeting

Chairman or Co-chairman of Session

Assn. for Research in Vision and Ophthalmology, Program Planning Committee,

Co-chairman, Section of Anatomy and Pathology

Editorial Referee:

Anatomy and Embryology

Brain Research

Experimental Brain Research

Eye Research

Investigative Ophthalmology and Visual Science

Journal of Comparative Neurology

Journal of Neuroscience

Science

Trends in Neuroscience

Vision Research

Visual Neuroscience

MEMBERSHIP IN SOCIETIES

American Association for the Advancement of Science

American Association of Anatomists

Association for Research in Vision and Ophthalmology

Society for Neuroscience

PUBLICATIONS

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.
38. Famiglietti E. V. (in revision) Correction: displaced ganglion cells of rabbit retina belong to a family of normally placed and displaced, leptodendritic ganglion cells.
39. Famiglietti E. V. (in preparation) Seven multistratified ganglion cell types in rabbit retina: complex morphology and unknown physiology.

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 amacrine cells: 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. Intl. 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 GABAA 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.

Curriculum Vitae: Edward V. Famiglietti, M.D., Ph.D.

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- γ (PPAR- γ) 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.

INVITED PRESENTATIONS

Symposia, Workshops:

Workshop on Intracellular Staining, Annual Meeting, Society for Neuroscience, Atlanta, 1979.*⁺

Satellite Symposium of the IUPS on Information Processing in the Retina, Vienna, 1980.*⁺

5th International Taniguchi Symposium on Visual Science, Ohtsu, Japan, 1982.*⁺ 5th

International Congress of Eye Research, Symposium on Retinal Morphology, Veldhoven, The Netherlands, 1982.* (did not attend)

Satellite Symposium of the IUPS on Vision in the Rabbit, Canberra, 1983.* (did not attend)

Satellite Symposium of the IUPS on Development of the Visual System, Sydney, 1983.* (did not attend)

Symposium: Cholinergic Neurons in the Retina, Annual Meeting, Soc. for Neurosci., Anaheim, 1984.*⁺

10th Eric K. Fernstrom Symposium on Retinal Signal Systems, Degenerations and Transplants, Örenäs Castle, Glumslöv, Sweden, 1986.*⁺

7th Intl. Congress of Eye Research, Symposium on Amacrine Cell Neurobiology, Nagoya, Japan, 1986.*⁺

Progress in Retinal Research: An International Symposium, National Institute for Physiological Sciences, Okazaki, Japan, 1986.*⁺

NATO Advanced Research Workshop on the Neural Organization of the Inner Retina, Oldenburg, Germany, 1988.*⁺

Satellite Symposium of the IUPS (Organizing committee) on Retinal Development and Regeneration, Calgary and Banff, Alberta, 1988.*⁺

Symposium on the Form and Synaptic Function of Retinal Ganglion Cells (Organizer), Annual Meeting, Society for Neuroscience, Toronto, 1988.*⁺

Vice-Presidential Symposium, Can. Fed. Biol. Soc., Annual Meeting, Calgary, 1989.*⁺

Jacques Monod Conference on The Visual Processing of Motion, Roscoff, France, 1989.*⁺

International Taniguchi Foundation Symposium on Visual Science, Ohtsu, Japan, 1991.*⁺

Gatsby Computational Neuroscience Unit Workshop: Retinal Mechanisms of Directional Selectivity, London, Great Britain, 2003.*⁺

FASEB Conference on Retinal Neurobiology, Saxtons River, VT, 2004⁺

* by invitation. ⁺ conference presentation

Other conferences:

Gordon Conference on Development of the Nervous System, Newport, RI, 2004.

Curriculum Vitae: Edward V. Famiglietti, M.D., Ph.D.

Keystone Symposium on Molecular Regulation of Stem Cells, Banff, AB, Canada, 2005.

Academic Seminars and Lectures:

Harvard University, Department of Biological Sciences: 'Dendrodendritic synapses in the lateral geniculate nucleus of the cat', 1971.

(More than 60 invited seminars at universities in North America, Great Britain, continental Europe, India, and Japan, 1971-2009.)

Harvard University, Center for Brain Science: 'Retinal architecture: dendritic compartmentalization of amacrine cell inputs to a diversity of complex ganglion cells', 2009.

RESEARCH FUNDING-GRANTS

1. NIH, Wayne State University, BRSG grant, E. V. Famiglietti, P.I., 1979.
2. Wayne State University, Neurosciences Medical Student Fellowship Program, (for D. Wang), 1979.
3. NIH, National Eye Institute, R01, E. V. Famiglietti, P.I., "Neural architecture of vertebrate retina", 1980-1983.
4. Wayne State University, Neurosciences Small Grant Program, E. V. Famiglietti, P.I.
5. NIH, National Eye Institute, "Core grant for vision research", Wayne State University Medical School, H. Maisel, P.I., E. V. Famiglietti, Designer and Director, "Electronics and computer engineering module", E. V. Famiglietti, 'Major User', "Electron microscopy module". 1981-1986 (EVF).
6. NIH, National Eye Institute, R01 (competitive renewal), E. V. Famiglietti, P.I., "Neural architecture of vertebrate retina", 1983-1986.
7. University of Calgary, Starter Grant, E. V. Famiglietti, P.I., 1986.
8. Alberta Heritage Foundation for Medical Research, Major Equipment Grant, E. V. Famiglietti, P.I., "Computer Graphics and Neuronal Imaging", 1986.
9. Alberta Heritage Foundation for Medical Research, Operating Grant, E. V. Famiglietti, P.I., "Functional Architecture of Vertebrate Retina", 1986-1988.
10. Medical Research Council of Canada, Operating Grant, E. V. Famiglietti, P.I., "Functional Architecture of Ganglion Cells in Vertebrate Retina", 1988-1990.
11. Ministry of Science and Technology of Canada, MRC, Network of Centres of Excellence Grant, A. Aguayo and Y. Lamarre, Co-directors, "Neural Regeneration and Functional Recovery", R. Lee, P.I., Calgary node, E. V. Famiglietti, Facility Director and Director of Development, "Neural Imaging" facility, 1989-1991.
12. Medical Research Council of Canada, Facilities and Equipment Grant, R. Hawkes, P.I., "Electron Microscope Facility Support", E. V. Famiglietti, 'Major User', 1990-1995.
13. Natural Sciences and Engineering Research Council of Canada, Equipment Grant, E. V. Famiglietti, P.I., "Optical Imaging and Recording of Retinal Neurons *in vitro*", 1993.
14. Natural Sciences and Engineering Research Council of Canada, Operating Grant, E. V. Famiglietti, P.I., "Neural Circuitry of Ganglion Cells in Vertebrate Retina", 1993-1995.

Curriculum Vitae: Edward V. Famiglietti, M.D., Ph.D.

UNIVERSITY TEACHING ROLES

Wayne State University, School of Medicine, Department of Anatomy, Gross Anatomy, parts 2 and 4, 120 medical students, 1979-1985.

Wayne State University, School of Medicine, Department of Anatomy, Neuroanatomy Lectures (4), 120 medical students, 1979-1985.

Wayne State University, School of Medicine, Department of Anatomy, Neuroanatomy Labs (10), 30 medical students, 1979-1985.

Wayne State University, School of Medicine, Department of Anatomy, Neuroanatomy-Neurological Case Studies (8), 30 medical students, 1979-1985.

Wayne State University, School of Medicine, Department of Anatomy, Neuroanatomy Seminars (4), 10 graduate students, 1981-1985.

University of Calgary, Faculty of Medicine, Department of Anatomy, Lions' Sight Centre, and Neuroscience Research Group, Co-organizer of new core curriculum: Neuroanatomy for graduate students, 1987.

University of Calgary, Faculty of Medicine, Department of Anatomy, Lions' Sight Centre, and Neuroscience Research Group, Coordinator of new core curriculum: Neuroanatomy for neuroscience graduate students (15), 1987-1988.

University of Calgary, Faculty of Medicine, Department of Anatomy, Lions' Sight Centre, and Neuroscience Research Group, Lecturer, 6 lectures: Neuroanatomy for graduate students (15), 1987-1995.

HOSPITAL TEACHING ROLES

Brown University, Warren Alpert Medical School, Department of Surgery, Division of Ophthalmology, Residency Training Program, Curriculum Development and Delivery: Basic science lectures in Visual Neuroscience, residents (8-9), 2003 - 2011.