

Laurence M. Rapp, Ph.D.

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I. Education

Ph.D. in Biological Science, 1979
Florida State University, Tallahassee, FL
Dissertation advisor: Theodore P. Williams

M.S. in Biological Science, 1976
Florida State University, Tallahassee, FL
Thesis advisor: Theodore P. Williams

B.S in Psychology, 1974
Pennsylvania State University

II. Appointments

Current:

Director and Lecturer, Public Health Program
Department of Life & Health Sciences
University of North Texas at Dallas
September, 2014- Present

Previous:

Director of System Academic Initiatives
Office of the Vice Chancellor for Academic Affairs and Student Success
University of North Texas System
January, 2012 – May, 2014

Instructional Professor
Associate Chair for Undergraduate Affairs & Director of Laboratory Instruction
Department of Biology and Biochemistry, University of Houston
September 2006 – August 2011

Visiting Assistant Professor
Director of Laboratory Instruction
Department of Biology and Biochemistry, University of Houston

September 2001 - August 2006

Associate Professor of Ophthalmology
Associate Professor of Molecular and Cellular Biology
Baylor College of Medicine
April 1997 – August 2001

Assistant Professor of Ophthalmology
Baylor College of Medicine
April 1988 – May 1997

Research Assistant Professor of Ophthalmology
Baylor College of Medicine
July 1983 – March 1988

Research Instructor
Department of Ophthalmology, Baylor College of Medicine
May 1982 – June 1983

Postdoctoral Fellow
Baylor College of Medicine, Department of Ophthalmology
September 1979 – April 1982

III. Administrative Assignments:

At University of North Texas at Dallas

2014-present Prevention & Awareness Committee
2014-present Academic Affairs Committee
2014-present University Curriculum Committee
2014-present Core Curriculum Committee
2014-present Academic Excellence Leadership Team (AELT)
2014-present Liberal Arts & Sciences Dean's Council
2014-present Biology Lecturer Search Chair
2014-present Founding Director/Dean of Nursing Search Committee
2014-present "Jag Success 101" Mentoring Program
2014-present Writing Across the Curriculum (WAC) Committee
2014 Faculty Alliance Ad Hoc Committee to Review UNTD Grade Appeal Policy

At University of Houston

Department:

2001-2011 Director of Laboratory Instruction
2001-2006 Departmental Curriculum Committee
2006-2011 Associate Chair for Undergraduate Affairs
2006-2011 Chair, Departmental Curriculum Committee
2006-2011 Departmental Policy Committee

College and University:

2005 Honors Biology Instructional Faculty Search Committee
2005-2007 Writing in the Disciplines Faculty Fellows
2006 Ad Hoc Committee for Review of Faculty Lecture Evaluation Forms
2006-2007 Office of Institutional Effectiveness Reading Group
2006-2009 Undergraduate Council Core-Curriculum Subcommittee
2006-2011 College of Natural Sciences and Mathematics Curriculum Committee
2006-2011 Undergraduate Council
2006-2011 Undergraduate Council, CBM Subcommittee
2009 Fleming Addition Planning Committee

At Baylor College of Medicine

1988 Departmental Facilities and Development Subcommittee
1988-1992 Departmental Radiation Safety Supervisor
1988-1993 Director of Animal Module for Departmental Core Grant
1989 Departmental Ad Hoc Committee on Conduct in Research
1990 Departmental Ad Hoc Committee to Establish Guidelines for
Administrative Review of Grants and Contracts
1990-1993 Animal Biosafety Subcommittee, Baylor College of Medicine
1992-2001 Departmental Center for Age-Related Macular Degeneration
1993-1998 Animal Research Committee, Baylor College of Medicine
1993-2000 Animal Protocol Review Committee, Baylor College of Medicine
1993-2001 Huffington Center on Aging, Baylor College of Medicine,
Graduate Program in the Biology of Aging, Faculty Member
1994-2001 Neurobiology of Disease Program, Baylor College of Medicine,
Faculty Associate
1994-2001 Electron Microscopy Module Director for Biology Department Core
Grant
1995-2000 Animal Protocol Review Committee, Baylor College of Medicine, Vice
Chair
1995-1998 Director of the Photography Module for Biology Department Core Grant

- 1996** Vision 2000/ARC Subcommittee for review of Center for Comparative Medicine
- 1998–2001** Departmental Committee on Faculty Awards
- 1997–2001** Departmental Research Committee

IV. Teaching Information

A. Courses Taught

At University of North Texas at Dallas

School and Community Health Problems and Services (HLTH 1100)

Lecture course, 3 credit hours. Health services offered by the school and community, the role of the health educator to benefit the health of every individual in society; health problems and solutions to improve community health. Semesters taught: Fall 2014, Spring 2015 (100% Online).

Epidemiology of Communicable and Non-Communicable Disease (HLTH 4100)

Lecture course, 3 credit hours. Principles and methods of epidemiology and their applicability to public health. Topics include history and practical applications of epidemiology, mortality and morbidity, sources of data, epidemiologic study design, measurement of disease frequency and effect, data interpretation, and screening for disease. Semesters taught: Spring 2015.

At University of Houston

Introduction to Biological Science (BIOL1431)

Lecture and lab course, 4 credit hours. First of two-part introductory biology series required in B.S. Biology & Biochemistry degrees. Includes biological chemistry, cellular biology, photosynthesis, and selected topics of mammalian physiology. Semesters taught: Summer 2002, 2003, 2003, 2004, 2005; Fall 2002, 2003.

Integration of Biological Knowledge (BIOL 4103)

Lecture course, 1 credit hour. Review of the curriculum in the B.S. Biology major in preparation for exit examination (Major Field Test in Biology). Semesters taught: Spring 2009, 2010, 2011; Fall 2010, 2011.

At Houston Community College- Central Campus

Introductory Biology (BIOL 1308)- Adjunct Instructor for two sections of non-majors freshman level biology course. Taught in Spring 2001.

At Baylor College of Medicine

Cell Biology and Histology- Laboratory instructor and guest core curriculum course lecturer for first-year medical students. Semesters taught: Fall 1994-1996.

B. Laboratory Coordination

2001 - 2006 Coordinator for *Introduction to Biological Science Laboratory (BIOL1431/1432)*. Responsibilities include supervision of teaching assistants, development of course curriculum and instructional materials, ordering laboratory supplies, testing of laboratory exercises, maintenance and upgrade of laboratory equipment.

C. Curriculum and Course Development

Epidemiology of Communicable and Non-Communicable Disease (HLTH 4100)- Developed the course offered for the first time at UNT Dallas, including a semester-long research component.

School and Community Health Problems and Services (HLTH 1100)- Developed online version of the course, first offered in Spring 2015.

Writing in the Disciplines Curriculum- Introduced writing in the disciplines curriculum in *Introduction to Laboratory Sciences II (BIOL 1162)* and *Genetics Laboratory (BIOL 3311)*.

Integration of Biological Knowledge (BIOL 4103) – Developed a 1 credit senior level course to review biology curriculum in preparation of Major Field Test in Biology.

D. Program Development

Bachelor of Arts in Public Health. Developed program that is currently pending UNT System Board of Regents and Texas Higher Education Coordinating Board approval, with an anticipated start date of Fall 2015.

E. Presentations

Liberal Arts and Sciences “Brown Bag” Presentation: *South Dallas Socioeconomics and Community Health Needs*, September 5, 2014.

UNT Dallas Town Hall Meeting: “*Let’s Talk About Ebola*”, October 21, 2014.

V. Research (1983-2001)

A. Research Support

Grants:

"Factors Affecting Retinal Susceptibility to Degeneration"

NIH/NEI Grant RO1 EY04554

PI - Laurence M. Rapp, Ph.D.

3/01/83 - 2/28/86 (01-03 years)

Direct Cost for Overall Period - \$165,534

"Factors Affecting Retinal Susceptibility to Degeneration"

NIH/NEI Grant RO1 EY04554

PI - Laurence M. Rapp, Ph.D.

10/01/86 - 9/30/89 (04-06 years)

Direct Cost for Overall Period - \$261,649

"Role of Near-UV Light in Retinal Degeneration and Aging"

NIH/NEI Grant RO1 EY04554

PI - Laurence M. Rapp, Ph.D.

4/1/90 - 3/31/95 (07-11 years)

Direct Cost for Overall Period - \$714,186

"Prevention of Retinal Pigment Epithelium Atrophy by Beta-Carotene Supplementation"

Retina Research Foundation

PI - Laurence M. Rapp, Ph.D.

1/1/95 - 12/31/95

Direct Costs - \$21,475

"Role of Light Toxicity in Retinal Degeneration and Aging"

NIH/NEI Grant RO1 EY04554

PI - Laurence M. Rapp, Ph.D.

12/1/95 - 11/30/98

Direct Cost for Overall Period - \$405,021

"Prevention of Retinal Pigment Epithelium Atrophy by Beta-Carotene Supplementation"

Retina Research Foundation

PI - Laurence M. Rapp, Ph.D.

1/1/96 - 12/31/96

Direct Costs - \$12,190

“Prevention of Retinal Pigment Epithelium Atrophy by Beta-Carotene Supplementation”

Retina Research Foundation

PI - Laurence M. Rapp, Ph.D.

1/1/97 - 12/31/97

Direct Costs - \$23,287

“Prevention of Retinal Pigment Epithelium Atrophy by Beta-Carotene Supplementation”

Retina Research Foundation

PI - Laurence M. Rapp, Ph.D.

1/1/98 - 12/31/98

Direct Costs - \$25,000

“Antioxidant Protection by Macular Carotenoids”

Retina Research Foundation

PI - Laurence M. Rapp, Ph.D.

1/1/99 - 12/31/99

Direct Costs - \$23,255

“Antioxidant Protection by Macular Carotenoids”

Retina Research Foundation

PI - Laurence M. Rapp, Ph.D.

1/1/00 - 12/31/00

Direct Costs - \$28,608

“Antioxidant Protection of the Macula by Lutein and Zeaxanthin”

Lions Eye Bank Foundation

PI - Laurence M. Rapp, Ph.D.

6/1/00 - 5/31/01

Direct Costs - \$9,233

“Antioxidant Protection in Aging Human Retina”

Retina Research Foundation

PI - Laurence M. Rapp, Ph.D.

1/1/01 - 12/31/01

Direct Costs - \$18,491

Contracts:

“Role of ISIS 2922 in Ocular Immune Stimulation”

ISIS Pharmaceuticals, Inc.

PI - Laurence M. Rapp, Ph.D.

6/1/96 - 7/31/96
Direct Costs - \$6,679

“Role of ISIS 2922 in Ocular Immune Stimulation”
ISIS Pharmaceuticals, Inc.
PI - Laurence M. Rapp, Ph.D.
11/1/96 - 12/31/96
Direct Costs - \$7,233

“Role of ISIS 2922 in Ocular Immune Stimulation”
ISIS Pharmaceuticals, Inc.
PI - Laurence M. Rapp, Ph.D.
8/1/97 - 10/31/97
Direct Costs - \$13,074

B. National Scientific Participation

Journal Referee:

Current Eye Research
Experimental Eye Research
Investigative Ophthalmology & Visual Science
Journal of Neuroscience
Journal of Veterinary and Comparative Ophthalmology
Lipids
Nature Medicine
Photochemistry and Photobiology
Vision Research
Visual Neuroscience

Review Panels:

Fight for Sight/National Society to Prevent Blindness Scientific Review Board, 1992-1994
Consultant to Visual Science C Study Section, National Eye Institute, National Institutes of Health, February, 1995

Editorial Board Member:

Investigative Ophthalmology & Visual Science Editorial Board Member, 1999

Professional Societies:

Association for Research in Vision and Ophthalmology
International Society for Eye Research
American Aging Association

Texas Society to Prevent Blindness

Invited Lectures:

National:

Symposium on *Light Damage to the Retinal Pigment Epithelium*, Sixth Annual meeting of the American Society of Photobiology, Burlington, Vermont, June, 1978.

Symposium on *The Effects of Constant Light on Visual Processes*, Tallahassee, Florida, April, 1979.

Symposium on *Intense Light Hazards in Ophthalmic Diagnosis and Treatment*, Houston, Texas, September, 1979.

Workshop on *Long-Term Visual Health and Optical Radiation*, Rockville, Maryland, September, 1983.

Light Toxicity and Retinopathy of Prematurity Conference, Baylor University Medical Center, Dallas, Texas, August, 1987.

Biology of Aging Seminar, Huffington Center on Aging, Baylor College of Medicine, Houston, Texas, February, 1991 and January, 1993.

Visual Science Research Seminar Series, Bowman Gray School of Medicine, Winston-Salem, North Carolina, February, 1991

Seminar for *School Nurses Celebrate Sight*, Prevent Blindness Texas, Houston, Texas, September, 1994

Vision Research Seminar, Department of Ophthalmology, University of Florida, Gainesville, Florida, March, 1996

Neuroscience Colloquium, Department of Molecular Biophysics, Florida State University, Tallahassee, Florida, March, 1996

James M. Barr Award Lecture, Retina Research Foundation, Houston, Texas, February, 1999

International:

Workshop on *Phototoxic Retinal Damage*, V International Congress of Eye Research, Eindhoven, The Netherlands, 1982.

Symposium on *Retinal Degeneration: Contemporary Experimental and Clinical Studies*, Alicante, Spain, 1984.

International Symposium on Retinal Degenerations, San Francisco, California, 1988.

International Symposium on Experimental and Clinical Ocular Pharmacology and Pharmaceutics, Geneva, Switzerland, September, 1995

Invited Lecturer, Emanuel Institute of Chemical Physics, USSR Academy of Sciences, Moscow, Russia, October, 1999.

Symposium on Light-Induced Retinal Degeneration: Mechanisms and Protection, XIV International Congress of Eye Research, Santa Fe, New Mexico, October, 2000.

Mini-symposium on Retinal Antioxidants, IV International Symposium on Ocular Pharmacology & Pharmaceutics, Seville, Spain, February, 2002.

Session Moderator:

Photoxidative Damage and Protective Mechanisms in the Retina, Platform Session at 1997 Annual ARVO Meeting, Fort Lauderdale, Florida

Mechanisms of Retinal Light Damage, Platform Session at 1995 Annual ARVO Meeting, Fort Lauderdale, Florida.

Retinal Light Damage, Special Interest Group (SIG) meeting at 1993 ARVO Annual Meeting, Sarasota, Florida.

Photooxidative Damage and Protective Mechanisms in Retina, Platform Session at 1997 Annual ARVO Meeting, Fort Lauderdale, Florida

Symposium Organizer:

Symposium on *Mechanisms of Photic Retinal Damage*, Tenth International Congress of Eye Research, Stresa, Italy, September, 1992.

Sixth Annual Research Symposium on Aging, *Ocular Disorders in Aging*, Huffington Center on Aging, Baylor College of Medicine, Houston, Texas, May, 1993.

C. Publications

Full Papers:

Rapp, L.M. and Williams, T.P. (1977). Rhodopsin content and electroretinographic sensitivity in light-damaged rat retina. *Nature* **267**, 835-836.

Rapp, L.M. and Williams, T.P. (1979). Damage to the albino rat retina produced by low intensity light. *Photochem. and Photobiol.* **29**,731-733.

Rapp, L.M. and Williams, T.P. (1980). The role of ocular pigmentation in protecting against retinal light damage. *Vision Res.* **20**, 1127-1131.

Howell, W.L., **Rapp, L.M.** and Williams, T.P. (1982). Distribution of melanosomes across the retinal pigment epithelium of a hooded rat: implications for light damage. *Invest. Ophthalmol. Vis. Sci.* **22**, 139-144.

Rapp, L.M. and Basinger, S.F. (1982). Effects of local anesthetics on retinal function. *Vision Res.* **22**, 1097-1103.

Anderson, R.E., **Rapp, L.M.**, and Wiegand, R.D. (1983). Lipid peroxidation and retinal degeneration. *Curr. Eye Res.* **3**, 223-227.

Wiegand, R.D., Giusto, N.M., **Rapp, L.M.**, and Anderson, R.E. (1983). Evidence for rod outer segment lipid peroxidation following constant illumination of the rat retina. *Invest. Ophthalmol. Vis. Sci.* **24**, 1433-1435.

Fliesler, S.J., **Rapp, L.M.**, and Hollyfield, J.G. (1984). Photoreceptor specific degeneration caused by tunicamycin. *Nature* **311**, 575-577.

Rapp, L.M., Jose, J.G., and Pitts, D.G. (1985). DNA repair synthesis in the rat retina following in vivo exposure to 300 nm radiation. *Invest. Ophthalmol. Vis. Sci.* **26**, 384-388.

Wiegand, R.D., Joel, C.D., **Rapp, L.M.**, Nielsen, J.C., Maude, M.B., and Anderson, R.E. (1986). Polyunsaturated fatty acid and vitamin E in rat rod outer segments during light damage. *Invest. Ophthalmol. Vis. Sci.* **27**, 727-733.

LaVail, M.M., Papermaster, D.S., Bridges, C.D.B., **Rapp, L.M.**, Gonzalez-Fernandez, F., and Hollyfield, J.G. (1987). Absence of an inherited retinal regeneration in the WAG/Rij rat. *Exp. Eye Res.* **44**, 465-469.

Rapp, L.M., Thum, L.A., and Anderson, R.E. (1988). Synergism between environmental lighting and taurine depletion in causing photoreceptor cell degeneration. *Exp. Eye Res.* **46**, 229-238.

Rapp, L.M., Tolman, B.L., Koutz, C.A., and Thum, L.A. (1990). Predisposing factors to light-induced photoreceptor cell damage: Retinal changes in maturing rats. *Exp. Eye Res.* **51**, 177-184.

Rapp, L.M., Tolman, B.L. and Dhindsa, H.S. (1990). Separate mechanisms for retinal damage by ultraviolet-A and mid-visible light. *Invest. Ophthalmol. Vis. Sci.* **31**, 1186-1190.

Rapp, L.M. and Smith, S.C. (1992). Evidence against melanin as the mediator of retinal phototoxicity by short-wavelength light. *Exp. Eye Res.* **54**, 55-62.

Pittler, S.J., Fliesler, S.J. and **Rapp, L.M.** (1992). Novel morphological changes in rat retina induced by intravitreal injection of lovastatin. *Exp. Eye Res.* **54**, 149-152.

Rapp, L.M. and Smith, S.C. (1992). Morphological comparisons between rhodopsin mediated and short-wavelength classes of retinal light damage. *Invest. Ophthalmol. Vis. Sci.* **33**: 3367-3377.

Fliesler, S.J., Florman, R., **Rapp, L.M.**, Pittler, S.J. and Keller, R. K. (1993). *In vivo* biosynthesis of cholesterol in rat retina. *FEBS Letters* **335**: 234-238.

Rapp, L.M., Fisher, P.L., and Sheinberg, C.H. (1994). Impact of lipofuscin on the retinal pigment epithelium: Electroretinographic evaluation of a protease inhibition model. *Grafe's Arch. Clin. Exp. Ophthalmol.* **232**, 232-237.

Rapp, L.M., Fisher, P.L., and Dhindsa H.S. (1994). Reduced rate of rod outer segment renewal in photoreceptor cells recovering from UVA light damage. *Invest. Ophthalmol. Vis. Sci.* **35**, 3540-3548.

Koutz, C.A., Wiegand, R.D., **Rapp, L.M.** and Anderson, R.E. (1995). Effect of dietary fat on the response of the rat retina to chronic and acute light stress. *Exp. Eye Res.*, **60**, 307-316.

Pittler, S.J., Fliesler, S.J., Fisher, P.L. and **Rapp, L.M.** (1995). *In vivo* requirement for products of protein prenylation for maintenance of retinal cytoarchitecture and photoreceptor structure. *J. Cell Biol.* **130**, 431-439.

Rakoczy, P.E., Lai, M.C., Vijayasekaran, S., Robertson, T., **Rapp, L.M.**, Papadimitriou, J. and Constable, I. (1996). Initiation of impaired outer segment degradation in vivo using an antisense oligonucleotide. *Curr. Eye Res.*, **15**, 119-123.

Rapp, L.M., Fisher, P.L., and Suh, D.W. (1996). Evaluation of retinal susceptibility to light damage in pigmented rats supplemented with beta-carotene. *Curr. Eye Res.*, **15**, 219-223.

Rapp, L.M. and Ghalayani, A.J. (1999) Influence of UVA light stress on photoreceptor cell metabolism. *Exp. Eye Res.*, **68**, 757-764.

Rapp, L.M., Maple, S.S and Choi, J. H. (2000) Lutein and zeaxanthin concentrations in rod outer segment membranes from perifoveal and peripheral human retina *Invest. Ophthalm. Vis. Sci.*, **41**, 1200-1209.

Book Chapters:

Rapp, L.M. and Williams, T.P. (1980). A parametric study of retinal light damage in albino pigmented rats. In: *The Effects of Constant Light on Visual Processes* (Ed. by Williams, T.P. and Baker, B.N.). Plenum Press, New York, pp.135-159.

Rapp, L.M., Wiegand, R.D., Anderson, R.E. (1982). Ferrous ion-mediated retinal degeneration: Role of rod outer segment lipid peroxidation. In: *Problems of Normal and Genetically Abnormal Retinas*. (Ed. by R. Clayton, I. Heywood, H.W. Reading, and A. Wright) Academic Press, New York, pp.109-119.

Anderson, R.E. and **Rapp, L.M.** (1983). Visual pigment dynamics and the vitamin A cycle. In: *Biochemistry of the Eye*. (Ed. by R.E. Anderson) American Academy of Ophthalmology, San Francisco, pp.189-195.

Wiegand, R.D., Jose, J.G., **Rapp, L.M.**, and Anderson, R.E. (1984). Free radical and damage to ocular tissues. In: *Free Radicals in Biology and Aging*. (Ed. by D. Armstrong, et al.) Raven Press, New York, pp.317-353.

Rapp, L.M., Naash, M.I., Wiegand, R.D., Joel, C.D., Nielsen, J.C., and Anderson, R.E. (1985). Morphological and biochemical comparisons between retinal regions having differing susceptibility to photoreceptor degeneration. In: *Retinal Degeneration: Experimental and Clinical Studies*. (Ed. by M.M. LaVail) Alan R. Liss., New York, pp.421-438.

Fliesler, S.J., **Rapp, L.M.**, Rayborn, M.E., and Hollyfield, J.G. (1985). Defects in retinal glycoprotein metabolism: Putative role in photoreceptor degenerations. In: *Retinal*

Degeneration: Experimental and Clinical Studies. (Ed. by M.M. LaVail) Alan R. Liss, Inc., New York, pp.349-372.

Massof, R.W., Sykes, S.M., **Rapp, L.M.**, et al. (1985). Optical radiation damage to ocular photoreceptors. In: *Optical Radiation and Visual Health* (Ed. by M. Waxler and V.M.Hitchins) CRC Press, Boca Raton.

Anderson, R.E., Wiegand, R.D., **Rapp, L.M.**, Maude, M.B., Naash, M.I., and Penn, J.S. (1987). Studies on biochemical mechanisms of retinal degeneration. In: *Cell and Developmental Biology of the Eye. Vol. 6: The Microenvironment and Vision*, edited by J.B. Sheffield and S.r. Hilfer, Springer Verlag, pp.159-168.

Rapp, L.M., Thum, L.A., Tarver, A.P., and Wiegand, R.E. (1987). Retinal changes associated with taurine depletion in pigmented rats. In: *Degenerative Retinal Disorders: Clinical and Laboratory Investigations*, (Ed. by Joe G. Hollyfield) Alan R. Liss, Inc., New York, pp.485-495

Rapp, L.M. (1991). Further insight into the spectral dependence of photically-induced retinal degenerations. In: *Retinal Degenerations*, (Ed. by Anderson, R.E., Hollyfield, J.G., and LaVail, M.M.). CRC Press, Inc., Boca Raton, FL, pp. 183-188.

Anderson, R.E., Kretzer, F.L., and **Rapp, L.M.** (1995). Free radicals and ocular disease. In: *Free Radicals in Diagnostic Medicine: A Systems Approach to Laboratory Technology, Clinical Correlations, and Antioxidant Therapy*, (Ed. by Donald Armstrong). Advances in Experimental Medicine, Vol. 366, Plenum Press, New York, pp 73 -86.

Rapp, L.M. (1995). Retinal phototoxicity. In: *Handbook of Neurotoxicology* (Ed. by Chang, L. and Dyer, R.S.) Marcel Dekker, Inc., New York., pp. 963-1003.

D. Honors and Awards

F32 Individual Postdoctoral Fellowship, EY05493 "Regional Differences in Retinal Morphology and Physiology", May 1980- April 1982.

James M. Barr Award for Outstanding Retina Research Achievement in the Greater Houston Area, February, 1999.

Marjorie W. Margolin Prize, Retina Research Foundation, Houston, TX, April, 2001

V. Outreach and Public Engagement:

- 2014** It Takes A Village Partnership: How Technology is Changing Community Health
- 2014** Commit! Dallas/TxCAN College Testing Committee
- 2007** Anatomy and Physiology Lecturer to Upward Bound Students
- 1989-2000** Texas Society to Prevent Blindness, Houston Branch, Board of Directors
- 1994-95** Child's Advocates Volunteer
- 1987-89** Texas Children's Hospital Volunteer

References

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