

STEPHEN E KARPIAK PHD

EDUCATION

- 1969-1972 Pre-Doctoral Fellow, Dept of Neurology and The Parkinson Disease Foundation, College of Physicians & Surgeons, Columbia U. NY, NY
- 1970 MA Experimental Psychology, Fordham University
- 1972 PhD Experimental Psychology (Neurobiology), Fordham University
- 1972-1974 Post-Doctoral Fellow: Depts. of Neurology and Psychiatry, College of Physicians & Surgeons, Columbia U. NY, NY; post-graduate studies in Immunology.

POSITIONS

- 1974-1995 Faculty Member (Assistant Professor 1974-1984, Associate Professor 1985-1995): Psychiatry (Neuroscience) College of Physicians & Surgeons, Columbia University, NY, NY.
- 1974-1995 Research Scientist (Senior Scientist 1992-1995): Division of Neuroscience, NYSPI, Dept. Psychiatry, College of Physicians & Surgeons, Columbia U. NY, NY.
- 1987-1992 Scientific Advisor: (Peripheral Neuropathies WHO): World Health Organization, Geneva Switzerland.
- 1988-1995 Member: IRB (Columbia U; Albert Einstein Medical College; Rutgers Medical School (UMDNJ).
- 1990-1995 Advisor/Mentor: Intern Programs of the *New York Academy of Sciences*.
- 1995-1997 Program Director *Being Alive, AIDS Project Arizona*: - HIV/AIDS Health Education and Management: Phoenix, Arizona
- 1995-1997 Community HIV/AIDS Program Monitor (Quality Assurance) and Licensed Supervisor for MSW (HIV/AIDS): University of Arizona; Phoenix College.
- 1996-1997 Director & Founder: *Arizona HIV/AIDS Wellness Center*
- 1997-1999 Member Ryan White Council (AZ, Maricopa County) - Co-Investigator "Phoenix HIV/AIDS Needs Analysis 1998".
- 1997-1999 Executive Director: *A Place Called Home* - Providing Permanent Supportive Housing for the Homeless with HIV/AIDS: Phoenix, Arizona
- 1999-2002 Executive Director: *Pride Senior Network* NY, NY: Research and Advocacy for LGBT seniors from marginalized groups.
- 2002-2017 Senior Director for Research, *AIDS Community Research Initiative of America* (ACRIA), ACRIA Center on HIV and Aging: NY, NY
- 2009-pres Faculty New York University College of Nursing, NY, NY

TEACHING

Over 190 undergraduate credits taught including: Introductory Psychology; Psychopathology I and II; Experimental Psychology w/lab; Statistics; Neurobiology; Child Psychology; Motivation and Behavior; Neurochemistry of Behavior; Brain Institute Amsterdam (summer session).

SELECTED APPOINTMENTS/ACTIVITIES

- 1978-80 Member NINCDS Commission for the Control of Epilepsy
- 1979-81 Member NINCDS Site Visit Teams
- 1983-95 Consultant, FIDIA Research Foundation of FIDIA Pharmaceutical
- 1984 Co-Inventor: "Analgesia-Effecting 5-hydroxytryptophan Derivatives" with Drs. Tamir (Columbia U.) & Wilchek (Weizmann Institute, Israel) Patent Granted 5-1984.
- 1985-90 Member NIH Neurology B Study Section
- 1985-88 Member DMS-III-R Local Advisory
- 1985-93 Member Editorial Board, Journal "Brain Injury".
- 1988-91 Chair: Animal Care Committee (P & S; NYSPI) & IACUC: Member Primate Use Review Committee
- 1985-1991 Member Columbia U. Medical IRB (D)
- 1988-93 Assessor: PhD and Grant Reviewer for The Chinese University, Hong Kong
- 1983- Journal Reviewer: Including Brain Research, J. Neurochem., J. Neurosci., Nature, Science, Stroke, AIDS Care, Psychology Health & Medicine, JAIDS, J Internal Medicine, JAmGeriatricsSociety, Gerontologist, and Social Services, J Homosexuality.
- 1985-88 Mentor for Pan American Fellowship (UN WHO)
- 1986 Symposium Chair – Gangliosides in CNS Plasticity and Repair – Soc Neuroscience Meetings.
- 2004-2007 Principal Investigator – ROAH (Research on Older Adults with HIV)
- 2009-2011 HHS Funded Needs Assessment Older LGBT Communities (Chicago)

- 2008-2014 Project Advisor/Collaborator, Research on Older Adults-London (ROAH-London): Chelsea-Westminster Hospital, London, UK
- 2010-pres Member United Nations Committee on Aging (NYC)
- 2010-pres HIV and Aging Consensus Project: Clinical Guides for Managing Older Adults with HIV with the American Academy of HIV Medicine, American Geriatrics Society and ACRIA – see also www.HIV-Age.org
- 2011-2016 Member: Smoking Cessation in HIV: Collaborative Addressing Community Capacity to Implement SC Interventions: Memorial Sloan Kettering, GMHC, Hunter College.
- 2010-pres Member GMHC IRB, NY, NY
- 2014-pres Member ACRIA Amida Care Research Collaborative (AARC)
- 2015-pres Member Editorial Review Board *AIDS Care*
- 2015-pres Member Einstein/Rockefeller/Hunter CFAR
- 2016-pres Member Advisory for “HIV the Long View” (Gilead Pharmaceutical)
- 2016-pres Member/Editor – New York State Older Adults Advisory Group Implementation Strategies – Ending AIDS Blueprint for 2020

2015-pres Co-Principal Investigator – ROAH 2.0 (Research on Older Adults with HIV)
(N=approx. 2500)
Cornell Medical (HIV & Geriatrics) responses matched with clinical electronic
records
New York City community sample
NYS Upstate Rural and Small Urban communities
San Francisco CA
Oakland CA
Palm Springs – Focus Group Stage
Los Angeles – Focus Group Stage

SELECTED INVITED LECTURES

Over 300 Invited Lectures have been given at US, European, USSR, China and South American Medical Centers, Universities, Research Institutes, National and International Symposia/Conferences. A selected listing is provided at end.

PUBLICATIONS:

Over 150 publications in peer-reviewed journals, book chapters, and monographs in Immunology, Neuroimmunology, Neurobiology, Neurochemistry and HIV/AIDS. Over 800 abstracts.

Karpiak, S.E., Bowen, F.P. and Rapport, M.M. Epileptiform activity induced by intraventricular injection of antiserum to synaptic membrane. *Brain Research*, 59:303-310 (1973).

Karpiak, S.E., Rapport, M.M. and Bowen, F.P. Immunologically induced behavioral and electrophysiological changes in the rat. *Neuropsychologic*, 12:313-322 (1974).

Bowen, F.P., Karpiak, S.E., Demerjian, C., and Katzman, R. Sprouting of noradrenergic nerve terminals subsequent to freeze lesions of the rabbit cerebral cortex. *Brain Research*, 83:1-14 (1975).

Karpiak, S.E. and Rapport, M.M. Behavioral changes in two-month-old rats following prenatal exposure to antibodies against synaptic membranes. *Brain Research*, 92:405-413 (1975).

Karpiak, S. E., Graf, L. and Rapport, M.M. Antiserum to brain gangliosides produces recurrent epileptiform activity. *Science*, 194: 735-737 (1976).

Karpiak, S.E., Serokosz, M., and Rapport, M.M. Effects of anti-sera to S-100 protein and to the synaptic membrane fraction on maze performance and EEG. *Brain Research*, 102:313-321 (1976).

Karpiak, S.E., Kirchner, M. and Rapport, M.M. Reserpine inhibition of passive avoidance behavior: time dose responses. *Res. Comm. in Psychol., Psychiat. and Behav.*, 1:149-154 (1976).

Rapport, M.M. and Karpiak, S.E. Discriminative effects of antisera to brain constituents on behavior and EEG activity in the rat. *Res. Comm. in Psychol., Psychiat. and Behav.*, 1:115-124 (1976).

Rapport, M.M. and Karpiak, S.E. Immunological perturbation of neurological functions. In *Senile Dementia and Related Disorders* (ed. K. Nandy), Elsevier, N.Y., 73-88 (1978).

Karpiak, S.E., Graf, L. and Rapport, M.M. Antibodies to GM1 ganglioside inhibit a learned avoidance response. *Brain Research*, 151: 637-640 (1978).

Karpiak, S.E., Mahadik, S.P. and Rapport, M.M. Ganglioside receptors and induction of epileptiform activity: cholera toxin and cholera toxin B-subunits. *Experimental Neurology*, 62:256-259 (1978).

Tamir, H., Karpiak, S.E., Wajda, I.J., Wilchek, M. and Bodnar, R.J. Analgesic effects of N-acetyl-5HTP amide are not directly related to brain serotonin levels. *Life Sciences*, 25:655-663 (1979).

Karpiak, S.E. and Rapport, M.M. Inhibition of consolidation and retrieval stages of passive avoidance learning by antibodies to gangliosides. *Behavioral and Neural Biology*, 27:146-156 (1979).

Karpiak, S.E., Mahadik, S.P. and Rapport, M.M. Epileptiform activity induced by antibodies to gangliosides. *EEG & Clinical Neurophysiology*, 46:13P(1979)

Rapport, M.M., Karpiak, S.E., Mahadik, S.P., Perturbation of CNS functions by antibodies to gangliosides: speculations on biological roles of ganglioside receptors. *Adv. Exp. Med. Biol.*, 125: 335-338 (1980).

Rapport, M.M., Karpiak, S.E., Kasarskis, E.J. and Bass, N.H. Behavioral, chemical and morphological changes in adult rats after neonatal exposure to antiganglioside serum. In *Multidisciplinary Approach to Brain Development* (Ed. DiBenedetta, Balazs, Gombos and Porcellati), Elsevier/North-Holland, 151-153 (1980).

Kasarskis, E.J., Karpiak, S.E., Rapport, M.M., Yu, R. and Bass, N.H. Abnormal maturation of cerebral cortex and behavioral deficits in adult rats after neonatal administration of antibody to ganglioside. *Developmental Brain Research*, 1:25-35. (1981).

Karpiak, S.E., Mahadik, S.P., Graf, L. and Rapport, M.M. Immunological model of epilepsy: seizures induced by antibodies to GM1 ganglioside. *Epilepsia*, 22:189-196 (1981).

Karpiak, S.E. Gangliosides and their relationship to neuronal function. In *Peripheral Neuropathies*, Technical Report Series 654, WHO - United Nations, Geneva, Switzerland, 27-34 (1981).

Karpiak, S.E., Huang, Y.L., and Rapport, M.M. Immunological model of epilepsy: epileptiform activity induced by fragments of antibody to GM1 ganglioside. *J. Neuroimmunology*, 3:15-21 (1982).

Karpiak, S.E. Antibodies to GM1 ganglioside inhibit morphine analgesia. *Pharmacology, Biochemistry and Behavior*, 16:611-613 (1982).

- Frieder, B., Karpiak, S.E., and Rapport, M.M. Effect of antiepileptic drugs and an anticonvulsant on epileptiform activity induced by antibodies to ganglioside. *Experimental Neurology*, 78:644-653 (1982).
- Karpiak, S.E., Mahadik, S.P., Ciccarone, V. and Rapport, M.M. Immunological model of epilepsy: localization in vivo of antibodies to GM1 ganglioside injected intracerebrally. *J. Neuroimmunology*, Supp 1:S28 (1982).
- Karpiak, S.E., Ganglioside treatment improves recovery of alternation behavior following unilateral entorhinal cortex lesion. *Experimental Neurology*, 81:330-339 (1983).
- Karpiak, S.E., Frieder, B. and Rapport, M.M. Effect of anti-epileptic drugs on an immunological model of epilepsy. *Epilepsia*, 24:106 (1983).
- Karpiak, S.E. and Mahadik, S.P. Gangliosides facilitate functional recovery after entorhinal cortical lesions. *Neuroscience Letters*, 14:190 (1983).
- Gershon, M.D., Liu, K.P., Karpiak, S.E. and Tamir, H. Storage of serotonin in situ as a complex with serotonin binding protein in central and peripheral serotonergic neurons. *J. of Neuroscience*, 3:1901-1911 (1984).
- Karpiak, S.E., Vilim, F. and Mahadik, S.P. Gangliosides accelerate rat neonatal learning and levels of acetylcholinesterases. *Developmental Neuroscience* 6:127-135 (1984).
- Karpiak, S.E., Exogenous gangliosides enhance recovery from CNS injury. *Adv. Exp. Med. Biol.*, 174:489-497 (1984).
- Karpiak, S.E. and Mahadik, S.P. Reduction of cerebral edema with GM1 ganglioside. *J. Neuroscience Research* 12:485-492 (1984).
- Karpiak, S.E. and Mahadik, S.P. GM1 ganglioside administration limits pathology of CNS injury, in "Cellular and Pathological Aspects of Glycoconjugate Metabolism" INSERM 1126:585-598 (1985).
- Karpiak, S.E. Treating brain injury with gangliosides. *Intergrative Psychiatry* 3:199-210 (1985).
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- Karpiak, S., Wilchek, M., Yoburn, B., Bodnar, R., Mann, P. and Tamir, H. Analgesic properties of a systemically injected synthetic dipeptide 5-HTP. *Federation Proceedings FASEB* 44:1725 (1985).
- Vilim, F., Mahadik, S.P., Laev, H., Rapport, M.M. and Karpiak, S.E. Convulsive activity induced by monoclonal antibodies to GM1 ganglioside. *Epilepsia* 26:519 (1985).
- S.P. Mahadik & S.E. Karpiak. GM1 Ganglioside Accelerates Neonatal Development: Increased Neurochemical Maturation. *Neurotoxicology*, 7:165-172 (1986).
- Li, Y.S., Mahadik, S.P., Rapport, M.M. and Karpiak, S.E. Acute effects of GM1 ganglioside: reduction in both behavioral asymmetry and loss of Na,K-ATPase after nigro-striatal transection. *Brain Research* 377:292-297 (1986).

Bodnar, R., Karpiak, S.E., Mann, P., Tamir, H., Wilchek, M., Yoburn, B. Analgesic properties of a systemically-administered synthetic dipeptide 5-Hydroxytryptophan. *Peptides* 7:995-999 (1986).

Karpiak, S., Li, Y.S., Mahadik, S.P., GM1 and AGF2 ganglioside reduce mortality from ischemia: protection of membrane integrity. *Clinical Neuropharmacology* 9:338-340 (1986).

Karpiak, S.E., Li, Y.S., Aceto, P., and Mahadik, S.P. Acute effects of gangliosides on CNS injury. In "Gangliosides and Neuronal Plasticity", Springer/Verlag (pp. 407-414), (1986).

Karpiak, S.E., Li, Y.S., Mahadik, S.P. Gangliosides (GM1 & AGF2) reduce mortality due to ischemia. *Stroke* 18:184-187 (1987).

Karpiak, S.E., Li, Y.S. and Mahadik S.P. Ganglioside treatment: reduction of CNS injury and facilitation of functional recovery. *Brain Injury* 1:161-170 (1987).

Fass, B., Ramirez, J.J., Stein, D.G., Mahadik, S.P. and Karpiak, S.E. Ganglioside-induced alterations in hippocampal cholinergic enzymes after fimbria-fornix transection. *J. Neuroscience Research* 17:34-47, (1987).

Ramirez, J., Fass, B., Mahadik, S.P., Karpiak, S.E. Ganglioside treatment reduces hyperactivity following bilateral entorhinal cortical lesions. *Brain Research* 414:85-90 (1987).

Ramirez, J., Fass, B., Karpiak, S.E., Steward, O. Ganglioside treatments reduce locomotor hyperactivity after bilateral lesions of the entorhinal cortex. *Neuroscience Letters*, 75:283-287 (1987).

Karpiak, Li, Mahadik. Gangliosides (GM1 & AGF2) reduce mortality due to ischemia. *Stroke* 18:184-187 (1987).

Karpiak, S.E. and Mahadik, S.P. Selective uptake by purkinje neurons of antibodies to S-100 protein. *Experimental Neurology* 98:453-457(1987).

Mahadik, S.P., Hawver, D., Li, Y.S., Karpiak, S.E. Mechanism by which GM1 protects membrane function in ischemic tissue. *J. Neurochem.*, 48: S45c-52 1987.

Karpiak, S.E. & Mahadik, S.P. Selective uptake by purkinje neurons of antibodies to S-100 protein. *Experimental Neurology* 98:453-457(1987).

Mahadik, S.P., Laev, H., Korenovsky, A., Karpiak, S.E. Haloperidol alters rat CNS cholinergic system: enzymatic & morphological analyses. *Biol. Psychiatry* 24:199-217, 1988.

Mahadik, Vilim, Korenovsky, A., Karpiak, S.E. GM1 ganglioside acutely reduces excitotoxin damage in nucleus basalis: cortical cholinergic losses & mortality. *J. of Neurosci. Res.* 20:479-483, 1988.

Karpiak, S.E. and Mahadik, S.P. Acute ganglioside effects: reduced mortality after global ischemia. In "Approaches to the Treatment of Brain and Spinal Cord Injury" (eds. Sabel and Stein), Raven Press, 219-231 (1988).

Karpiak, S.E., Li, Y.S. and Mahadik S.P. Ischemic injury reduced by GM1 ganglioside. In *New Trends in Ganglioside Research: Neurochemical and Neuroregenerative Aspects*. Hogan, Ledeen, Ki, Neff, Tettamanti and Yates and Yu (Raven Press), 549-556, 1988.

Mahadik, S.P., Laev, H., Korenovsky, A., Karpiak, S.E. Haloperidol alters rat CNS cholinergic system: enzymatic and morphological analyses. *Biol. Psychiatry* 24:199-217, 1988.

Mahadik, S.P., Vilim, F., Korenovsky, A., Karpiak, S.E. GM1 ganglioside acutely reduces excitotoxin damage in nucleus basalis: cortical cholinergic losses and mortality. *J. of Neurosci. Res.* 20:479-483, 1988.

Mahadik, Hawver, Hungund, Li & Karpiak. GM1 protects plasma membranes following global ischemia: changes in membrane fatty acids & ATPase. *J. Neuroscience Research* 24:402-412 (1989).

Mahadik, S.P., Hawver, D., Hungund, B.L., Li, Y.S. and Karpiak, S.E. GM1 protects plasma membrane structure and function following global ischemia: changes in membrane fatty acids and ATPase. *J. Neuroscience Research* 24:402-412 (1989).

Mahadik, S.P. and Karpiak, S.E. Gangliosides in treatment of neural injury and disease. *Drug. Dev. Research* 15:337-360 (1989).

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Karpiak, S.E., Hungund, B.L., Wakade, C.G., Bharucha, V. and Mahadik, S.P. GM1 ganglioside protection of plasma membrane structure and function in CNS ischemia. *J. Neurotrauma* 5:251-252, 1989.

Karpiak, S.E. Ganglioside treatment reduces CNS cholinergic injury: a treatment strategy for dementia. In *Pharmacological Interventions on Central Cholinergic Mechanisms in Senile Dementia* (eds. H. Kewitz, T. Thomsen, U. Bickel), S-Verlag, Munich, 1990, pp. 36-44.

Karpiak, SE, and Mahadik, SP. Enhanced cortical maturation: gangliosides in CNS plasticity. in *Progress In Brain Research* 85:299-312 (1990).

Mazzari, S., Karpiak, S.E., Lipartiti, Seren, S., Lazzaro, A., Rubini, R., Koga, T., Fadda, E., Toffano, G., and Leon, A. Monosialoganglioside effects on excitatory amino acid-related neurotoxicity and cerebral ischemia. In *Neurotoxicity of Excitatory Amino Acids*, (ed: A. Guidotti) Raven Press, NY, 1990; pp 281-191 (1990).

Karpiak, S.E. and Mahadik, S.P. Gangliosides and ischemic injury. *CRC Critical Reviews In Neurobiology* (1990) 5:221-237.

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Ramirez, J.J., Fass, B., Valbuena, M., Zengel, D., Wright, P. and Karpiak, S.E. Enhanced recovery of learned alternation in ganglioside-treated rats after unilateral entorhinal cortex lesions. *Behavioral Brain Research*. 7:44-59 (1991).

Karpiak, S.E. Wakade, C.G., Bharucha, V., Mahadik, S.P. GM1 Ganglioside Reduction of Focal Ischemia Injury: Edema, ATPase, K⁺, Na⁺, Ca⁺⁺ Analyses. *J. Neurosci. Res.*, 30, 512-520 (1991).

Bharucha, V., Wakade, C.G. Mahadik, S.P., and Karpiak, S.E. GM1 Treatment Reduces Functional Deficits Associated with Cortical Focal Ischemia: *Exp Neurology*, 9 136-139 (1991).

Mahadik SP, Bharucha V, Stadlin A, Ortiz A, and Karpiak SE: Loss and recovery of α^+ and α isozymes of Na,K-ATPase in Cortical focal ischemia: GM1 ganglioside protects plasma membrane Structure and Function. *J. Neurosci. Res.* 32:209-220 (1992).

Stadlin A, Tsang D, MacDonall JS, Mahadik SP, Karpiak SE. Neuronal-Astrocytic Interactions - Implications for Normal and Pathological CNS Function. Elsevier; 1992.

Stadlin A, Tsang D, MacDonall JS, Mahadik SP, Karpiak SE. An in vitro study on increased neuronal and astrocytic vulnerability to neurotoxic injury after in utero cocaine exposure: the reversal effects of GM1 treatment. *Prog Brain Res* 1992; 94:339-350

Mahadik, S.P., Hungund, b. L. Makar, T. K., Ortiz, A., Gokhale, v. S., Karpiak, S. E., Neuroprotective effects of GM1 treatment following CNS ischemia involve restoration of cellular membrane lipid metabolism and defense against oxy-radical toxicity. *Neurochem. Int.* 9,44-53 (1993).

Mahadik, S. P., Makar, T. K., Murthy, J. N., Ortiz, A, Wakade, C. G., and Karpiak, S. E. Temporal Changes in levels of Superoxide Dismutase, Glutathione Peroxidase and Catalase in Primary and Peri-Ischemic Tissue: Monosialoganglioside (GM1) Treatment Effects. *Molecular and Chemical Neuropathology* 18, 1-14 (1993).

Laev, H., Mahadik, S.P., Bonheur, J.L., Hernandez, N., Karpiak, S.E. GM1 reduces glutamate toxicity in cortical cells: lowered LDH release and preserved membrane integrity. *Molecular and Chemical Neuropathology*. 20, 229-243 (1993)

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Laev, Hungund, Karpiak. Cortical cell plasma membrane alterations after in vitro alcohol exposure: Prevention by GM1 ganglioside. *Alcohol*, 13, pp 187-194 (1996).

Shippy, R.A., Karpiak, S.E. (2004). Does Cognitive Function Impact the Well-being of Today's Aging HIV/AIDS Population? In R.A. Shippy & M.H. Cantor, *Assessing the Realities of Cognitive Impairment in Older Adults Living with HIV/AIDS*. Symposium 57th Annual Scientific Meeting of The Gerontological Society of America, Washington, DC.

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- Reece, M., Tanner, A. E., Karpiak, S. E., & Coffey, K. The impact of HIV-related stigma on HIV care and prevention providers. (2007) *Journal of HIV/AIDS and Social Services*, 6(3), 55-73.
- Brennan, M., Cantor, M., Applebaum, and Karpiak, Contributors to Depressive Symptoms in Older Women with HIV: Health and Psychosocial Stressors; Nova Science Publishers, *Women and Depression* (eds Hernandez and Alanso) pp 275-309 (2009).
- Golub, Parsons, Brennan, and Karpiak Loneliness and HIV-related Stigma Explain Depression Among Older HIV-Positive Adults: at Older Adults and HIV: Psychosocial and Behavioral Factors in Health, APHA (2009).
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- Longmire-Avital, Golub, Parsons, Brennan and Karpiak. Financial strain and life satisfaction among aging Black adults with HIV: at Older Adults and HIV: Psychosocial and Behavioral Factors in Health, APHA (2009).
- Brennan, Karpiak, Shippy, Cantor (eds) *HIV and Older Adults: An Emerging Population*. Nova Science Publishers, 2009.
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SELECTED INVITED LECTURES

Over 250 Invited Lectures have been given at US, European, USSR, China and South American Medical Centers, Universities, Research Institutes and National and International Symposia, and Conferences. A partial listing includes: Gordon Research Conferences, Roche Institute of Molecular Biology; U. of Minn. & The Mayo Clinic; First Int. Cong. On Neuroimmunology; Int. Soc. Neurochemistry; U. Milan Medical School; Int Meeting on Neuronal Plasticity; FIDIA Research Labs/Padova Medical School, Italy; 7th European Neurosci. Cong; Lab. De Neurochimie, INSERM Hopitale de la Salpetriere, Paris; Dept of Neurosurgery, U. of Virginia School of Medicine; Baylor U. Medical School; Int. Symposium on Cellular and Pathological Aspects of Glycoconjugate Metabolism; MIT, Psychology; Int. Meeting on Neurotoxicology (DC); Mt. Sinai School of Medicine (1986, 2005, 2008); Dept. of Anatomy, Tulane Medical School; 2nd World Neuroscience Congress; Dept. of Psychology, Clark U; U Mass. Med. School; American Society for Neuropsychopharm; Academy of Sciences (USSR); Vassar College; 7th World Congress in Neurophysiology; Georgetown Medical School; Int Cong Developmental Brain Research, China; World Conference Clinical Pharmacology & Therapeutics; Brain Research Institute, Summer School, Amsterdam; Symp. Ganglioside & CNS Pathologies, Magdeburg, East Germany; Pan Am. World Neurology Congress New York Medical College; Dept. of Neurochemistry, Rutgers UMDNJ; 2nd World Stroke Congress; Stanford Medical School, UCLA Medical School; Maxwell School Syracuse U; Cornell Weill Medical School; St. Luke's Roosevelt Hospital; St. Vincent's Hospital; Oxford, Cambridge UK; Albert Einstein College of Medicine; U of Virginia Medical School; U. of Milam; Roma University; Duke U; Berlin Frei School; Max Planck Institute; U of Miami Medical; Chinese University; Yale University Medical School; NYU Medical School; Johns' Hopkins Medical; U Washington; Leningrad Science Inst; Manhattan College; Mayo Clinic; ANAC - Association of Nurses in AIDS Care; Grand Rounds Geriatrics: Cornell Medical Center; Grand Rounds Geriatrics: Albert Einstein College of Medicine; Psychiatry Grand Rounds: Johns Hopkins.