

OMB No. 0925-0001/0002 (Rev. 08/12 Approved Through 8/31/2015)

BIOGRAPHICAL SKETCH

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NAME: Vinters, Harry V.

eRA COMMONS USER NAME: vinters2

POSITION TITLE: Professor & Chief of Neuropathology; Distinguished Professor of Pathology & Laboratory Medicine & Neurology

EDUCATION/TRAINING:

| INSTITUTION AND LOCATION | DEGREE (if applicable) | Completion Date MM/YYYY | FIELD OF STUDY |
|--|--------------------------------------|-------------------------------|----------------|
| University College, University of Toronto, Toronto, Canada | B.Sc. | 06/1972 | Cell Biology |
| University of Toronto | M.D. | 06/1976 | Medicine |
| University of Western Ontario Hospitals, London, Canada (Neuropathology specialty training) | F.R.C.P.C (Royal College Cert) | 07/1981 | Neuropathology |

A. Personal Statement

As former Chief of the Section of Neuropathology at UCLA since 1993, a staff Neuropathologist and faculty member since 1985, and leader of the UCLA Alzheimer Disease Research Center (Easton Center) Pathology Core since 1991, I have a total of approx. 35 years of experience in diagnosing CNS and PNS diseases using morphologic and molecular techniques. We have developed a successful (autopsy) brain bank, which has supplied tissues and CSF used in countless investigational programs, resulting in many publications; in the case of collaborative studies, I and sometimes individuals in my laboratory are co-authors of the relevant papers. We were among the first laboratories to develop and refine the use of tissue micro-arrays (TMAs) in the study of non-neoplastic diseases of the CNS; indeed, several publications have resulted from optimal utilization of these TMAs. We have access to brains that have been studied using novel highly sophisticated imaging techniques, e.g. FDG-PET, FDDNP, sometimes in close proximity to death. My laboratory can assist with co-registering of neuropathologic findings with scans, using specific anatomic markers in the brain. We routinely also assist in the processing, sectioning and staining of brain tissue so as to optimize correlations between neuropathologic observations, neurobehavioral abnormalities, and (antemortem) *in vivo* neuroimaging. My laboratory has a long history of testing novel reagents discovered in the course of basic research (in *Drosophila*, mice) in human brain specimens (see publications list). Throughout my career, I have published 600+ peer-reviewed articles and reviews, several of which have been cited 500+ times.

- H.V. Vinters. 1987. Cerebral amyloid angiopathy. A critical review. *Stroke* **18**: 311-324. PMID: 3551211
- Y. Koyanagi, S. Miles, R.T. Mitsuyasu, J.E. Merrill, H.V. Vinters, I.S.Y. Chen. 1987. Dual infection of the central nervous system by AIDS viruses with distinct cellular tropisms. *Science* **236**: 819-822. PMID: 3646751
- J. Goldstine, D.B. Seligson, P. Beizai, H. Miyata, H.V. Vinters. 2002. Tissue microarrays in the study of non-neoplastic disease of the nervous system. *J. Neuropathol. Exp. Neurol.* **61**: 653-662. PMID: 12152780
- S.L. Karsten, T-K. Sang, L.T. Gehman, S. Chatterjee, J. Liu, G.M. Lawless, S. Sengupta, R.W. Berry, J. Pomakian, H.S. Oh, C. Schulz, K-S. Hui, M. Wiedau-Pazos, H.V. Vinters, L.I. Binder, D.H. Geschwind, G.R. Jackson. 2006. A genomic screen for modifiers of tauopathy identifies puromycin-sensitive aminopeptidase as an inhibitor of tau-induced neurodegeneration. *Neuron* **51**: 549-560. PMID: 16950154

B. Positions and Employment

| | |
|--------------|--|
| 1976-77 | Intern, Internal Medicine, Univ. of Alberta Hospital, Edmonton, Alberta, Canada |
| 1977-81 | Resident in Neuropathology, Univ. of Western Ontario Hospitals, London, Ontario, Canada |
| 1981 (07-12) | Resident in Pediatric Neuropathology, Vancouver Gen. Hospital and Univ. of British Columbia, Vancouver, B.C, Canada |
| 1982 (01-08) | Research Fellow in Pathology (Neuropathology), Univ. of Iowa Hospitals and Clinics, Iowa City, IA |
| 1982 (09)-83 | Research Fellow in Pathology (Neuropathology), Univ. of California, Los Angeles, California, 90024, USA (Supervisor Pasquale A. Cancilla) |
| 1984-85 | Assistant Professor of Pathology, Univ. Hospital and Univ. of Western Ontario, London, Ontario, Canada. Attending Neuropathologist, University Hospital |
| 1984-85 | Assistant Professor of Clinical Neurological Sciences, Univ. Hospital and Univ. Western Ontario, London, Ontario, Canada |
| 1985-89 | Assistant Professor of Pathology and Member, Brain Research Institute, UCLA, Los Angeles, CA 90095; Active Staff, UCLA Medical Center |
| 1989-93 | Associate Professor of Pathology and Laboratory Medicine and Member, Brain Research Institute, UCLA |
| 1993-present | Professor of Pathology and Lab Medicine, David Geffen School of Medicine at UCLA & Chief, Section of Neuropathology, UCLA Medical Center; Member, Brain Research Institute; promoted to 'above scale' (Distinguished Professor), 2013. |
| 1997, 2004 | Visiting/Rotary Professor of Neurology (Alzheimer Studies) Leiden University Medical Center, Leiden, The Netherlands (total of 9 months—6 in 1997, 3 in 2004) |
| 2000- | Professor of Neurology, David Geffen School of Medicine at UCLA (cross-appointment) |
| 2005- 2010 | Daljit S. & Elaine Sarkaria Chair in Diagnostic Medicine (term endowed chair) |
| 2016- | Distinguished Professor Emeritus of Pathology & Lab Medicine, & Neurology, David Geffen SOM at UCLA |

Honors and Awards

Desmond Magner Award, Canadian Tumor Reference Center, National Cancer Institute of Canada (1980)

R. Samuel McLaughlin Foundation Fellowship (1981)
Ontario (Canada) Heart Foundation Stroke Research Fellowship (1982-84)
Co-winner, Honorable mention, Weil Award in Experimental Neuropathology, American Association of Neuropathologists (1983)
Canadian Heart Foundation Scholarship (1984-85)
John Douglas French Foundation/Wilson Foundation Fellowship (1988-89)
Editor-in-Chief, '*Brain Pathology*' (Official journal of the Int'l Society of Neuropathology), 2001-2006
Research Award, Alzheimer's Association of Los Angeles, Riverside and San Bernardino Counties (2002)
President, American Association of Neuropathologists (2004-2005)
Moore Award in Clinicopathologic Correlation, American Association of Neuropathologists Annual Meeting, San Antonio, Texas, June, 2009 (senior author of winning paper)
Distinguished Professor (Above Scale) of Pathology & Laboratory Medicine, and Neurology, 2013
Frequent *ad hoc* NIH reviewer (NIA, NINDS, NIDA), since 1986
Meritorious Contributions to Neuropathology, award given by the AANP, 2017
Alfred Meyer Medical and Memorial Lecture, British Neuropathological Society, March, 2017

C. Contributions to Science

I have made contributions to several areas of translational and basic neuroscience, including neuroAIDS, the interface between vascular and parenchymal dementias (including "*mixed*" dementias), neuropathologic substrates of intractable (pediatric) epilepsy, and characterizing neuropathologic abnormalities in various animal models of stroke, including stroke treated by endovascular procedures. The results of several of these endeavours will be briefly presented.

1. NeuroAIDS: Our group was among the first to publish a comprehensive review of the neuropathologic substrates of AIDS and HIV infection, early in the epidemic (mid-1980s). We subsequently characterized effects of cytomegalovirus (CMV) infection in both the central and peripheral nervous systems (CNS, PNS), and published a highly cited review of progressive multifocal leukoencephalopathy (PML), a major neurologic complication of AIDS ; some of this work was done by Dr. Marcia Cornford and Dr. Regina Graefin von Einsiedel, postdoctoral Fellows in the laboratory. In 1987 we contributed to the isolation and characterization of the first neurotropic strain of HIV (see *Science* paper listed under 'Personal statement' above). Our more recent efforts in the area of NeuroAIDS have been in collaboration with the San Diego HIV Neurobehavioral Research Center (HNRC) group, especially the research laboratory of Dr. Cris Achim. I have also been in charge of the autopsy program in the longstanding Multi-Center AIDS Cohort Study (MACS). Selected publications are listed.

- K.H. Anders, W.F. Guerra, U. Tomiyasu, M.A. Verity, *H.V. Vinters*. 1986. The neuropathology of AIDS—UCLA experience and review. *Am. J. Pathology* 124: 537-558. PMID: 2876640; PMCID: PMC1888341
- *H.V. Vinters*, M.K. Kwok, H.W. Ho, K.H. Anders, U. Tomiyasu, W.L. Wolfson, F. Robert. 1989. Cytomegalovirus in the nervous system of patients with the acquired immune deficiency syndrome. *Brain* 112 (pt 1): 245-268. PMID: 2537131
- M.E. Cornford, H.W. Ho, *H.V. Vinters*. 1992. Correlation of neuromuscular pathology in acquired-immune-deficiency syndrome patients with cytomegalovirus infection and zidovudine treatment. *Acta Neuropathologica* 84: 516-529. PMID: 1334328
- R. von Einsiedel, T.D. Fife, A.J. Aksamit, M.E. Cornford, D.L. Secor, U. Tomiyasu, H.H. Itabashi, *H.V. Vinters*. 1993. Progressive multifocal leukoencephalopathy in AIDS—a clinicopathological study and review of the literature. *J. Neurol.* 240: 391-406. PMID: 8410079

2. Parenchymal vs. vascular (and '*mixed*') dementias: I have had an interest in cerebral microvascular disease since Neuropathology Fellowship, during which I studied cerebral amyloid angiopathy (CAA) as a cause of hemorrhagic stroke in the elderly. In 1987, I published a major review article on CAA (see "*Personal statement*" publications above), which summarized the world literature on this enigmatic microvasculopathy, and defined new research questions pertinent to its effects on the CNS. For many years, I was involved with a Program Project Grant (P01 AG 12435; PI Dr. Helena C. Chui, USC/ I was in charge of the Neuropathology Core for the P01's entire duration, and PI on a project during the first 5-year cycle of this grant—the grant ended in 2013). The focus of this P01 was on

unique correlations among neuropsychological observations in patients with cerebrovascular risk factors, neuroimaging abnormalities, and neuropathologic findings in affected individuals who came to autopsy, focusing especially on cerebral microvascular disease. My own laboratory published several studies on the basic biology of cerebral microvascular smooth muscle cells (SMCs) and how they might be involved in microvasculopathies, including CAA and hypertensive disease leading to stroke. We also collaborated with laboratories examining Tg/KO mouse models of Alzheimer disease in which CAA was a major phenotype.

- G.W. Small, V. Kepe, L.M. Ercoli, P. Siddarth, S.Y. Bookheimer, K.J. Miller, H. Lavretsky, A.C. Burggren, G.M. Cole, *H.V. Vinters*, P.M. Thompson, S.-C. Huang, N. Satyamurthy, M.E. Phelps, J.R. Barrio. 2006. PET of brain amyloid and tau in mild cognitive impairment. *New England J. of Medicine* **355**: 2652-2663. PMID: 17182990
- H.C. Chui, C. Zarow, W.J. Mack, W.G. Ellis, L. Zheng, W.J. Jagust, D. Mungas, B.R. Reed, J.H. Kramer, C.C. DeCarli, M.W. Weiner, *H.V. Vinters*. 2006. Cognitive impact of subcortical vascular and Alzheimer's disease pathology. *Annals of Neurol.* **60**: 677-687. PMID: 17192928; PMCID: PMC1851933
- N. Zelcer, N. Khanlou, R. Clare, Q. Jiang, E.G. Reed-Geaghan, G.E. Landreth, *H.V. Vinters*, P. Tontonoz. 2007. Attenuation of neuroinflammation and Alzheimer's disease pathology by liver x receptors. *Proc Natl Acad Sci USA* **104**: 10601-10606. PMID: 17563384; PMCID: PMC1890560
- W.J. Jagust, L. Zheng, D.J. Harvey, W.J. Mack, *H.V. Vinters*, M.W. Weiner, W.G. Ellis, C. Zarow, D.Mungas, B.R. Reed, J.H. Kramer, N. Schuff, C. DeCarli, H.C. Chui. 2008. Neuropathological basis of Magnetic resonance images in aging and dementia. *Annals of Neurol.* **63**: 72-80. PMID: 18157909; PMCID: PMC2624571
- V. Soontornniyomkij, M.D. Lynch, S. Mermash, J. Pomakian, H. Badkoobehi, R. Clare, *H.V. Vinters*. 2010. Cerebral microinfarcts associated with severe cerebral beta-amyloid angiopathy. *Brain Pathology.* **2**: 459-67. PMID: 19725828; PMCID: PMC3127860

3. Neuropathologic substrates of intractable epilepsy (especially pediatric): UCLA was one of the first epilepsy surgery centers to start operating on infants and children with intractable epilepsy (1986). This yielded fascinating corticectomy specimens, which were the focus of intense study in the UCLA Neuropathology laboratory. The majority of these corticectomies (especially when originating in young children) showed features of 'malformations of cortical development', 'neuronal migration disorders/NMDs', or 'cortical dysplasia/CD'. My laboratory published some of the first papers summarizing the spectrum of abnormalities in these unique specimens. An observation (that did not originate with us but was supported by our work) was that the most severe cases of CD were essentially identical to the tubers of tuberous sclerosis complex (TSC). In the 1990s, two major genes—*TSC2* and *TSC1*—associated with TSC were cloned. Our laboratory developed some of the first probes and antibodies to look for the distribution of *TSC1* and *TSC2* gene products (hamartin/ tuberlin) in human tissues—studies in which several undergraduate and graduate students (Michael Menchine, Michael Johnson, Michael Catania) were heavily involved. Eventually this led to molecular genetic studies of surgically resected tubers, and collaborative work (with Dr. David Kwiatkowski in Boston) characterizing an early mouse model of TSC.

- M.A. Farrell, M.J. DeRosa, J.G. Curran, D.L. Secor, M.E. Cornford, Y.G. Comair, W.J. Peacock, W.D. Shields, *H.V. Vinters*. 1992. Neuropathologic findings in cortical resections (including hemispherectomies) performed for the treatment of intractable childhood epilepsy. *Acta Neuropathol.* **83**: 246-259. PMID: 1557956
- M.W. Johnson, J.K. Emelin, S.H. Park, *H.V. Vinters*. 1999. Co-localization of *TSC1* and *TSC2* gene products in tubers of patients with tuberous sclerosis. *Brain Pathol.* **9**: 45-54. PMID: 9989450
- H. Miyata, A.C. Chiang, *H.V. Vinters*. 2004. Insulin signaling pathways in cortical dysplasia and TSC-tubers. Tissue microarray analysis. *Ann. Neurol.* **56**: 510-519. PMID: 15455398
- W. Qin, J.A. Chan, *H.V. Vinters*, G.W. Mathern, D.N. Franz, B.E. Taillon, P. Bouffard, D.J. Kwiatkowski. 2010. Analysis of TSC cortical tubers by deep sequencing of *TSC1*, *TSC2* and *KRAS* demonstrates that small second-hit mutations in these genes are rare events. *Brain Pathol.* **20**: 1096-1105. PMID: 20633017; PMCID: PMC2951479
- J. Goto, D.M. Talos, P. Klein, W. Qin, Y.I. Chekaluk, S. Anderl, I.A. Malinowska, A. Di Nardo, R.T. Bronson, J.A. Chan, *H.V. Vinters*, S.G. Kernie, F.E. Jensen, M. Sahin, D.J. Kwiatkowski. Regulable neural progenitor-specific *Tsc1* loss yields giant cells with organellar dysfunction in a model of tuberous sclerosis complex. *Proc. Nat'l Acad. Sci. USA* **108**: E1070-1079. PMID: 22025691; PMCID: PMC3214999

D. Research Support.

Ongoing Research Support

Completed Research Support

Title: UCLA Alzheimer Disease Research Center

Period: 4/1/10-3/31/15

PI: Dale Bredesen

Type: P50 AG 16570

Project Goals: Research on clinicopathologic features of Alzheimer Disease. Focus of the ADRC is to understand mechanisms and optimize the treatment of AD. The Neuropathology Core is one of several within the Center. The ADRC also funds \$60,000.00 in pilot projects annually.

(HVV is Core Leader for the Neuropathology Core and Brain Bank for the Center)

Title: The Aging Brain: Vasculature, Ischemia & Behavior

Period: 6/1/08 – 5/31/14

PI: Helena Chui; H.V.V. directs Neuropathology Core

Type: P01 AG 12435 – NIH/NIA

Project Goals: The main objective of the program project is to determine how structural changes in the cerebral vasculature affect brain function and behavior in elderly persons. The project is a multi-disciplinary investigation incorporating neuropsychology, neuroimaging and histopathologic modalities, the latter under direction of H. Vinters.

(HVV is PI/Director of the Neuropathology Core for this project)

Title: Optimization of Neuropathologic Assessment of Alzheimer's Disease

Curriculum Vitae--Harry Valdis Vinters, M.D.

Address: **Office:**

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David Geffen School of Medicine at UCLA,
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Home:

1419 Cabrillo Avenue,
Venice (Los Angeles), California **90291-3707**.
phone 310-399-4308 (home), 310-663-7722 (cell)

Personal Background:

Born: Thunder Bay (formerly Port Arthur), Ontario, Canada--December 8, 1950
Marital status: Single
Citizenship: Canadian *and* U.S.A. (*dual citizen*)

Education:

High school: Lakeview High School, Thunder Bay; graduated 1968 (**Gold Medalist**)

University: Undergraduate--University College, University of Toronto,
Toronto, Canada. **B.Sc. in (Cell) Biology**, May, 1972 with **honours standing**
Medical--University of Toronto. **M.D.**, May, 1976

Examinations and Professional Certification:

National Board of Medical Examiners (U.S.A.): Diplomate (1984)--Certificate **#177472**
Licentiate of the Medical Council of Canada (**#43,999**)
American Board of Pathology Certification--**Special Competence in Neuropathology**, May,
1981
Royal College of Physicians & Surgeons of Canada--**Certification in Neuropathology**,
F.R.C.P.C., December, 1981 (Certificate #26)

Post-M.D. Appointments:

- 1976-77: Intern, Internal Medicine, University of Alberta Hospital, Edmonton, Alberta, Canada
1977-81: Resident in Neuropathology, University of Western Ontario Hospitals, London, Ontario, Canada (including one year of training in Neurology and one year of Anatomic Pathology)
1981: (July-December): Resident in Pediatric Neuropathology (with Dr. Margaret G. Norman), Vancouver General Hospital and University of British Columbia, Vancouver, B.C., Canada
1982: (January-August): Research Fellow in Neuropathology, University of Iowa Hospitals and Clinics, Iowa City, Iowa, U.S.A. (Supervisors: Dr. Pasquale A. Cancilla, Dr. Michael N. Hart)
1982-83: Research Fellow in Neuropathology, UCLA Medical Center, Los Angeles, California, U.S.A. (Supervisor: Dr. Pasquale A. Cancilla)
1984-85: Assistant Professor of Pathology, University of Western Ontario, London, Ontario, Canada
1984-85: Assistant Professor of Clinical Neurological Sciences, University of Western Ontario, London, Ontario, Canada (subsequently re-named Western University)
1984-85: Active staff, University Hospital, London, Ontario, Canada
1985-89: Assistant Professor of Pathology & Laboratory Medicine, UCLA, Los Angeles, California, U.S.A.
1989-93: Associate Professor of Pathology & Laboratory Medicine, UCLA, Los Angeles, California, U.S.A.
1993- Professor of Pathology & Laboratory Medicine, UCLA School of Medicine (David Geffen School of Medicine at UCLA since 2003), Los Angeles, California, U.S.A.
1993- Chief, Section of Neuropathology, Dept. of Pathology & Laboratory Medicine, UCLA
2016: Medical Center, Los Angeles, California
1985- Active staff, UCLA Medical Center, Los Angeles, California
1985- Member, Brain Research Institute, UCLA, Los Angeles, California
1989- Deputy Coroner, County of Los Angeles (non-compensated)
1991-98: Consultant in Pathology & Laboratory Medicine (Special Affiliate status), Cedars Sinai Medical Center, Los Angeles, California
1993- Member, Mental Retardation Research Center, UCLA, Los Angeles, California
1997: (January-July): Visiting/Rotary Professor of Neurology (Alzheimer Studies), Leiden University Medical Center, Leiden (AZL), The Netherlands
2000- Professor of Neurology (cross-appointment, without salary), David Geffen School of Medicine, UCLA Medical Center
2004: (February-April): Visiting/Rotary Professor of Neurology (Alzheimer Studies), Leiden University Medical Center, Leiden, The Netherlands
2006-11: *Daljit S. and Elaine Sarkaria Chair* in Diagnostic Medicine, David Geffen School of Medicine at UCLA
2007: Visiting Scholar, Pacific Health Research Institute, Honolulu, Hawaii (supported by the Honolulu Asian Aging Study [HAAS]); November, 2007
2011-13: Visiting Professor, Faculty of Medicine & Surgery, University of Santo Tomas, Manila, The Philippines (visit for 4-6 days every 12-16 months, presented lectures and slide sessions, participated in patient care-related case discussions)
2013-16: *Distinguished* Professor of Pathology & Laboratory Medicine, and Neurology, David Geffen School of Medicine at UCLA (*above scale*)
2016- *Distinguished Professor Emeritus* of Pathology & Laboratory Medicine, and Neurology, David Geffen SOM at UCLA (recall status 07/2016-)

Medical Licensure:

- General licence in Ontario, Canada (#29,513) August, 1977 -- October, 1994 (**currently inactive**)
General licence in California, U.S.A. (**#G54708**) since May, 1985 (**active**)

Awards, Fellowships, etc.:

- Canadian Association of Pathologists Resident Travel Award, 1980
Desmond Magner Award, Canadian Tumour Reference Center, National Cancer Institute of

Canada, 1980
R. Samuel McLaughlin Foundation Fellowship, 1981
Ontario Heart Foundation Stroke Research Fellowship, 1982-84
Recipient (co-author), Honorable Mention, Weil Award in Experimental Neuropathology,
American Association of Neuropathologists, 1983
Canadian Heart Foundation Scholarship, 1984-85
John Douglas French Foundation/Wilson Foundation Fellowship, 1988-89
Recipient, Deutscher Akademischer Austauschdienst (DAAD)/German Academic Exchange
Service Study Visit Fellowship, May, 1993--study period spent with Prof. Heiko Braak,
Johann Wolfgang Goethe-Universitat, Frankfurt, Federal Republic of Germany
Research Award, Alzheimer's Association of Los Angeles, Riverside & San Bernardino
Counties, June, 2002
Recipient (senior author), Honorable Mention, Lucien J. Rubinstein Award, American
Association of Neuropathologists, 2003
President, American Association of Neuropathologists, 2004-2005
Recipient (senior author), Moore Award (Clinicopathologic Correlation), American Association
of Neuropathologists, 2009
Alfred Meyer Medal, British Neuropathological Society, March, 2017
Meritorious Contributions to Neuropathology Award, American Association of
Neuropathologists, June, 2017

Society Memberships:

Canadian Association of Neuropathologists (1982-)
American Association of Neuropathologists (1984-)
Irish Neurological Association (1994-)
Fellow, College of American Pathologists (1996-2010, 2014-)
Member, Faculty of Pathology, Royal College of Physicians, Ireland (1997-)
American Neurological Association (*elected* 2001-)

Publications--Journal Articles (peer-reviewed):

1. H. Vinters. 1975. Membrane diseases? Some new ideas about idiopathic neurological disorders. University of Toronto Medical Journal 52(3):49-51.

2. H. Vinters, J. Dainty, M.T. Tyree. 1977. Cell wall elastic properties of Chara corallina. Canadian J. of Botany 55(14):1933-1939.

3. H.V. Vinters, H.J.M. Barnett, J.C.E. Kaufmann. 1980. Subdural hematoma of the spinal cord and widespread subarachnoid hemorrhage complicating anticoagulant therapy. Stroke 11(5):459-464.

4. H.V. Vinters, J.J. Gilbert. 1981. Neurenteric cysts of the spinal cord mimicking multiple sclerosis. Canadian J. of Neurol. Sci. 8(2):159-161.
5. H.V. Vinters, G. Debrun, J.C.E. Kaufmann, C.G. Drake. 1981. Pathology of arteriovenous malformations embolized with isobutyl-2-cyanoacrylate (bucrylate). J. Neurosurg. 55:819-825.

6. H.V. Vinters, J.J. Gilbert. 1982. Multifocal choromas of the brain. Surgical Neurology 17:47-51.
7. H.V. Vinters, J. Murphy, B. Wittmann, M.G. Norman. 1982. Intracranial teratoma: antenatal diagnosis at 31 weeks' gestation by ultrasound. Acta Neuropathologica (Berlin) 58:233-236.

8. H.V. Vinters, J.C.E. Kaufmann, C.G. Drake. 1983. 'Foreign' particles in encephalic vascular malformations. Arch. Neurology 40(4):221-225.
9. D.W. Beck, H.V. Vinters, M.N. Hart, F.A. Henn, P.A. Cancilla. 1983. Uptake of adenosine into cultured cerebral endothelium. Brain Research 271:180-183.
10. D.W. Beck, H.V. Vinters, S.A. Moore, M.N. Hart, P.A. Cancilla. 1983. Uptake of adenosine by cultured cerebral vascular smooth muscle cells. J. Neurochemistry 41:939-941.
11. J.J. Gilbert, H.V. Vinters. 1983. Cerebral amyloid angiopathy: incidence and complications in the aging brain. I. Cerebral hemorrhage. Stroke 14:915-923.
12. H.V. Vinters, J.J. Gilbert. 1983. Cerebral amyloid angiopathy: incidence and complications in the aging brain. II. The distribution of amyloid vascular changes. Stroke 14:924-928.

13. N.A. Azzam, J.V. Bready, H.V. Vinters, P.A. Cancilla. 1984. Spontaneous spongy degeneration of the mouse brain. J. Neuropathol. Exp. Neurology 43:118-130.
14. D.W. Beck, H.V. Vinters, M.N. Hart, P.A. Cancilla. 1984. Glial cells influence polarity of the blood-brain barrier. J. Neuropathol. Exp. Neurology 43:219-224.
15. D.W. Baker, H.V. Vinters. 1984. Hydrocephalus with cerebral aqueductal dysgenesis and craniofacial anomalies. Acta Neuropathologica (Berlin) 63:170-173.
16. D.W. Beck, H.V. Vinters, S.A. Moore, M.N. Hart, F.A. Henn, P.A. Cancilla. 1984. Demonstration of adenosine receptors on mouse cerebral smooth muscle membranes. Stroke 15:725-727.

17. K.D. Steinsapir, H.V. Vinters. 1985. Central pontine myelinolysis in a child with the Shwachman-Diamond syndrome. Human Pathology 16:741-743.
18. M.J. Lundie, D. Ellyatt, J.C.E. Kaufmann, H.V. Vinters. 1985. Staining procedure to aid in assessment of bucrylate histotoxicity in tissue sections. Arch. Pathology Lab. Medicine 109:779-781.

19. H.V. Vinters, K.A. Galil, M.J. Lundie, J.C.E. Kaufmann. 1985. The histotoxicity of cyanoacrylates. A selective review. *Neuroradiology* 27:279-291.
***** Cited in *The Year Book of Neurology and Neurosurgery, 1987, (eds. R.N. DeJong, R.D. Currier, R.M. Crowell), Year Book Medical Publishers, Chicago, pp. 463-465.***
20. H.V. Vinters, D.W. Beck, J.V. Bready, K. Maxwell, J.A. Berliner, M.N. Hart, P.A. Cancilla. 1985. Uptake of glucose analogues into cultured cerebral microvessel endothelium. *J. Neuropathol. Exp. Neurology* 44:445-458.
21. H.V. Vinters, J.A. Berliner, D.W. Beck, K. Maxwell, J.V. Bready, P.A. Cancilla. 1985. Insulin stimulates DNA synthesis in cerebral microvessel endothelium and smooth muscle. *Diabetes* 34:964-969.

22. L.C. Ang, D.W. Zochodne, G.C. Ebers, J.C.E. Kaufmann, H.V. Vinters. 1986. Severe cerebellar degeneration in a patient with T-cell lymphoma. *Acta Neuropathologica (Berlin)* 69:171-175.
23. A. Costantino, H.V. Vinters. 1986. A pathologic correlate of the 'steal' phenomenon in a patient with cerebral arteriovenous malformation. *Stroke* 17:103-106.
24. H.V. Vinters, M.J. Lundie, J.C.E. Kaufmann. 1986. Long-term pathological follow-up of cerebral arteriovenous malformations treated by embolization with bucrylate. *New England J. of Medicine* 314:477-483.
25. K. Anders, K.D. Steinsapir, D.J. Iverson, B.J. Glasgow, L.J. Layfield, W.J. Brown, P.A. Cancilla, M.A. Verity, H.V. Vinters. 1986. Neuropathologic findings in the acquired immunodeficiency syndrome (AIDS). *Clinical Neuropathology* 5:1-20.
26. A.J. Hudson, H.V. Vinters, R.C. Povey, L.A. Hatch, D.H. Percy, J.H. Noseworthy, J.C.E. Kaufmann. 1986. An unusual form of motor neuron disease following a cat bite. *Canadian J. of Neurol. Sci.* 13:111-116.
27. K. Maxwell, H.V. Vinters, J.A. Berliner, J.V. Bready, P.A. Cancilla. 1986. Effect of inorganic lead on some functions of the cerebral microvessel endothelium. *Toxicology Appl. Pharmacology* 84:389-399.
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S.D. Magaki, *H.V. Vinters*. 'Tuberous sclerosis complex' (Chapter 11, pp. 117-132).
S.D. Magaki, R. Tashjian, *H.V. Vinters*. 'Pediatric vascular malformations' (Chapter 24, pp. 251-268).
H.V. Vinters, S.D. Magaki, G.C. Owens. 'Rasmussen encephalitis' (Chapter 43, pp. 531-536).

CAA Katerina book

Publications--Books (written, co-authored, edited, or as major contributor):

1. H.V. Vinters, K.H. Anders. 1990. Neuropathology of AIDS. CRC Press, Inc., Boca Raton, Florida, 229 pp.
2. **D. Ellison, S. Love** [senior editors], L. Chimelli, G.W. Roberts, B. Harding, J. Lowe, H.V. Vinters. 1998. Neuropathology. A Reference Text of CNS Pathology. Mosby International, London, England.
***This book was awarded **The Medical Society of London Medical Book Award** of the Medical Writers Group of the Society of Authors, United Kingdom (1998) in the category of 'Advanced Edited Book'.
3. H.V. Vinters, M.A. Farrell, P.S. Mischel, K.H. Anders. 1998. Diagnostic Neuropathology. Marcel Dekker, New York, 669 pp.
4. M.M. Verbeek, R.M.W. de Waal, H.V. Vinters (editors). 2000. Cerebral Amyloid Angiopathy in Alzheimer's Disease and Related Disorders. Kluwer Academic Publishers, Dordrecht, The Netherlands, 357 pp.
5. Acknowledged contributor to: J.L. Cummings. 2003. The Neuropsychiatry of Alzheimer's Disease and Related Disorders. Martin Dunitz, London, 311 pp.
6. **D. Ellison, S. Love** [senior editors], L. Chimelli, B.N. Harding, J. Lowe, H.V. Vinters. 2004. Neuropathology. A Reference Text of CNS Pathology. (Second edition). Mosby, Edinburgh-London, 754 pp.
***"Highly Commended" in the category of 'New edition authored book' by The Society of Authors & The Royal Society of Medicine Book Awards, U.K., 2004.
7. **D. Ellison, S. Love** [senior editors], L. Chimelli, B.N. Harding, J.S. Lowe, H.V. Vinters, S. Brandner, W.H. Yong. 2013. Neuropathology. A Reference Text of CNS Pathology. (Third edition). Mosby Elsevier, Edinburgh-London-New York, 879 pp.

Publications--Letters/Correspondence:

1. H.V. Vinters, J.R.A. Leushner. 1984. Letter to the editor. *Stroke* 15:918.
2. D.G. Davtayan, H.V. Vinters. 1987. Wernicke's encephalopathy in AIDS patient treated with zidovudine. *Lancet* 1:919-920.
3. H.V. Vinters. 1987. The AIDS dementia complex. *Annals of Neurology* 21:612.
4. H.V. Vinters, K.H. Anders. 1987. Lymphomatoid granulomatosis and the acquired immunodeficiency syndrome (AIDS). *Ann. Internal Medicine* 107:945.
5. H.V. Vinters. 1989. AIDS, cytomegalovirus, and the brainstem. *Annals of Neurology* 25:311-312.
6. K.H. Anders, H. Latta, H.V. Vinters. 1989. Letter to the editor (reply). *Human Pathology* 20:1224.
7. H.V. Vinters. 1991. Alzheimer A4 peptide, gamma-trace, leukoencephalopathy, and hereditary cerebral hemorrhage with amyloidosis--Dutch type. Reply. *Annals of Neurology* 29:341-342.
8. M.A. Farrell, L. Cheng, M.E. Cornford, W.W. Grody, H.V. Vinters. 1991. Cytomegalovirus and Rasmussen's encephalitis. *Lancet* 337:1551-1552.
9. H.V. Vinters, M.A. Farrell. 1995. Rasmussen's syndrome. *Neurology* 45:1239-1240.
10. J.A.R. Nicoll, C. Burnett, S. Love, D.I. Graham, J.W. Ironside, H.V. Vinters. 1996. High frequency of apolipoprotein E epsilon2 in patients with cerebral hemorrhage due to cerebral amyloid angiopathy. *Ann. Neurology* 39:682.

11. H.V. Vinters, C. Kerfoot, J.K. Emelin. 1997. Tuberin loss from cerebral tissues. *Ann. Neurology* 42:270-271.
12. H.V. Vinters, W.G. Ellis, W.J. Jagust, C. Zarow, B.W. Zaias, H.C. Chui, W.J. Mack. 2001. Response to letter by K. Jellinger. *J. Neuropathol. Exp. Neurol.* 60:659.

Miscellaneous Scientific /Medical /Public Service Publications:

1. ASCP Check Sample: Surgical Pathology II. No. SPII 99-1 (SPII-245). Lymphoid hypophysitis, by K.H. Anders & H.V. Vinters. Volume 23, #1, 1999.
2. "Dear Reader" columns as (Executive) Editor-in-Chief of ***Brain Pathology***.....
January, July, October, 2001; January, July, October, 2002; January, April, July, 2003;
January, April, July, October, 2004; January, April, October, 2005; January, April,
July, October, 2006.

Publications--Book Reviews (BRs) and Miscellaneous (non-peer reviewed) items:

1. H.V. Vinters. 1986. 'The neuron and the glial cell'. *Canadian J. Neurol. Sci.* 12(3):283. (BR)
2. H.V. Vinters. 1987. 'Amyloidosis'. *Neurology* 37:1891. (BR)
3. H.V. Vinters. 1998. 'Apolipoprotein E and Alzheimer's Disease'. *Alzheimer Dis. & Assoc'd Disorders* 12:58-59. (BR)
4. H.V. Vinters. 2004. 'The blood-brain barrier. Biology and research protocols. *Methods in molecular medicine.*' *J. Alzheimer's Disease* 6: 453. (BR)
5. H.V. Vinters. 2004. In Memoriam: Uwamie Tomiyasu. *J. Neuropathol. Exp. Neurol.* 63: 1208-1209.
6. H.V. Vinters. 2006. Tribute to Dr. Suzanne S. Mirra. *J. Neuropathol. Exp. Neurol.* 65: 422.
7. H.V. Vinters. 2008. Tribute to Dr. Margaret G. Norman. *J. Neuropathol. Exp. Neurol.* 67: 1214-1215.

Publications--Community Service/ Lay press/ Miscellaneous (**most recent** articles listed **first**):

Newspaper/periodical abbreviations: OCR=Orange County Register; SDU=San Diego Union-Tribune; LADN=Daily News (Los Angeles); LA Times=Los Angeles Times.

Lives lived. Memorial tribute to Prof. Emma Irene Grodums. Toronto (Canada) *Globe & Mail*, October 1, 2007.

We should praise America's tireless work with Aids and focus criticism on African dictators. *Financial Times* (London) June 16, 2003, p. 18 (letter/editorial).

Sanford's anger. *LA Times* March 15, 2003, p. E4 (letter).

Teaching hospitals becoming financially ill. *Riverside Press-Enterprise* July 17/2000, p. A-9.

Turning point on AIDS? *LADN* Feb. 6/96, p. 19.

Medical Centers still vital. *Riverside Press-Enterprise* May 7/95, p. A-23.

Is it possible to satisfy the AIDS lobby? OCR Sept. 4/94, Commentary p.3.

Risk of mischief in clinical research. SDU June 15/94, p.B-5.

Do cloning's risks justify societal control? 'Twinning' research is gadgetry at best. LADN October 31/93, Viewpoint p. 1.

Fed-bashing on AIDS funding is unfair. LAT October 11/93, Calendar p. F3.

There's no shortage of AIDS funding. LADN August 20/93, Opinions p. 20 (syndicated).

Canada: easy to love but no place to live. The (Toronto/Canada) Globe & Mail, August 17, 1992, p. A19.

Perspective on Medicine--Lovely promises, down the road. LAT December 30, 1991 (syndicated).

Don't ignore animal-rights issue. Santa Monica Outlook June 17, 1991, p. A10.

Peer-reviewed Grant Support: (H.V.V. is/was P.I. unless otherwise indicated)

1. University Hospital (London, Ontario, Canada) Pooled Research Fund: \$3,500 (1984).
2. Ontario (Canada) Heart Foundation: \$48,350 (1984-85): "Interactions between cerebral microvessel endothelium and smooth muscle in culture; Effects of insulin on microvessel endothelium and smooth muscle". (AN 115).
3. University Hospital (London, Ontario, Canada) Pooled Research Fund: \$3,000 (1985): "Ultrastructure of encephalic AVM's". (held jointly with Dr. J.C.E. Kaufmann).
4. American Heart Association--Greater Los Angeles Affiliate, Inc.: \$19,603 (1986-87): "Structural change in cerebral vessels after vasospasm". (850 G1-1).
5. UCLA Biomedical Research Support Grant: \$24,400 (1986-87): "Chronic injury to the blood-brain barrier".
6. American Heart Association--Greater Los Angeles Affiliate, Inc.: \$20,000 (1987-88; renewed 1988-89): "The effect of pharmacologic blockade of glutamate action on ischemic neuronal injury in vitro". (872 G1-1). H.V.V. was associate investigator, P.I. was Dr. Neil A. Martin, Division of Neurosurgery, UCLA-CHS.
7. American Foundation for AIDS Research: \$29,042 (1987-88): "Ocular microvasculopathy in AIDS". (#00369).
8. John Douglas French Foundation/Wilson Foundation: \$60,000 (1988-89): "Chronic blood-brain barrier injury: a pathogenetic mechanism in Alzheimer's disease". (#W-P871203).
9. NIH/NINCDS FIRST Award: Direct costs \$334,000 (1988-93): "Characterization of cerebral amyloid angiopathic peptides". (R29 NS 26312). Extended through 1994.
10. NIH/NIA: "Dizziness in older people". Direct costs approx. \$1,813,000 (1990-1995). P.I. Dr. Robert W. Baloh, Neurology, UCLA-CHS. H.V.V. component 5% of effort, on morpho-logic studies. (R01 AG09693). Provided partial support for Neuropathology Fellow.
11. NIH/NIA: "Alzheimer's disease center core grant". Direct costs recommended \$2,017,853 (1991-1996; renewed 1996-2001). P.I. Dr. Jeffrey L. Cummings, Neurology, UCLA-CHS. H.V.V. was Director of Neuropathology core at 10% of effort. (P30 AG10123). This grant

superseded by Alzheimer Disease Research Center grant **#P50 AG16570** (see below).

12. NIH/NINDS: "The pediatric epilepsy surgery research program". Total direct costs approx. \$3,300,000 (1992-1997). P.I. was Dr. W. Donald Shields, Neurology & Pediatrics, UCLA-CHS. H.V.V. was co-P.I. on project #6 (with Dr. Robin S. Fisher, MRRC, UCLA) at 10% of effort. P.I. on project #6 effective 9/1995 to end of grant (P01 NS28383).
13. UCLA Ladies' Auxiliary (Equipment) Grant for approx. \$24,000 to establish CFAR Core Tissue Processing Laboratory, 1992-93.
14. Deutscher Akademischer Austauschdienst (DAAD)--German Academic Exchange Service study fellowship, May, 1993--DM 3,300.--. (Study leave was carried out with Prof. Heiko Braak, Klinikum der Johann Wolfgang Goethe-Universität, Frankfurt am Main, Germany).
15. NIH/NIA: "The aging brain: Vasculature, ischemia and behavior". Total direct costs approx. \$6,446,000 (1994-1999). P.I. Dr. Helena Chui, Geriatric Neurobehavior and Alzheimer Center, Rancho Los Amigos/USC Medical Center. The grant is a California-wide consortium. H.V.Vinters was P.I. on project #4, "CSF correlates and complications of cerebral amyloid angiopathy" (10% of effort) and P.I. of the Neuropathology core (Core C) (10% of effort) (**P01 AG12435**) on the initial submission. **RENEWED** effective 2000 in reconfigured format, with H.V.V. as P.I. of an expanded Neuropathology Core @ **15%** of effort. **RENEWED** through 7/2013. TDC for entire grant approx. \$9,683,000 (Neuropathology Core approx. \$82,000/year).
16. NIH/NHLBI: "Arteriovenous malformations: New endovascular therapies". Total direct costs recommended \$564,000 (12/1/1994-11/30/1997). P.I. Dr. Tarik F. Massoud, Dept. of Radiological Sciences, UCLA-CHS. H.V.V. @ 3% of effort on morphologic studies. (R01 HL52352).
17. MUSCULAR DYSTROPHY ASSOCIATION: "Amyotrophic lateral sclerosis research specimen bank". Direct costs \$92,500 (7/1/95-6/30/98). P.I. Dr. Michael C. Graves, Dept. of Neurology, UCLA-CHS. H.V.V. @ 2% of effort. (#M950715).
18. NIH/NIA: "UCLA Alzheimer's Disease Research Center". TDC recommended 4/1/1999-3/31/2004 \$5,226,877. P.I. Dr. Jeffrey Cummings, Neurology, UCLA-CHS. H.V.V. is Chief of Neuropathology Core @ 10% of effort. H.V.V. annual budget: \$68,500 (approx.). (**P50 AG 16570**). Renewed 2004-2009, with H. Vinters as Chief of Neuropathology & Molecular Genetics Core @ 10% of effort. Renewed 2010-2015, TDC all years \$8,382,000 (Neuropathology Core approx. \$77,000/year).
19. Burroughs-Wellcome Travel Grant for study at Beaumont Hospital in Dublin, Ireland, October, 1998--\$5400.00. Project: Immunohistochemical aspects of muscle disease
20. NIH/NIMH: "California NeuroAIDS Tissue Network". 9/30/98-9/29/03. TDC all years \$6,244,000. P.I. Dr. Igor Grant, UC San Diego. H.V.V. was Investigator for UCLA site @ 5% of effort. TDC for Vinters budget 2002-2003: \$7,900.00. (R24 MH59745).
21. PHS/NCI: "Southern California AIDS Malignancy Network". 8/1/98-7/31/02. P.I. Dr. S. A. Miles, UCLA. H.V.V. was Investigator on neuropathologic studies @ 5% of effort. TDC for Vinters budget approx. \$33,000.00 annually (CA 66533).
22. UCLA Center on Aging Pilot Grant. "*Chlamydia pneumoniae* in Alzheimer disease". TDC \$20,000—1999-2000, 5% of effort.
23. Theodore & Vada Stanley Foundation. "Synaptophysin immunoreactivity and limbic morphology in bipolar disorder and alcoholic comorbidity". 7/1/99-6/30/01. P.I. Dr. Mark Frye,

Dept. of Psychiatry & Biobehavioral Sciences; H.V.V. was co-Investigator. TDC \$36,000, total for two years. H.V.V. @ 5% effort.

24. NIH/NINDS: "National Neuro-Aids Tissue Bank". 9/30/98-8/31/03. P.I. Dr. Elyse Singer, Dept. of Neurology, UCLA; H.V.V. was co-Investigator in charge of tissue studies. TDC all years, \$5,007,000. Vinters effort at 10%. (Vinters discontinued participation 10/2001).
25. Burroughs-Wellcome Fund. Secured \$5000.00 grant to host Prof. Michael A. Farrell, from Royal College of Surgeons, Dublin, Ireland as Visiting Professor; March, 2002.
26. NIH/NINDS: "Early Randomized Surgical Epilepsy Trial (ERSET)". 7/02-6/07. P.I. Dr. Jerome Engel, Jr., Dept. of Neurology, UCLA; H.V.V. co-Investigator @5% of effort, in charge of coordinating tissue studies in this multi-center grant. TDC all years approx. \$37,000,000; Vinters TDC included mainly salary support of \$11,280. Project terminated prior to end of grant because of low clinical enrolment.
27. NIA: "Tissue Reactions to CAA: Study Using Tissue Microarrays". 7/02-6/04. (H.V. Vinters was Project Director @ 6% of effort; Dr. Jeff Cummings was P.I., since the grant is awarded through the UCLA ADRC--see item #18 above). TDC both years for UCLA approx. \$78,680. H. Vinters was coordinator for activities in this 3-center grant which also involved UC Irvine & Duke University.
28. UCLA Academic Senate Council grant: "*Development of the subplate region in human cerebrum*". 7/02-6/03. TDC \$1500.00.
29. Alzheimer Disease Research Center pilot grant, "Effects of SUMOylation on APP processing in Alzheimer's disease", 2005-2006. TDC approx. \$30,000.00.
30. UCLA SPOTRIAS grant (**NS 044378**). 2004-09; renewed 2009-14
PI Dr. Jeff A. Saver (H. Vinters Director/PI of TDC approx. \$8,000,000
Blood and Tissue Specimen Core) (Core TDC \$75,000/ year)
31. UC Pediatric Neuropathology Consortium (UC MRPI). 01/01/2010-12/31/2014
PI Dr. Eric Huang; (H. Vinters co-PI /UCLA) TDC all years approx. \$1,760,000
studies at the UCLA site. 01/01/2010- 12/31/2014. (UCLA site \$44,000/ year)
EXTENSION through 2015
32. R13 **AG035492-01**. 01/01/2010-06/30/2010
Funding for UCLA Conference on cerebral amyloid TDC \$20,000
angiopathy and related microangiopathies;

UCLA Dept. of Pathology & Lab Medicine, Translational Research Fund (TRF) support:
2008: "*Thrombectomy treatment of acute thromboembolic stroke: analysis of factors important in failure of the procedure*". TDC \$7,500.00. **Bottini/Helen**

Training Grants:

1. NIH/NIMH Postdoctoral interdisciplinary training in HIV-AIDS (1989-2005). P.I. Dr. Herbert Weiner, Dept. of Psychiatry & Biobehavioral Science, UCLA-CHS; succeeded by Dr. Thomas Newton (2000). H.V.V. served as a preceptor and on admissions committee. (1 T32 MH19200). **Students funded through this grant:** Marcia E. Cornford (1990-92), Sujata Chiplunker (1997-98), Pouneh Beizai (2001-02).
2. NIH/NINDS Postdoctoral training in blood-brain barrier (1994-2002). P.I. Dr. William M. Pardridge, Dept. of Medicine (Endocrinology), UCLA-CHS. H.V.V. served as preceptor (T32 NS07356). **Students funded through this grant:** Zhenzhen Wang (1995-98), Carolyn Li (1998-99), Min Huang (1999-2000), Emad S. Farag (2001-02).

Participation in Symposia, Workshops, etc.; Invited Lectures/Visiting Professorships:

1. Kroc Foundation Conference on Ataxia-telangiectasia, Solvang, California, January 16-20, 1984. Invited speaker: "**Cerebellar pathology in AT: significance of basket cells**".
2. Fourteenth Princeton-Williamsburg Conference on Cerebrovascular Diseases, Williamsburg, Virginia, March 11-13, 1984. Invited participant.
3. Neonatal and Paediatric Pathology Day, University of Western Ontario, London, Ontario, Canada, May 11, 1984. Invited speaker: "**Viruses and neurological diseases in childhood--acute and chronic states**".
4. University of California, Irvine, Pathology Seminar, May 20, 1986. "**The neuropathology of AIDS**".
5. First Canadian Symposium on the Organic Dementias, University of Western Ontario, London, Ontario, Canada, June 24, 1986. Invited speaker: "**The blood-brain barrier in Alzheimer's disease**".
6. Ottawa Civic Hospital, Dept. of Laboratory Medicine, Visitor, October 17-18, 1986. Presentations: Lecture: "**The neuropathology of AIDS**"; Resident seminar: "The neuropathology of stroke".
7. John Douglas French Foundation workshop on the neuropathology of Alzheimer's disease, November 6-7, 1986, Los Angeles, California. Invited speaker: "**The pathogenesis of cerebral congophilic angiopathy**".
8. International Workshop on Hyperinsulinemia as a Possible Risk Factor of Macrovascular Disease in Diabetes Mellitus, Nice/Saint-Paul-de-Vence, France, January 29-30, 1987. Invited speaker: "**The vessel wall as an insulin target tissue**".
9. United States/Canadian Academy of Pathology, March 10, 1987, Chicago, Illinois. Panelist in Specialty Conference/**Neuropathology**.
10. Vancouver General Hospital and Univ. of British Columbia, Dept. of Pathology, Grand Rounds, April 5, 1987. Guest speaker: "**The neuropathology of AIDS**".
11. UCLA Extension, 'Brain tumor: advanced treatment', April 25, 1987. Faculty lecture: "**Interventional neuroradiology--pathologic effects on neoplasms**".
12. UCLA Extension, 'Cerebral arteriovenous malformations: selection of treatment modality', May 21, 1987. Faculty lecture: "**Pathology of AVM's**".
13. NIA-John Douglas French Foundation--ADRC workshop on **vascular dementias**, Los Angeles, June 25-26, 1987. Invited participant/discussant.
14. Los Angeles Society of Pathologists, Inc., Scientific Program, September 8, 1987. Invited speaker: "**Neuropathologic consequences of AIDS**".

15. University of Southern California, Dept. of Pathology Grand Rounds, October 13, 1987. Invited lecture: "**The neuropathology of embolization therapy**".
16. An update on cerebral vascular disease, University Hospital, London, Ontario, Canada, September 27-30, 1987. Canadian Heart Foundation Lecturer: "**The pathological bases of vascular dementias**".
17. UCLA Center for the Health Sciences, School of Medicine, Interdepartmental Conference, November 5, 1987. Moderator and speaker: "**Brain amyloid and Alzheimer's disease**".
18. Lanterman State Hospital and Developmental Center, UCLA Dept. of Psychiatry and Biobehavioral Sciences Grand Rounds, February 5, 1988. Invited lecture: "**CNS complications of AIDS**".
19. John Douglas French Foundation for Alzheimer's Disease (Los Angeles), workshop on "**Neuroimaging in Alzheimer's Disease**". Los Angeles, California, April 4-5, 1988. Invited participant.
20. Sixteenth Princeton Conference on Cerebrovascular Diseases, Miami, Florida, March 17-19, 1988. Invited speaker: "**Vascular dementia: immunocytochemical study of brain microvascular and parenchymal lesions**".
21. UCLA Center for the Health Sciences, School of Medicine, Interdepartmental Conference, December 1, 1988. Speaker: "**Neuropathology of Cerebral AIDS**".
22. Visiting Faculty Member, Mayo Clinic, Rochester, Minnesota, November 17-18, 1988. Two lectures: "**Alzheimer's disease and cerebral amyloid angiopathy**"; "**AIDS and the nervous system**".
23. International Pediatric Epilepsy Surgery Symposium, Coral Gables, Florida, March 8-10, 1989. Invited speaker: "**Pathologic correlates of pediatric epilepsy**".
24. United States and Canadian Academy of Pathology, San Francisco, California, March 5-10, 1989. Invited speaker, long course: "**Amyloid and the CNS. The neurobiology, genetics and immunocytochemistry of a process important in neurodegenerative diseases and stroke**".
25. Canadian Congress of Laboratory Medicine, Ottawa, Ontario, Canada, June 24-28, 1989. Invited speaker: "**Sudden CNS death**" (Sudden Death Symposium); "**Brain amyloid--immunocytochemical and biochemical studies**" (Experimental Pathology Symposium: Pathology of the Organic Dementias).
26. Vancouver General Hospital, Vancouver, Canada: Special lecture--Advances in Pathology, November 6, 1989. "**Amyloid**".
27. UCLA Center for the Health Sciences, School of Medicine, Interdepartmental Conference, December 7, 1989. Speaker: "**Cerebellar and other CNS pathology--Ataxia-telangiectasia as a model disease**".
28. The French Foundation for Alzheimer Research (Los Angeles), workshop on "Silent Vascular Disease, Dementia, and Spectroscopy". Torrance, California, August 3-4, 1990. Invited participant and speaker: "**Gross pathological changes in Alzheimer disease**".
29. University of Montreal, Quebec, Canada. Conference presentation: "**The morphologic substrate of pediatric epilepsy. Studies based on cortical resection specimens**". October 4, 1990.
30. Visiting speaker, University of Alabama at Birmingham Medical Center. Pathology seminar: "**The morphologic substrate of pediatric epilepsy. Studies from focal cortical resections**". October 29, 1990.
31. Visiting speaker, Harbor-UCLA Medical Center, Torrance, California. Dept. of Pathology Grand Rounds: "**Neuropathologic substrates of pediatric epilepsy**". December 14, 1990.

32. American Association of Neuropathologists Annual Meeting, Special Course on "Biology and Pathobiology of the Cerebral Vasculature", Baltimore, Md., June 20, 1991. Invited faculty. Lecture title: "**Cerebrovascular amyloid: pathologic and molecular aspects**".
33. Guest lecture, Cork Regional Hospital, Cork, Ireland: "**Central nervous system in AIDS**". October 30, 1991.
34. The French Foundation for Alzheimer Research workshop on "Brain amyloid and blood and spinal fluid tests for Alzheimer disease", Redondo Beach, California, January 17-18, 1992; co-organizer and invited speaker on "**Pathological issues in diagnosis**".
35. Invited participant, "Workshop on Infantile Spasms", Abbaye de Royaumont, France, May 20-23, 1992. Presented lecture on "**Neuropathology of infantile spasms**".
36. Visiting Professor, Western North Carolina Society for Neuroscience, March 9-10, 1992. Presented a lecture at Wake Forest University Medical Center/The Bowman Gray School of Medicine, March 10, on "**Amyloid and the cerebral blood vessel wall**".
37. Invited participant and chair of Neuropathology panel, The Second International Palm Desert Conference on the Surgical Treatment of the Epilepsies, Indian Wells, California, February 20-24, 1992. Chair, Neuropathology working group. Presented report on "**Postoperative Assessment--Pathology**".
38. Guest speaker, The Richmond Institute of Neurology & Neurosurgery, Beaumont Hospital, Dublin, Ireland. "**Morphologic substrates of paediatric epilepsy**". October 23, 1992.
39. Guest speaker, Neurobehavior Seminar, Dept. of Neurology, UCLA. "**Morphologic substrates of epilepsy**". December 21, 1992.
40. Invited participant, The French Foundation for Alzheimer Research Workshop on "**Parkinsonian Dementia Syndromes**", Redondo Beach, California, October 15-16, 1993.
41. Guest speaker, Neurobehavior Seminar, Dept. of Neurology, UCLA. "**Neuropathology of non-Alzheimer's dementia**". November 8, 1993.
42. Invited speaker, ADRDA of Santa Barbara, California, Inc. "**Recent advances in Alzheimer disease**". November 11, 1993.
43. Invited speaker, Department of Pathology, University of Montreal, Quebec, Canada. "**Structural correlates of epilepsy: What do they tell us about brain development, epileptogenesis and degeneration?**" November 18, 1993.
44. Invited speaker, Project IMAGE/Recherche Alzheimer, Montreal, Canada. "**Cerebral amyloid angiopathy--an interface between degenerative and vascular dementias?**" November 19, 1993.
45. Invited speaker/visitor, Neurology Rounds, Montreal Neurological Institute, Quebec, Canada. "**Morphologic substrates of pediatric epilepsy**". March 4, 1994.
46. Lecture to Medical Staff of La Palma Intercommunity Hospital, La Palma, California, April 21, 1994. "**Diagnosis and treatment of Alzheimer's disease**".
47. Invited seminar presentation, Dept. of Pathology, University of Pittsburgh School of Medicine, April 25, 1994. "**Amyloid angiopathy**".
48. Invited participant/discussant, Hereditary Disease Foundation workshop on "**The Neurobiology of Triplet Repeat Diseases**", Santa Monica, California, June 11-12, 1994.

49. Organizer & speaker, Satellite Symposium IV: "**AIDS and the Nervous System**", 29th Meeting of the Canadian Congress of Neurological Sciences, St. John's, Newfoundland, June 26, 1994.
50. Invited speaker, "Seizures in the First Year of Life", Satellite Conference of 1994 ICNA/CNS Meeting, Vancouver, B.C., Canada, September 28-29, 1994. "**Developmental abnormalities in epilepsy surgery patients**".
51. Invited speaker of the Royal College of Physicians & Surgeons of Canada, 25th Anniversary Celebration of the Dept. of Clinical Neurological Sciences, University of Western Ontario, London, Canada, November 4-5, 1994. "**Recent advances in the cellular neurobiology of pediatric epilepsy**".
52. Visiting faculty member, UAB Medical Center, Birmingham, Alabama, December 13, 1994. Special seminar: "**Pediatric epilepsy--neurobiologic and neuropathologic considerations**".
53. Invited plenary speaker, Sixth International Bethel-Cleveland Clinic Epilepsy Symposium on "**Pediatric Epilepsy Surgery**", Bielefeld, Germany, March 23-26, 1995. Presented Plenary lecture on "The pathologic spectrum in cortical dysplasias" and an evening workshop presentation on "Glial-neuronal pathology in epileptic dysplastic cortex".
54. Invited speaker, Fall meeting, College of American Pathologists, New Orleans, Louisiana; seminar presentation, September 20, 1995: "**Neuropathology of HIV infection**".
55. Invited participant, UCLA Symposium/Workshop on "**The impact of glial biology and immunology on MS and other demyelinating diseases**", November 8-10, 1995.
56. Invited participant, French Foundation workshop on "**The use of twin cohorts for dementia research**", February 8-9, 1996, Redondo Beach, California.
57. Invited participant, "**Frontal dementia workshop**" [sponsored by French Foundation/ Baycrest Centre for Geriatric Care, Toronto], April 13-17, 1996, Cambridge, Ontario, Canada.
58. Visiting professor, Dept. of Clinical Neurosciences, The University of Calgary, Alberta, Canada, May 9-10, 1996. Presented two lectures, "**The relationship of 'sporadic' cortical dysplasia to tuberous sclerosis**", and "**HIV-1: What does it do to the CNS/PNS and to what does it predispose?**".
59. Invited speaker, **Boerhaave Cursus (Course)**, Leiden University Medical Center, The Netherlands, November 22, 1996. "**Vascular pathology in Alzheimer's disease**".
60. Invited participant, "**Epilepsy/Genetics Conference**", Coronado, California, March 21-23, 1997.
61. Invited keynote speaker, symposium on "**Cerebral Amyloidoses in Alzheimer's Disease and HCHWA-D**", Research Inst. Neurosciences, vrije Universiteit Amsterdam, The Netherlands, May 13, 1997. "**Cerebral amyloid angiopathies: common features and complications in the brain**".
62. Invited speaker, Dept. of Neurology, Academisch Medisch Centrum, Universiteit van Amsterdam, The Netherlands, June 16, 1997. "**Cerebral amyloid angiopathy**".
63. Invited participant & speaker, 'Workshop on the Neurobiology of Epilepsy' (WONOEP), Adare, County Limerick, Ireland, June 26-28, 1997. "**Tuberous sclerosis-related gene expression in normal brain and epilepsy**".
64. Invited postplenary speaker, symposium on 'Structure & Function of Epileptogenesis', 22nd International Epilepsy Congress, Dublin, Ireland, June 29-July 4, 1997. "**Neuropathology of catastrophic childhood epilepsy**".

65. Invited participant, John Douglas French Alzheimer's Foundation Workshop on **Sex Hormones & Dementia**, Redondo Beach, California, Feb. 20 and 21, 1998.
66. Invited speaker and panel member, The Cleveland Clinic Foundation **International Epilepsy Surgery Symposium**, Cleveland, Ohio, June, 1998.
67. Invited participant, **Tuberous Sclerosis Complex Consensus Conference**, Annapolis, Maryland, July 10-11, 1998 (Sponsored by National Tuberous Sclerosis Association).
68. Invited participant and Debate Co-Chair, **6th International Conference on Alzheimer's disease**, Amsterdam, The Netherlands, 18-23 July, 1998.
69. Invited speaker, Third Herman Boerhaave Symposium on **Alzheimer's Disease**, Leiden, The Netherlands, 20 November, 1998. Lecture: "**Molecular pathogenesis and complications of sporadic and familial CAA**".
70. Invited participant & speaker, **Vascular Factors in Alzheimer's Disease**, Newcastle-upon-Tyne, UK, May 25-28, 1999. Lecture: "**Cerebral microvasculopathy--cellular approaches to understanding pathogenesis**".
71. Invited speaker, Ninth Congress of the International Psychogeriatric Association, August 15-20, 1999, Vancouver, Canada. Presented a lecture, "**Basic science of aging**" in an advanced course on **Update in Psychogeriatrics**.
72. Moderator & speaker, "**These Lesions Can Give You Fits**", ASCP/College of American Pathologists Fall Meeting Seminar Series, September 26, 1999, New Orleans.
73. Invited speaker, Annual Symposium of the Faculty of Pathology, Royal College of Physicians of Ireland, Dublin, November 12, 1999. "**Alzheimer disease and vascular dementia: Possible links through the cerebral microvasculature**".
74. Merck Frosst Distinguished Lecturer, Department of Clinical Neurosciences Research Day, University of Calgary, April 7, 2000. "**Ischemic vascular dementia and cerebral microvascular disease**".
75. Visiting Professor, Annual Pathology Research Day, Dept. of Pathology, University of Western Ontario, London, Canada, May 12, 2000. "**Cerebral 'angiomyopathies' in stroke and ischemic-vascular dementia**".
76. Invited participant and panel member, The Cleveland Clinic Foundation symposium on "**Cortical Dysplasias & Epilepsy: Pathophysiology, Diagnosis, and Management**", Cleveland, Ohio, June 26-30, 2000.
77. Invited speaker, Pediatric Epilepsy Research Center, University of Washington, conference: "**Epilepsy, Infantile Spasms and Developmental Encephalopathy**", Seattle, September 21-23, 2000. Topic: "**Histopathology of brain from IS patients**".
78. Invited participant and speaker, The First International Conference on Cerebral Amyloid Angiopathy (CAA), Boston, October 5-6, 2000. Lecture: "**Vessel breakdown/interaction**".

with atherosclerosis".

79. Invited participant and lecturer, **XIX Congresso Brasileiro de Neurologia** (Brazilian Congress of Neurology), Salvador-Bahia, Brazil, October 7-12, 2000. Presented *three* lectures:
 1. **Molecular pathogenesis of cortical dysplasia**
 2. **Baptists X Taoists: Where we are? (Novartis Satellite Symposium on Alzheimer Disease)**
 3. **Update on dementias: Neuropathologic substrates of ischemic-vascular dementia**
80. Invited speaker, Dept. of Clinical Neurological Sciences, University of Western Ontario, London, Canada, January 23, 2001. "**Cerebral amyloid angiopathy in stroke and dementia**".
81. Visiting speaker, Dept. of Pathology, Stanford University, Stanford, California, March 1, 2001. "**Cerebral microvessels: how they misbehave to cause stroke and dementia**".
82. Visiting Professor, Departments of Laboratory Medicine & Pathology, and Clinical Neuroscience, University of Alberta, Edmonton, Canada, May 3-4, 2001. Presented two lectures: "**Cortical development gone astray: Causes and consequences of cerebral cortical dysplasia**", and "**Cerebral angiomyopathies: Association with brain aging, stroke and neurodegeneration**". (Sponsored by Pfizer/Canada).
83. Invited lecturer, Department of Pathology, University of Zurich, Zurich, Switzerland, June 26, 2001. "**Cerebral microvascular disease: Pathophysiology and clinicopathologic manifestations**" ('Current problems in disease research' lecture series).
84. Invited participant and speaker, "**International Workshop on Brain Banking**" (sponsored by PHS/NIH), Bethesda, Maryland, March 11-12, 2002.
85. Invited guest/speaker, National Neuroscience Institute of Singapore, 18 April, 2002. "**Cerebral 'angiomyopathies' in aging, Alzheimer disease and vascular dementia**".
86. Invited participant, International League Against Epilepsy Workshop on "**Mesial temporal lobe epilepsy with hippocampal sclerosis**", Istanbul, Turkey, May 2-4, 2002.
87. Invited speaker, Neurodegenerative Diseases & Basal Ganglia Seminar Series, Emory University, Atlanta, Georgia, May 21, 2002. "**Cerebral amyloid angiopathy--pathogenesis and consequences**".
88. Visiting professor, Cleveland Clinic Foundation, Cleveland, June 6-7, 2002. Presented two lectures:
 1. Dept. of Neurosciences, June 6: "**Pathogenesis and consequences of amyloid angiopathy & other cerebral microangiopathies**".
 2. Dept. of Neurology/Epilepsy grand rounds: "**Malformations of cortical development--clues from neuropathology and genetics**".
89. Invited Chair & Organizer, **Workshop on Cerebrovascular disease--7th European Congress of Neuropathology**, Helsinki, Finland, July 13-16, 2002.

90. Invited speaker, Second International Symposium on Rasmussen's Syndrome, December 13-14, 2002, Montreal Neurological Institute & Hospital, Montreal, Quebec, Canada. **"Neuropathological correlates of disease stages, and modification by treatments"**.
91. Invited speaker, UC San Diego Medical Center, Dept. of Neurosciences Grand Rounds, August 1, 2003, **"Morphologic substrates of pediatric epilepsy: Lessons to be learned from the tissue"**.
92. Invited workshop speaker, 15th Congress of the International Society of Neuropathology, Torino, Italy, September 15-18, 2003. "Cerebral *'angiomyopathies'* in stroke and aging".
93. Invited lecturer, Canadian Association of Neuropathologists Annual Meeting, Kingston, Ontario, Canada, October 18, 2003. "Amyloid in cerebral blood vessels: how does it get there and what does it do?"
94. Invited lecturer, *'Frontiers in Pathology'* series, Oregon Health Sciences University, Portland, Oregon, October 29, 2003. **"The pathogenesis of ischemic-vascular dementia"**.
95. Invited speaker, International Symposium on Tuberous Sclerosis. Genetics, Behavior and Surgical Treatment, Montreal Neurological Institute, Quebec, Canada, December 4, 2003. **"Novel approaches to studying signaling pathways in TSC brain tissues"**.
96. Invited guest and speaker, Baltic Association of Neuropathologists, Spring workshop, Tartu, Estonia, May 19-20, 2004. **"Practical neuropathologic issues in evaluating the pathogenesis & complications of 'stroke' "**.
97. Invited speaker, Univ.of Pittsburgh Medical Center, Dept.of Pathology/School of Medicine Pathology Rounds, June 30, 2004. **"Interface between parenchymal and vascular dementias--Pathophysiologic mechanisms"**.
98. Invited speaker, Symposium on Molecular Pathology & Histopathology, 9th International Conference on Alzheimer's Disease and Related Disorders, Philadelphia, PA, July 17-22, 2004. **"Neuropathologic substrates of vascular dementia"**.
99. Invited speaker, Bayfront Medical Center, St. Petersburg, Florida, October 11, 2004. **"Neuropathologic substrates of intractable epilepsy: What we see in children and adults"**.
100. Visiting Professor/Scientist, Singapore (multiple institutions including **Singapore General Hospital, National Neuroscience Institute**), January 15-21, 2005; presented three lectures on various aspects of dementia and translational research in Neuropathology, met with local scientists at several institutions and consulted on ongoing research activities; funded by a mentorship grant from *SingHealth*.
101. Invited speaker, Johns Hopkins University "Dementia Consortium Retreat", Feb 19, 2005, Baltimore, Maryland. Lecture: **"The Pathological Perspective"** in symposium on **'Vascular Disease and Cognitive Decline'**.

102. Invited participant and 'group leader', NINDS-Canadian Stroke Network workshop on "**Vascular Cognitive Impairment: Harmonization Criteria**", Washington, D.C., April 24-27, 2005.
103. Visiting professor/invited speaker, Children's Hospital of Philadelphia, October 12, 2005. Lecture: "**Neuropathologic substrates of intractable epilepsy in children**".
104. Invited speaker, Neuroscience Research seminar series, Loma Linda University Medical Center, Loma Linda, CA, January 5, 2006. Lecture: "**Interface between ischemic-vascular dementia and Alzheimer disease**".
105. Invited speaker, American Association for Geriatric Psychiatry, San Juan, Puerto Rico, March 11, 2006. Lecture in session on 'Translational Neuroscience in Alzheimer's Disease: From Research Bench to Clinical Practice', "**Structural Features of the Human Brain in Alzheimer's disease: What is the tissue trying to tell us?**"
106. Invited faculty/lecturer, **Euro-CNS course on Developmental/Pediatric Neuropathology**, Oxford, England, March 29-31, 2006.
107. Visiting Professor, University of Washington, Seattle, April 26, 2006 ; Delivered the Alvord Lecture «**Neurovascular Dementia : How abnormalities of cerebral blood vessels and brain parenchyma compete** ».
108. Visiting Professor/ Resident-Trainee Research Day, Dept. of Pathology, Dalhousie University, Halifax, Nova Scotia, Canada, May 10-11, 2006. Delivered two lectures, one on « **The Surgical Pathology of Epilepsy** » (co-sponsored by Clinical Neurological Sciences), the other on « **Cerebral Vasculature and Dementia—Emerging Concepts** » (Pathology Research Day Lecture). .
109. Invited speaker, Clarisse L. Dolman Memorial Lecture, Vancouver Coastal Health and University of British Columbia, Vancouver, Canada, May 17, 2006. « **How do Cerebral Blood Vessels Contribute to Cognitive Impairment and Dementia ?** »
110. Invited participant, NINDS Workshop on « **Cell Biology of Vascular Cognitive Impairment** », June 1-2, 2006, Arlington, Virginia.
111. Invited speaker, Neuropathology Course, « **Clinical, Pathological and Radiological (MRI) Correlates** », November 20-21, 2006. University of Santo Tomas, Manila, the Philippines ; presented two lectures, one on neuropathologic substrates of **neuropsychiatric disorders**, the other on **dementia**.
112. Invited speaker, Loma Linda University Medical Center, California, January 25, 2007, at Trainee Research Day. Lecture: « **Cerebral blood vessels, strokes and dementia** ».
113. Invited Plenary Speaker, Conference on « Cerebral Amyloid Angiopathy : Emerging Concepts », held in Reykjavik, Iceland, 8-11 August, 2007. «**CAA : Its significance as a cause of stroke in the elderly**».

114. Invited Faculty, Royal College of Physicians (Ireland), Faculty of Pathology Seminar on Dementia, Dublin, Ireland, September 21, 2007. Lecture : « **Vascular Dementia : Clinico-pathological correlation** ».
115. Invited Speaker, Merck/Harvard Symposium on Vascular Dementia, Boston, Mass, October 10-11, 2007. Lecturer : « **Cerebral microvascular disease—its role in ischemic-vascular Dementia** ».
116. Invited Speaker/Faculty, University of Santo Tomas Hospital (Manila, the Philippines), 8 November, 2007. Presented two lectures—one on **Alzheimer Disease**, the other on **Frontotemporal Dementias**.
117. Visiting Speaker, monthly meeting, Hawaii Society of Pathologists, Honolulu, November 23, 2007. Lecture: « **Cerebrovascular disease associated with cognitive impairment—what is the tissue trying to tell us ?** »
118. Invited Speaker, Pediatric Epilepsy Surgery Update, Annual Meeting of the Section of Pediatric Neurosurgery (American Association of Neurological Surgeons), November 26-27, 2007, Miami Beach, Florida. Lecture : « **Pathology of Cortical Dysplasia** ».
119. Invited speaker/participant, Adelson Medical Research Foundation workshops. Venetian Hotel, Las Vegas, Nevada, March 27-30, 2008. Lecture : « **Overview of the intracellular inclusions shared among neurodegenerative diseases** ».
120. Invited plenary lecture, European Congress of Neuropathology, Athens, Greece, May 8-10, 2008. « **Chronic intractable epilepsy : a challenge for neuropathology** ».
121. Invited participant/speaker, NIA/NINDS workshop on the **role of the vascular system in neurological diseases of the aging brain**. Bethesda, Maryland, June 12-13, 2008. « **Pathology** ».
122. Gordon Mathieson Invited (Member) Lecture, Canadian Association of Neuropathologists Annual Meeting, Edmonton, Alberta, September 20, 2008. « **Neuropathologic studies of epileptogenic tissue : How the tissue speaks to neuropathologists and other neuroscientists** ».
123. Invited speaker and panelist, ILAE sponsored workshop on **Cortical Dysplasias**, Istanbul, Turkey, October 30-November 1, 2008. Lecture : « **Pathology of hemispheric and other congenital malformations** ».
124. Invited participant/speaker, Workshop on the « **Neuropathology of Ataxia-telangiectasia** », Redondo Beach, California, January 9, 2009.
125. Invited speaker, University of North Dakota Medical School, Grand Forks : « **How cerebrovascular disease mediates cognitive impairment : Lessons from lesions in the human brain** », April 24, 2009.
126. Invited faculty (one of three visiting international faculty), semi-annual meeting/course, **Baltic Association of Neuropathologists**, Kaunas, Lithuania, May 28-30, 2009. Presented

several lectures (on stroke, dementia, traumatic brain injury) and presented 'hands-on' braincutting demonstration, participated in case discussions.

127. Invited faculty and speaker, 18th International Cleveland Clinic Epilepsy Symposium : Epilepsy Surgery—Improving Outcomes. Cleveland, Ohio, June 21-23, 2009. Lecture : « **Hemispheric Pathologies** ».
128. Euro-CNS CME course on «Leukoencephalopathies », Academic Medical Center, Amsterdam, the Netherlands, October 21-23, 2009. Presented two lectures : 1. « **Small vessel disease** », 2. « **Leukovasculopathies : CADASIL, CARASIL, etc** ».
129. Invited guest speaker, Beaumont Hospital Neurosciences Meeting, Dublin, Ireland, November 13, 2009 ; « **Neuropathologic lessons from epilepsy surgery : What the tissue is telling us** ».
130. Invited speaker and scientific session Chair, International Workshop on Ataxia-Telangiectasia (ATW 2010), Redondo Beach, CA, April 11-14, 2010. Co-chair of session on 'Neuropathogenesis of A-T' ; Lecture : « **Ectopic Purkinje cells in A-T cerebella** ».
131. Meeting co-organizer (conference supported by R21/NIH and various sponsors): **Amyloid Angiopathy and Related Cerebral Microvasculopathies**. Ronald Reagan UCLA Medical Center, UCLA, Los Angeles, May 13, 14, 15, 2010.
132. Visiting Professor, Department of Pathology (presented resident teaching session and a lecture), Stanford University, Palo Alto, CA, June 29, 2010. Lecture: « **How cerebrovascular disease and parenchymal lesions conspire to cause cognitive decline** ».
133. Invited participant and speaker, First Task Force Meeting on Hippocampal Sclerosis (sponsored by International League Against Epilepsy ; one of two invited participants from USA), Amsterdam, The Netherlands, November 4-6, 2010. Case presentation on «**Hippocampal Sclerosis vs. Dementia** ».
134. Invited speaker, Neuropathology Symposium, Canadian Association of Pathologists' Annual Meeting, Vancouver, Canada, June 7, 2011 : « **HIV and a Less Common Inflammatory Disorder of the Human CNS** ».
135. Invited Royal College Lecturer, 5th Annual Neuropathology Day, June 11, 2011, McMaster University, Hamilton, Canada, *Progress in Cerebrovascular Diseases* : « **Pathology of small vessels of the central nervous system** ».
136. Invited speaker, Symposium on Cerebral Small Vessel Disease, Turku, Finland, November 3, 2011. Lecture on « **Pathology of CAA and other microvasculopathies in the CNS : Lessons from lesions and genetics** ».
137. Various lectures as Visiting Professor in the Faculty of Medicine & Surgery, University of Santo Tomas, Manila, the Philippines. « **Cerebral amyloid angiopathy, stroke and dementia** », « **Pathology of brain tumors** », « **Pathologic considerations in dementia** », and « **Neuropathology of stroke** », November 22-30, 2011.

138. Invited Visiting Faculty, 33rd Annual Convention, Philippine Neurological Association, Edsa, Manila, November 23-26, 2011. Plenary lecture : « **The role of vascular disease in dementia** » ; discussant in related **Clinicopathologic conference**.
139. Invited Faculty Speaker, 35th Anniversary Western University Epilepsy Program, London, Ontario, Canada, March 24, 2012. Lecture : « **Neuropathology of epilepsy** ».
140. Invited discussant, **The 19th Historical Clinicopathological Conference—«Vessels of Stone** » , University of Maryland, Baltimore, MD, May 4, 2012. [*Widely covered by media including New York Times, Washington Post, Associated Press, Sirius XM Radio, and foreign wire services*]
141. Invited faculty member (only invitee from the USA), **European Confederation of Neuropathological Societies CME Course on Leukoencephalopathies** (Edinburgh, Scotland, June 4-6, 2012). Presented four lectures: « **Small vessel disease** », « **Encephalitis I : PML, SSPE** », « **Encephalitis II : HIV, Malaria, others** », « **Leukovascular pathologies : CADASIL, CARASIL, others** ».
142. Invited lecture, University of Edinburgh Stroke Research Group, Western General Hospital, Edinburgh, Scotland, June 6, 2012. «**Pathology of small blood vessels in the CNS : Lessons from lesions and geography** ».
143. Invited speaker, University of Pennsylvania, Philadelphia, Center for Neurodegenerative Diseases, June 28, 2012. « **Cerebral blood vessels, stroke and cognitive impairment. A neuropathologic perspective** ».
144. Invited speaker, Lifelabs MedSci Grand Rounds, Toronto, Canada, September 24, 2012. “**Lenin’s brain: What historical analysis of pathologic data might teach us**”.
145. Organizing Committee, 3rd International Conference: “**Cerebral amyloid angiopathy and related microangiopathies**”, Leiden, The Netherlands, October 24-26, 2012.
146. Invited speaker, California Society of Pathologists Annual Meeting, San Francisco, CA November 27-December 01, 2012: Presented at two sessions: 1. Case presentations/**Neuropathology diagnostic slide session** (11/29); 2. Saturday a.m. case presentation, “**A case of severe focal cortical dysplasia, ILAE type IIB**” (12/01).
147. Invited speaker, University of Texas Southwestern Medical Center (Dallas, Tx) Symposium on *Vascular Mechanisms in Alzheimer’s disease and Neurodegenerative Disorders* , February 08, 2013: “**Cerebral microangiopathies: How they mediate cognitive impairment. A neuropathologic perspective**”.
148. Invited speaker, Brigham Young University, Provo, Utah, February 28, 2013: “**Sporadic and familial forms of cerebral microvascular disease: How they mediate cognitive impairment. A neuropathologic perspective**”.
149. Invited speaker, **BRAIN 2013** meeting, Shanghai, PRC, May 20-22, 2013: “**Cerebral Microangiopathies: How they mediate cognitive impairment. A neuropathologic perspective**”.

150. Saul Korey (Memorial) Lecture, American Association of Neuropathologists, June 22, 2013: **“Gain and pain from cerebral microvessels: Adventures in vascular neuropathology”**.
151. Invited (plenary) speaker, **Asian Society Against Dementia (ASAD)** meeting, Cebu City, Philippines, October 10-13, 2013: **“Neuropathology of Alzheimer Disease—Historical Perspective, or ‘Where are we going, where have we been?’ “** Also presented a Diagnostic slide session of unusual cases together with Dr. Orestes Solis, University of Santo Tomas.
152. Invited participant and commentator, Third Research Symposium, **The RE Children’s Project** meeting, Ronald Reagan-UCLA Medical Center, Los Angeles, February 21-23, 2014.
153. Peter W. Lampert Memorial Lecture, University of California San Diego Medical Center, April 17, 2014: **“Cerebrovascular disease as a “co-conspirator” in age-related cognitive impairment: Lessons from Neuropathology ”**.
154. Visiting Professor, University of Calgary/ Alberta Children’s Hospital, May, 2014.
 1. Dr. Harvey Sarnat Lecture: **“Malformations of cortical development as a cause of intractable childhood epilepsy: Interdisciplinary studies”**
 2. Lecture in a Mini-Symposium on Inflammatory Brain Disorders (*“Brain on Fire”*): **“What causes the (unihemispherical) tissue inflammation and brain injury of RE?”**
155. Invited speaker, Companion Meeting of the US Canadian Academy of Pathology, Seattle, Washington, March, 2016. **“How neuropathologic observations have determined the diagnosis and treatment of neurologic diseases: Emphasis on dementia”**.
156. Duke
157. Alfred Meyer Memorial Lecture, British Neuropathological Society 118th meeting, London, UK (delivered on receiving the Alfred Meyer Medal), 1 March, 2017. **“The neuropathology of vascular dementia and vascular cognitive impairment”**
158. Plenary Speaker, Genomic Medicine Ireland (GMI) laboratory launch, Dublin, Feb 22, 2018. **“Vascular and Genetic risk factors in dementia: Insights into pathogenesis”**—also interviewed on nationally syndicated Pat Kenny radio show.
159. Calgary/ 2019
160. Euro-CNS 2019

Presentations--Community Hospitals, Lay Organizations, CME lectures, Board Reviews, Local UCLA, etc:

1. Glendale Adventist Medical Center, Glendale, CA: **“Alzheimer's disease”**, March 6, 1995.

2. Henry Mayo Newhall Memorial Hospital, Valencia, CA: "**What's new in dementia?**", April 13, 1995.
3. Kaiser Permanente Medical Center, Harbor City, CA: "**Pediatric epilepsy**", June 28, 1995.
4. Queen of Angels-Hollywood Presbyterian Medical Center, Hollywood, CA: "**Pediatric epilepsy**", September 14, 1995
5. 1995 Board Review Course for Examination for Added Qualifications in Geriatric Psychiatry, sponsored by California Geriatric Education Center, Santa Monica, California "**Basic Science of Aging**", September 16, 1995.
6. Northridge Hospital Medical Center, Northridge, CA: "**Alzheimer's disease**", November 2, 1995.
7. Saint Luke Medical Center, Pasadena, CA: "**Neurology and AIDS**", November 7, 1995.
8. Daniel Freeman Marina Hospital, Marina del Rey, CA: "**Neurologic complications of AIDS**", December 6, 1995.
9. Irvine Medical Center, Irvine, CA: "**Alzheimer's disease**", March 13, 1996.
10. Scripps Memorial Hospital, La Jolla, CA: "**Recent developments in dementia**", April 1, 1997.
11. Daniel Freeman Memorial Hospital, Inglewood, CA: "**Neurological complications of AIDS**", July 31, 1997.
12. Kaiser Permanente/Sunset, Hollywood, CA: "**Neuropathologic substrates of epilepsy in young people**", October 2, 1997.
13. Antioch College, Marina del Rey, CA: "**Normal & abnormal brain aging**", Feb. 9, 1998.
14. Kaiser Permanente (Woodland Hills, CA), Jack Gordon Annual Pathology Symposium. "**Practical approaches to brain biopsies and autopsies in patients with dementia**", October 9, 1999.
15. Sunrise Hospital & Medical Center, Las Vegas, Nevada. "**Intractable seizures in adolescents and children**", January 28, 2000.
16. Invited faculty and mini-course organizer, California Association for Medical Laboratory Technology, Long Beach, California, March 3, 2001. "**Molecular pathogenesis of neurologic disease**".
17. Invited faculty/speaker, Alzheimer's Association of Los Angeles, Riverside, and San Bernardino Counties & the VA Greater Los Angeles Healthcare System conference on "**New research and treatments for dementia over the continuum of care**", Woodland Hills, California, September 11, 2002.
18. Invited faculty/speaker, UCLA Spinal Cord Tumor Symposium, January 29, 2007. "**Pathology of intramedullary spinal cord tumors**".
19. Invited CME lecture, Providence Tarzana Medical Center, November 11, 2011. "**Value of the autopsy: When and why to consider and what documentation is required by the physician**".

20. Invited CME lecture, Providence Holy Cross Medical Center, Mission Hills, CA, February 17, 2012. **"The role of autopsy in current medical care"**.
21. Invited speaker/participant, Southern California Alzheimer's Disease Centers Research Symposium, USC Davis School of Gerontology, Los Angeles, CA, June 15, 2012. **"Impact of cerebral microvascular disease on the brain"**.
22. Invited CME lecture, Providence Tarzana Medical Center, August 7, 2012. **"Role of the autopsy in clinical medicine: When and why to consider [Update/ 2012]"**.
23. Invited speaker/participant, The Paul H. Crandall Symposium on Epilepsy Surgery, UCLA, October 11, 2012. **"Histopathology of epilepsy surgery cases"**.
24. Invited speaker/participant, UCLA Educational Workshop on Aging, Dementia and Developmental Disabilities, October 17, 2012. Invited speaker in session on **'Research, assessment, and diagnosis'** [of dementia in Down syndrome patients].
25. Invited CME lecture, Los Alamitos Medical Center, March 18, 2013. **" Role of autopsies in modern medical practice "** .
26. Invited CME lecture, Providence Tarzana Medical Center, May 14, 2013. **"CNS Vasculitis"**.
27. Invited CME lecture, Northridge Hospital, February 21, 2014. **" Rapidly progressive dementia. Clinical and neuropathologic considerations "**.
28. Invited CME lecture, Providence St. Joseph Medical Center, Burbank, CA, May 15, 2014. **"Rapidly progressive dementia: Clinicopathologic considerations "**.

Editorial Activities:

1. Editorial Board Member, "Stroke", 1984-86.
2. Abstractor, "Alzheimer Disease and Associated Disorders--An International Journal", 1987-89.
3. Associate Editor, "AIDS Medical Report", 1990-91 (*journal ceased publication*).
4. Editorial Board member, "Journal of Neuropathology & Experimental Neurology", 1991-1995, 1997-2001 (two terms)
5. Associate Editor, "Brain Pathology", 1996-2000; **(Executive) Editor-in-Chief**, 2001- 2006
6. Editorial Board, "Epilepsia", 1996-2004.
7. Editorial Board, "J. of Neuroscience Research", 1997- **[ACTIVE]**
8. Editorial Advisory Board, "Neuropathology & Applied Neurobiology", 1999- **[ACTIVE]**
9. Editorial Board, "Neuropathology", 2003- **[ACTIVE]**

10. Editorial Board, "Korean Journal of Pathology", 2004- [ACTIVE]
11. Editorial Board, "Human Pathology", 2004- [ACTIVE]
12. Editorial Board, "Journal of Alzheimer's Disease", 2004- 2005

Ad hoc reviewer for the following journals (review approx. 20-35 ms's/year); journals for which I've held editorial board appointments (see above) are **not** included in this list:

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|--|---|
| Acta Neuropathologica | |
| Alzheimer Dis. & Assoc. Disorders | American J. of Medicine |
| American J. of Pathology | Amyloid |
| Annals of Internal Medicine | |
| Annals of Neurology | Arch. Pathology & Lab. Medicine |
| Archives of Neurology | Brain |
| Brain Research | Brain Research Bulletin |
| Canadian Journal on Aging | Canadian Journal of Neurological Sciences |
| Cellular & Molecular Life Sciences | The Cerebellum |
| Clinical Infectious Diseases | Epilepsy Research |
| Experimental & Molecular Pathology | Experimental Brain Research |
| Experimental Neurology | Head and Neck Pathology |
| Histopathology | |
| JAMA | J. of Alzheimer's Disease |
| J. of Applied Biomaterials | J. of Clinical Investigation |
| J. Chemical Neuroanatomy | J. Histochemistry and Cytochemistry |
| J. of NeuroAIDS | |
| J. of Neurosurgery | J. of the Neurological Sciences |
| J. of Virology | |
| Laboratory Investigation | Mayo Clinic Proceedings |
| Mechanisms of Ageing and Development | |
| Microscopy Research & Technique | Neurobiology of Aging |
| Neuroscience Letters | Neurology |
| Proceedings Nat'l Academy Sciences USA | |
| Surgical Neurology/SI International | Psychosomatic Medicine |

Teaching:

UCLA (1985-):

Perennial: Ongoing: **Clinical Resident/Fellow** teaching including brain cutting and microscope slide review/sign-out of Neuropathology cases, including autopsy and surgical case material--approx. 40% time 'on service' (since 2002). Together with the Neuropathology Fellow, I also contribute frequent clinicopathologic conferences (CPCs) or Neuropathologic material at Neurology Grand Rounds (held weekly throughout the academic year), and prepare various other intramural teaching sessions for Neurology/Neurosurgery residents & fellows, including a didactic lecture series held annually for both groups.

Medical student teaching commitments include:

Tutorial/Microslide group leader for **Pathology M201 (General Pathology)**, 1996-2000 (participation approx. alternate years).

Annual participation in the Neurologic Pathophysiology Section of **Pathophysiology of Disease course for Medical students (M202)**, including lectures, laboratories and CPC's. This course (phased out 2004) was an intensive exposure to Neuropathology for Medical students extending over approx. 2 weeks. I was Director of this course 1993-98; during 1998-2004 the course was reconfigured as a joint effort which I co-

directed with a designated faculty member from the Dept. of Neurology. The course has been superceded (2004) by an integrated first and second year course in Neuroscience, in which I give several lectures, CPCs and laboratory-tutorials as part of Block 5 (first year Medical students) and Block 8 (second year) . I also co-supervise the many UCLA medical students and visiting externs who take the **Neuropathology elective** rotation (usually one month; Course #PA 162.01) as juniors or seniors.

Other/Miscellaneous:

1. Annual participation in the **Dental School Fundamentals of Systemic Pathology course (Path 200)**-- presented a lecture on 'AIDS' (until 2006).
2. Since the early 1990s, I have given one lecture annually in a course on AIDS (Epid. 227; **AIDS: A major public health challenge**) coordinated by Dr. Roger Detels, UCLA School of Public Health (enrolment approx. 20-25 students annually).
3. 1994: Organized a graduate level course (234D) on Alzheimer's disease as part of a program on "**Molecular and Cellular Foundations of Disease**".
4. 1996: Participated in a course on "**Disease Mechanisms**" (Path 298C), with emphasis on the molecular pathogenesis of Alzheimer disease.
5. 1998: Co-organized a course (Pathology 298B) on "**Molecular Pathogenesis of Neurodegenerative Conditions**" with Dr. Gregory M. Cole, Dept. of Neurology.
6. 2002, 2004 (Spring): Participated in Pathology M237 "**Molecular & Cellular Foundations of Disease**" (J. Berliner, E. Neufeld)--one lecture and seminar/literature review
7. 2003, 2007, 2009: Participated in Pathology 238, "**Histology & Pathology for Graduate Students**" (P. Tontonoz & others)—one lecture and seminar/literature review
8. 2010, 2011: Pathology 237: "**Cellular and Molecular Basis of Disease**" (P. Tontonoz, J. Berliner, J. Said & others)—one lecture on neurodegenerative disease

Graduate students:

As Chair of Ph.D. Committee/Thesis Supervisor:

- Michael J. DeRosa IDP Neuroscience 1990-94
A.B. Psychobiology, Occidental College, Eagle Rock, CA, 1989
"Studies of human cerebral cortical dysplasia"
Currently: Teaching (neuro)anatomy/neurobiology at various colleges in San Francisco Bay area
- James J. Velier IDP Neuroscience 1992-95
B.S. Psychology, University of Wisconsin, Madison, WI, 1990
"Immunohistochemical studies of normal and abnormal neuronal growth & development: The cerebellar Purkinje cell as a model of neuronal differentiation"
Currently: Freelance photographer in San Diego, California.
- Michael Catania UCLA ACCESS Program/Experimental Pathology 1995-2001
B.S. Biotechnology, California State Polytechnic Univ, Pomona, CA, 1993
"In vitro studies of TSC-related gene expression"
Currently: Employed in biotechnology industry, San Diego, California
- Christopher Kerfoot UCLA ACCESS Program/Experimental Pathology 1996-2000
B.S. Chemistry, Univ. of Illinois, Urbana, ILL, 1994

"Tissue-specific expression of TSC-related genes"

Currently: President, Mosaic Laboratories, LLC, Lake Forest, California

Michael W. Johnson IDP Neuroscience 1998-2001
B.S. Biological Sciences, UCLA, Los Angeles, CA, 1995

"TSC-related genes and their effects on neuroectodermal cell differentiation"

Currently: Neuropathologist at Lehigh Valley Health Network in Pennsylvania, with academic appointment at University of South Florida

Nassim E. Noori IDP Neuroscience 1998-99
B.S. Biology, Georgetown, D.C., 1997

"Morphoanatomical correlates of dementia in patients with cerebral microvascular disease"

Voluntarily withdrew from the program to pursue other interests, including Ph.D. in Art History.

Ilene Dale Auerbach UCLA ACCESS/Molecular mechanisms of disease
B.S. Biopsychology, UC Santa Barbara, California, 1998 2000-2005

"Role of cerebral smooth muscle cells in cerebrovascular disease and the aging brain"

Currently: Working as a scientific journalist in Chicago, Illinois

Jared Goldstine UCLA ACCESS/Molecular mechanisms of disease
B.S. Microbiology, UC Davis, California, 1999 2002-2006

"Oxidative stress in age-related cerebrovascular disease--*in vitro* and *in vivo* studies"

Currently: Unknown

As member of Ph.D./Masters Committee [UCLA unless otherwise stated]:

Marilyn Lockhart M.Sc., Univ. of Western Ontario, London, Ontario, Canada 1985
Brenda Lynn Coomber Ph.D., Univ. of Toronto, Canada, 1986 (*external examiner*)
Chi-Shiun Chiang Ph.D., Biomedical Physics 1991
Adrian Neil Verity Ph.D., Experimental Pathology 1992
Cristian Achim Ph.D., Exp. Pathology, UC San Diego 1993
Kerry W. Thompson Ph.D., Neuroscience 1994
Virginia Sanders Ph.D., Neuroscience 1995
Michael S. Mega Ph.D., Neuroscience 1996
Jose Esteban Castelao Ph.D., Epidemiology/ School of Pub Hlth 1996
Manuela Gago Dominguez Ph.D., Epidemiology/ School of Pub Hlth 1996
Charles Ho M.Sc., ACCESS/ Exp Pathology, UCLA 1997
Sarah Becker-Catania Ph.D., ACCESS/ Exp Pathology, UCLA 1997
Marion Maat-Schieman Ph.D., Neurosciences, University of Leiden,
The Netherlands (External examiner/
Opponents) 1997
Aine Behan Ph.D., Experimental Neuropathology, Royal College of Surgeons
in Ireland, September, 2004 (*external examiner*)
Remco Natte Ph.D., Neurosciences, University of Leiden,
The Netherlands (External examiner/
Opponents) 2002
John M. Aldag Ph.D., Neuroscience 2004
Qing Yue Ph.D., Molec. & Med. Pharmacology 2004
Tuan Quoc Hoang Ph.D., Neuroscience 2004
Jimena Goldstine Ph.D., Cellular & Molecular Pathology 2006
Lucia Isabel Hamilton M.Sc., Cellular & Molecular Pathology 2007
Shino D. Magaki Ph.D., Biochemistry, Loma Linda University
Medical Center, January, 2007 (*external examiner*)
Jeremy A. Miller Ph.D., IDP Neuroscience 2008
Matthew Schrag Ph.D., Biochemistry, Loma Linda University
Medical Center, August, 2010 (*external examiner*)
Rachel Howley Ph.D., Experimental Neuropathology, Royal college of Surgeons
in Ireland, March, 2011 (*external examiner*)

Qing Miao Ph.D., Pathology, University of Turku, Finland, November, 2012
(*External Examiner/ Opponens*)
Matthew Zabel Ph.D., Biochemistry, Loma Linda University Medical Center,
2012 (*external examiner*)

As Preceptor for a Graduate Student Laboratory Rotation:

Students who subsequently committed to my laboratory are **not included in this list.**

| | | |
|----------------|-----------------------|----------------|
| Rupa Appa | UCLA ACCESS Program | Summer, 1994 |
| Jennifer Wee | UCLA ACCESS Program | Fall, 1995 |
| Thomas A. Haag | UCLA ACCESS Program | Fall, 1995 |
| Andrew Hufford | UCLA ACCESS Program | Fall, 1996 |
| Ben Deneen | UCLA ACCESS Program | Fall, 1997 |
| Meghan O'Neill | UCLA MSTP Program | Summer, 1998 |
| Jennifer Ogren | UCLA ACCESS Program | Spring, 2003 |
| Linslee Luke | UCLA IDP Neuroscience | Winter, 2004-5 |
| Hilary Moale | UCLA ACCESS Program | Fall, 2008 |

Teaching Awards:

1993-94: Dept. of Neurology **Golden Hammer Award** for excellence in Resident teaching (UCLA)
1994-95: Dept. of Pathology & Lab Medicine **Outstanding Teaching Award** by a Faculty member, voted on
and presented by Residents & Fellows (UCLA)
June, 2003: **Award for Excellence in Education** of the David Geffen School of Medicine at UCLA (one of 4-6
given annually faculty-wide).

Postdoctoral fellows:

Dr. Regina Graefin von Einsiedel (M.D., Koln, Germany; in lab 1989-91)--funded by UCLA
Multi-Center AIDS Cohort Contract.
Project: Neuropathologic studies of AIDS, with emphasis on AIDS dementia and opportunistic viral
infections (e.g. progressive multifocal leukoencephalopathy, PML).
Currently: Psychiatrist, Städtisches Klinikum Magdeburg, Teaching Hospital of the Otto-von-
Guericke University, Magdeburg, Germany; with active research program in Molecular Neuro-
virology (may have relocated).

Dr. Marcia Cornford (Ph.D., Iowa State University; M.D., UCSD; in lab 1990-92)--funded by
NIMH Training Grant #**MH 19200**.
Project: Role of herpesviruses (especially CMV) in AIDS-related neuromuscular disease
Currently: Professor of Pathology & Attending Pathologist, Harbor-UCLA Medical
Center, Torrance, CA.

Dr. Zhenzhen Wang (M.D. [1984]; Ph.D. [1992], Harbin Medical University, P.R. China; in lab 1995-98)--
funded by UCLA Blood-brain Barrier Training Grant, NIH #**T32NS07356**.
Project: Cerebral microvasculopathy in aging and dementia--role of the blood-brain barrier
Currently: Has returned to Peoples Republic of China, Shanghai (August, 2001); working in a
biomedical research institute

Dr. Carolyn Y. Li, M.D., Ph.D. (Ph.D., Kentucky [1996]; in lab 1998-99)--funded by UCLA
Blood-brain Barrier Training Grant (see above)
Project: *In vitro* studies of cerebral microvascular smooth muscle cell biology
Currently: In Pathology practice, Southern California

Dr. Min Huang, M.D., Ph.D. (M.D. [1995], Shanghai Medical University, P.R.C.; Ph.D.
[1995], The Chicago Medical School; in lab 1999-2000)--funded by UCLA Blood-brain
Barrier Training Grant (see above)
Project: Molecular pathology of cerebral microvascular disease
Currently: Unknown

Dr. Pouneh Beizai, M.D. (2000), UCLA School of Medicine, Los Angeles. Funded by

NeuroAIDS Training Grant #**NIMH MH19200-13**; in lab 2001-2002.

Project: Neuropathologic studies of AIDS CNS in the pre- vs. post-HAART eras utilizing tissue microarrays

Currently: Staff Pathologist (part-time), UCLA Medical Center, Los Angeles

Dr. Emad Farag, M.D. (1997), Loma Linda University. Funded by UCLA Blood-brain Barrier Training Grant (see above) 2001-2002; funded by USC Alzheimer Disease Center training grant 2002-2003 (co-supervised Dr. Farag with Dr. Helena C. Chui, USC/Rancho Los Amigos Medical Center)

Project: Vascular vs. parenchymal dementia--neuropathologic studies.

Currently: Assistant Professor of Neurology, UCLA Medical Center and David Geffen SOM at UCLA.

Dr. Martin Wirenfeldt Nielsen, M.D., Ph.D., 2008, University of Southern Denmark. In laboratory 02/2008-02-2011, supported fully by Danish Medical Research Council.

Project: Microglia in human neurologic diseases and animal models

Currently: Trainee in Pathology, Denmark.

Preceptor for Medical Students/ Research Projects (recent):

Parham Moftakhar, David Geffen School of Medicine, 2006-07 (12 months); funded by the Sarnoff Cardiovascular Research Foundation

Project: *Aquaporin expression in human brain: biochemical and immunohistochemical studies*

Currently: Resident in Radiological Sciences, UCSF, San Francisco, CA.

Peter Ljubenkov, Philadelphia, PA, summer, 2008; MSTAR student

Project: *Amyloid beta and tau pathology in brainstem and basal ganglia of the aging brain*

Ashley Becker, SUNY Buffalo School of Medicine, summer, 2009; MSTAR student

Project: *Neuropathologic findings in centenarians*

Amit Jain, David Geffen School of Medicine at UCLA, summer, 2010; STTP student

Project: *Vascular responses to thrombectomy*

Aaron T. Saunders, University of Hawaii, Honolulu (John A. Burns) School of Medicine, summer, 2010; MSTAR student

Project: *Hippocampal plasticity in the aging/demented brain—an autopsy study*

Davin Ashraf, UCLA; summer, 2012, supported by STTP

Project: *Alzheimer protein deposition in the brains of Down Syndrome patients*

Derek Wu, Albert Einstein College of Medicine; summer, 2012, MSTAR student

Project: *Neuropathologic findings in centenarians*

Dalee Zhou, Weill Cornell College of Medicine; summer, 2013, MSTAR student

Project: *Retrograde cortical changes associated with brain infarcts*

Clinical Neuropathology Fellows Trained [as Program Director since 1993]:

(listed in **reverse** chronological order)

2013-2015: Dr. Denise Ng, M.D.

- 2012-2014: Dr. Keng-Chih Su, M.D.; currently Fellow in Forensic Pathology, LA County Coroner's Office
- 2011-2013: Dr. Kritsanapol Boon-Unge, M.D.; currently Fellow in Pediatric Pathology, Children's Hospital of Los Angeles
- 2010-2012: Dr. Tracie Pham, M.D.; until recently Staff Neuropathologist, Tufts New England Medical Center, Boston, MA.
- 2009-2011: Dr. Aaron Wagner, M.D. subsequently Fellow in Pediatric Pathology, University of Colorado, Denver; currently staff Pathologist, Orlando Regional Medical Center, Florida..
- 2008-2010: Dr. Rupal Mehta, M.D., currently Assistant Professor of Pathology (Neuropathology), University of Maryland School of Medicine, Baltimore.
- 2007-2009: Dr. Negar Khanlou, M.D., currently Assistant Professor of Pathology & Lab Medicine (Neuropathology), David Geffen School of Medicine at UCLA.
- 2005-2007: Dr. Zhenggang Xiong, M.D.,Ph.D., currently Assistant Professor of Pathology (Neuropathology), Tulane University Medical School, New Orleans, Louisiana.
- 2004-2005: Dr. Raafat Makary, M.D., currently in practice in Jacksonville, Florida & Assoc. Professor of Pathology at University of Florida, Jacksonville.
- 2002-2004: Dr. Ivan A. Klement, M.D.,Ph.D.; in private practice at Cottage Hospital, Santa Barbara, CA, August, 2006.
- 2001-2003: Dr. Dennis J. Chute, M.D., formerly Assist. Professor of Pathology & Lab Medicine (Neuropathology), UCLA Medical Center, Los Angeles, CA; relocated to New York state November, 2005, in practice of Forensic Pathology, New York state.
- 1999-2001: Dr. Lisa Jouben-Steele, M.D., until recently Assistant Prof. of Pathology, University of Calgary, Alberta, Canada; currently in private practice, Kamloops, British Columbia, Canada.
- 1996-1999: Dr. Pier Luigi DiPatre, M.D., until recently Associate Prof. of Pathology, Univ. of Texas Medical Branch, Galveston, Texas; currently in private practice in Texas.
- 1995-1996: Dr. William H. Yong, M.D., currently Neuropathologist & Associate Professor of Pathology & Laboratory Medicine, UCLA-CHS and David Geffen SOM at UCLA, Los Angeles, CA.
- 1993-1995: Dr. Paul S. Mischel, M.D., until recently Latta Professor of Pathology & Laboratory Medicine (Neuropathology; endowed Chair), UCLA Medical Center & David Geffen School of Medicine at UCLA, Los Angeles; currently Ludwig Chair in Cancer Research, UC San Diego.
- 1991-1993: Dr. Bruce Quinn, M.D.,Ph.D., currently working as freelance consultant with interest in pathologic issues.

Awards/Prizes Won by Students/Postdocs/Clinical and Research Fellows:

- 1991: **Marcia E. Cornford** (postdoctoral fellow) awarded Resident's Prize of the L.A. Society of Neurological Sciences for her paper "*Neuromuscular pathology in HIV infection*".
- 1994: (March) **Michael J. DeRosa** (graduate student) chosen as Second Annual Samuel Eiduson Student Lecturer.
- 1996: **Paul S. Mischel** (Neuropathology Fellow) awarded Pfizer Scholarship for new Faculty.
- 1997: **Christopher Kerfoot** (Graduate student) awarded Mental Retard'n Research Center predoctoral traineeship (1997-98); Gonda Fellowship in Neuroscience and Human Genetics (1999).
- 1998: **Michael W. Johnson** (Graduate student) awarded UCLA Molecular and Cellular Neurobiology predoctoral traineeship.
- 2006: **Theodore Pasquale** (summer Medical student, 2005, funded by NIA-Lillian R. Gleitsman Summer Training Institute) won 2005 Gleitsman Best Student Researcher Award for project "*Tissue Microarray Analysis of White Matter Abnormalities in the Elderly Human Brain*".

Ad hoc (grant/fellowship) reviewer for:

Medical Research Council of Canada (frequent)
National Sciences & Engineering Research Council of Canada (occasional)
Health Sciences Centre Foundation (U. of Manitoba, Winnipeg, Canada)
French Foundation for Alzheimer Research, Los Angeles (perennial until 2005)
The Children's Hospital of Winnipeg Research Foundation Inc., Winnipeg, Canada (1995)
U.S.A. Dept. of Veterans Affairs (occasional, 1995-)
Physicians' Services Inc. Foundation, North York, Ontario, Canada (1996)
UCLA Center on Aging (occasional)
Internationale Stichting Alzheimer Onderzoek (The Netherlands) (1997)
Singapore Biomedical Research Council (2002)
The Wellcome Trust, United Kingdom (2002)
Alzheimer's Research Trust, United Kingdom (2004)
Stein-Oppenheimer Awards, UCLA (intramural; 2005)

Service to Research/Clinical Centers/Foundations:

1993, 2001: External advisory committee, Alzheimer Disease Center, Oregon Health Sciences University, Portland, Oregon.
1996- : Scientific Advisory Board, HIV Neurobehavioral Research Center, San Diego, California and TMARC project.
1995- : International Scientific Advisory Board, The French Foundation for Alzheimer Research
2006-: External Advisory Board, Indiana University Alzheimer Center (Indianapolis, Indiana)
2008: External Advisory Board, Massachusetts General/Harvard Univ. Alzheimer Disease Center
2009- : Medical Advisory Board, The Hemispherectomy Foundation

Service to Professional/Scientific Societies:

1988-90: Chair, Constitution Committee, American Association of Neuropathologists
1998-2001: Member, Commission on Search for Epilepsy Genes, International League Against Epilepsy
1997-2000: Member, Professional Affairs Committee, American Asscn. of Neuropathologists.
1999-2002: Awards Committee, American Asscn. of Neuropathologists
1998-2006: Neuropathology Resource Committee, College of American Pathologists
2004-2005: President, American Association of Neuropathologists
2009-2010: Awards Committee, American Asscn. of Neuropathologists

SERVICE TO UCLA, UCLA Medical Center, and Departmental Committees:

UCLA, campus-wide:

Faculty/Academic Senate representative on Undergraduate Student Association, 1988-1990
Member, Legislative Assembly, 1992-95
Member, Graduate Council, 1993-96
Committee on Charges, 2010-2013

School of Medicine:

Search Committees for.....
Eugene Stern Chair in Neurosurgery (1991)
Faculty in Neurology including Charles Markham Chair (1993-95)
Assistant Prof. of Neuropathology (1995; Chair of Committee)
Chair of Dept. of Pathology & Lab Medicine (1993-95)
Elizabeth E. and Thomas R. Plott Chair in Gerontology (1995, 2012)
Wasserman Endowed Chair in Ophthalmic Pathology (2003)

Smith Chair in Alzheimer Research (2013)
MSTP Admissions Committee (1995-)
IDP Neuroscience Committee (1999-)

Departmental:

Member, Academic Personnel Committee (1993-95; 1997-99; 2001-04); **Chair** of the Committee, 1995; member 2008-9; **Co-Chair**, 2009-10.
Member, Housestaff (currently Clinical Education) Committee, 1986-1996, 2008- .
Member, Practice Plan Executive Board (1994-96)
Former **Chair**, Grand Rounds Committee
Acting Chair, Anatomic Pathology Council (1995)
President, Practice Plan Executive Board and Practice Plan Group (1998-2000)