

CURRICULUM VITAE

Laura Kirchman Manuelidis, M.D.
Professor and Head of Neuropathology
Yale University School of Medicine
New Haven, CT 06510

Tel: 203.785.4442 E-mail: laura.manuelidis@yale.edu

WEBSITES

[Neuroscience](#)
[Neuropathology](#)
[Virology](#)

PERSONAL

Born: Brooklyn, New York
Married: Elias Emmanuel Manuelidis 1966–1992 (deceased)
Children: Emmanuel Elias (b. 1967) & Laertes Alexis, (b. 1969)

EDUCATION

| | | | |
|--|------|------|---------------|
| Sarah Lawrence College, Bronxville, N.Y. | B.A. | 1963 | Poetry |
| Yale University School of Medicine | M.D. | 1967 | Neurosciences |

PROFESSIONAL

| | |
|--|------------------------------|
| Assistant Editor, Journal of the History of Medicine and Allied Sciences Yale University School of Medicine | 1964–67 |
| Assistant to Chief Medical Officer Balisera, Bangladesh | 1966 |
| Intern and Resident Department of Pathology Yale University School of Medicine | 1967–69 |
| Visiting Fellow (NIH postdoctoral) Albert Einstein College of Medicine | 1969–70 |
| NIH Postdoctoral Fellow, Department of Pathology Yale University School of Medicine | 1969–73 |
| Instructor of Pathology and Neuropathology Yale University School of Medicine | 1970–72 |
| Assistant Professor of Pathology and Neuropathology Yale University School of Medicine | 1972–78 |
| Associate Professor of Pathology and Neuropathology Yale University School of Medicine | 1978–79 |
| Associate Professor of Neuropathology (Surgery)/with Tenure Chief of Neuropathology, Yale–New Haven Hospital Section of Neuropathology, Cancer Center Faculty Department of Surgery, Yale University School of Medicine | 1979–85/1985–89 1980–1997 |
| Professor and Head of Neuropathology Neurosciences & Virology Faculties, Yale University School of Medicine | 1989–present |

Licensure: Connecticut (Graduate National Boards, Parts I, II, and III completed 1967)

HONORS

Honorable Mention Thesis, Yale University School of Medicine, 1967

Swibelius Award for Cancer Research, 1970

Andrew W. Mellon Foundation Young Investigator Award, 1974–1975

NIH Research Career Development Award, 1974–1979

Student Citation for excellence in teaching

The Chromosoma Prize, 1989

PUBLIC SERVICE

GOVERNMENT:

Advisory Panel on Alzheimer's Disease, Department of Health and Human Services 1993–1996

Ad hoc member, NIH study sections, 1982–present, including:

Pathology A study section

National Institute of Aging: Dementia study section

Neurology A study section

OTHER (selected):

Consultant: Medical Research Council (England), 1989 & 1990
Food and Drug Administration consultant 1994–present

TSE Advisory Committee 2006–2010

Environmental Protection Agency, Scientific Advisory Panel, 2008

FIFRA advisory committee on TSEs (2009)

Grant peer reviewer (1982–present):

National Science Foundation (molecular and cell biology sections)

Veterans Administration

March of Dimes

Canadian Research Council (molecular and cell biology)

Agriculture Research Council (England)

Medical Research Council (England)

The Wellcome Trust (England)

U.S. Department of Agriculture

NATO

PUBLIC EDUCATION

McNeil–Lehrer (PBS)

ABC

BBC

Swedish Broadcasting

Canadian Broadcasting

International Newspapers (e.g. New York Times, Business Week, etc.)

Scientific News and Views (e.g., Scientific American, etc.)

EDITORIAL

Editorial Boards

Acta Neuropathologica, 1986–1991

Chromosoma, 1990–1996

Cytogenetics & Cell Genetics, 1994–1998

J. Neurovirology, 1996–present

Viral Immunology, 1999–present

Scientific Review (selected journals)

Science

Nature

Nature Medicine

Proceedings of the National Academy of Sciences USA

Journal of Cell Biology

Nucleic Acids Research

Molecular and Cellular Biology

Experimental Cell Research

Journal of Virology

Journal of Neuropathology and Experimental Neurology

Journal of Neurocytology

Histochemistry & Cytochemistry

American Journal of Pathology

Trends in Genetics

Chromosoma

Neurology, etc.

INVITED LECTURES (selected of >100)

USA/Canada

The Kroc Neuroscience Lecture (U. Connecticut)

The Annual Waxman Institute Lecture in Virology (Rutgers)

Keynote Lecture, American Cytogenetics Cell Genetics

Cold Spring Harbor Symposia

National Institutes of Health (aging & cell biology lectures)

Columbia College of Physicians and Surgeons (interdepartmental/microbiology)

Johns Hopkins Medical School (genetics)

Los Alamos Conference on Genes, Chromosomes and Flow Cytometry

Seattle Health Sciences Center (interdepartmental/genetics)

M.I.T. (interdepartmental/biology)

Lawrence Livermore (genetics)

Gordon conferences (biological structure & gene expression)

2nd International Conference on Alzheimer's Disease

Merck Sharp & Dohme

U. Massachusetts (interdepartmental/cell biology)

Keystone Symposium on nuclear structure

Armed Forces Institute of Pathology

Rockefeller University

U. Pennsylvania

First International Symposium of NeuroVirology

Europe

Max-Planck Institute (Munich)
Cambridge University Symposium on repeated sequences (England)
EMBO molecular biology Symposium (Switzerland)
Unconventional Virus Symposium: (Paris)
EMBO repeated DNA Symposium (France)
Ciba Foundation on Novel Infectious Agents and the Central Nervous System (London)
2nd Harden Conference on Human Genome mapping (Oxford)
Keynote Speaker: Congress of Italian Histochemistry and Cytochemistry (Sienna)
Gordon Conference (& session chairman, Italy)
17th International Congress of Genetics (England)
N.Y. Acad. Sciences Symposium on Slow Infections of the Central Nervous System (Iceland)
Nuclear Organization, Chromatin Structure and Gene Expression (the Netherlands)
Medical Research Council Meetings on Spongiform Encephalopathies (London)
Third International Symposium on Spongiform Encephalopathies (Paris)
Institute Pasteur of Athens
University Complutense, Madrid
Fondation Merieux (France)
Leopoldina lecture, Vienna
International Prion Meetings, (Paris, Greece, Edinburgh)

Organizer

EMBO Course (with D. Ward) on non-isotopic DNA labeling (Paris, France)
8th Internat'l. Congress of Human Genetics: Workshop organizer & session chairman (U.K.)
First Gordon conference in Neurovirology, session on transmissible encephalopathies

OTHER

American Association of Neuropathologists:

Co-Chairman of scientific sessions; Award and Program Committees

American Association of University Professors:

Executive Committee, Yale University Chapter (1978-1985)

Yale Medical School Committees (selected):

Progress Committee, 1986-1988

Promotion Committee, 1989-1992

New Neuroscience teaching module committee, 1992-1998

Scientific illustrations: Covers for Chromosoma, Science, J Cell Biochem etc.

Fellow: Timothy Dwight College (Yale College, elected by students), 1972-present

Including freshman advisor undergraduate special courses and senior theses, molecular biology, genetics, neuroscience, & student elective on the interface of science and poetry

Yale Alumni Medical School Committee (AYMA): 2006-2011

Delegate Yale AYMA to Yale Alumni 2010-present

MEMBERSHIPS: AAAS; Am. Assoc. Neuropathologists.; Am. Assoc. Pathologists.; Am. Aging Assoc.; American Society for Microbiology; Biochemical Society; International Society for Developmental Neuroscience, Hellenic Medical Society etc.

COMMUNITY: Organized Alzheimer families in New Haven area (with EE Manuelidis) at our house. This started the subsequent ADRC Connecticut chapter.
CJD (BSE & AD) family/patient reference help-line NIH listing
Help/contribute to patient related internet sites such as CJD Voice.
Sarah Lawrence College. Alumnae Long Range Planning Committee

POETRY: Readings, magazine publications including the Nation, the CT Review, Oxford Journal, Innisfree Journal. Evergreen Review etc.
Nominated twice for Pushcart Prize
Poetry Book: "**Out of Order**", L. Manuelidis available Amazon.com, Barnes & Noble etc.
See website: [Neuroscience](#)

PATENTS:

Yale University – "Delineation of Individual Human Chromosomes in Metaphase and Interphase Cells by In Situ Suppression Hybridization" (with D. Ward, P. Lichter & T. Cremer), 1988.

Yale University– Decontamination (of CJD and other viruses) using Guanidine Thiocyanate, (L. Manuelidis, 1996).

L. Manuelidis: Pre-symptomatic markers for neurodegenerative diseases / TSEs

L. Manuelidis: High throughput assays for human CJD

SELECTED ORIGINAL ARTICLES (of more than 100)

- Manuelidis, L. and Bornstein, M., [125I labeled thyroid hormones in cultured mammalian nerve tissue](#). Z. Zellforsch. 106:189–199,1970.
- Manuelidis, L., Adrenal gland in tissue culture. [Nature 227: 619–621](#),1970.
- Manuelidis, L. and Manuelidis, E.E., [An autoradiographic study of the proliferation and differentiation of glial cells in vitro](#). [Acta Neuropath.](#)18:193–213,1971.
- Manuelidis, L. Studies with electron microscopic autoradiography of thyroxine 125I in organotypic cultures of the CNS. II. Sites of Cellular localization. [Yale J. Biol. Med.](#) 45:501–518, 1972.
- Manuelidis L., Selective uptake of 3H tyramine by chromaffin cells in vitro, and simultaneous release of norepinephrine. [J.Neurocytol.](#)2:117–131,1973.
- Manuelidis, L. and Mulrow, P., ACTH effects on aldosterone productions and mitochondrial ultrastructure in adrenal gland cultures.[Endocrinol.](#)93:1104–1108,1973.
- Manuelidis, L. and Mulrow, P., Aldosterone production by adrenal cultures via dbcAMP and the reversibility of ACTH and dbcAMP induced changes. [Endocrinol.](#) 95:728–740,1974.
- Manuelidis, L. and Manuelidis, E.E., On the DNA content of cerebellar Purkinje cells in vivo and in vitro. [Exp. Neurol.](#) 43:192–206,1974.
- Watchel, E. J., Wisemann, R.L., Marvin, D.A. and Manuelidis, L., Filamentous bacterial virus. XIII. Molecular structure of the virion in projection. [J. Mol. Biol.](#) 88:601–681, 1974.
- Manuelidis, L. and Manuelidis, E.E., Synaptic boutons and neuron-like cells in isolated adrenal gland cultures. [BrainRes.](#)96:181–186, 1975.
- Manuelidis, L., The effect of dbcAMP on adrenal chromaffin cells in organotypic cultures. [J. Neurocytol.](#) 5:110, 1975.
- Hogan, J. and Manuelidis, L., Intramembrane particle distribution and lectin binding of glioblastoma cells after long-term subculture. [Acta Neuropath.](#) 36:199–208, 1976.
- Manuelidis, L., Manuelidis, E.E. and Prichard, J., Relationship between membrane potential and external potassium in human glioblastoma cells in tissue culture. [J. Cell Physiol.](#) 87:179–88, 1976.
- Manuelidis, L. and Manuelidis, E.E., Cholera toxin–peroxidase: changes in surface labeling in glioblastoma cells with increased time in tissue culture. [Science](#)193:588–590,1976.
- Manuelidis, L. and Manuelidis, E.E., Ultrastructural study of plasma membrane GM1 in neuroectodermal cells using cholera–peroxidase. [J.Neurocytol.](#) 5:575–589, 1976.
- Manuelidis, L. and Manuelidis, E.E., The amount of satellite DNA in four experimentally induced tumors. Quantitative changes in a glioblastoma producing C–type particles. [J. Nat. Can. Inst.](#) 56:43–50, 1976.
- Manuelidis, L. and Manuelidis, E.E., Localization of mouse satellite DNA on chromosomes of experimentally induced glioblastomas. Non–centromeric label in one glioblastoma producing C–type particles. [Int. J. Cancer](#) 17:659–669, 1976.
- Manuelidis, L., Repeating restriction fragments of human DNA. [Nucleic Acids Res.](#) 3:3063–3076, 1976.

- Manuelidis, E.E., Kim, J, Angelo, J.N., Gorgacz, E.J. and Manuelidis, L., Serial propagation of Creutzfeldt–Jakob Disease to guinea pigs. [Proc. Natl. Acad. Sci. USA 73: 223–7](#), 1976.
- Manuelidis, L., A simplified method for preparation of mouse satellite DNA. [Anal. Biochem. 78:561–568](#), 1977.
- Manuelidis, L., Yu, R.K. and Manuelidis, E.E., Ganglioside content and pattern in human gliomas in culture. Correlation of morphological changes with altered gangliosides. [Acta Neuropath. 38:129–135](#), 1977.
- Manuelidis, L., Tomita, M. and Manuelidis, E.E., Binding of ferritin–lectin conjugates to C–type virus in intact cells. [Experientia 33:949–952](#), 1977.
- Manuelidis, E.E., Angelo, J.N., Gorgacz, E.J., Kim, J.H. and Manuelidis, L., Experimental Creutzfeldt–Jakob disease transmitted via the eye with infected cornea. [N. Eng. J. Med. 296:1334–1336](#), 1977.
- Manuelidis, L., Complex and simple sequences in human repeated DNAs. [Chromosoma 66:1–21](#), 1978.
- Manuelidis, L., Chromosomal localization of complex and simple repeated human DNAs. [Chromosoma 66:23–32](#), 1978.
- Sedat, J. and Manuelidis, L., A direct approach to the structure of eukaryotic chromosomes. [Cold Spring Harbor Symp. Quant. Biol.42:331–350](#), 1978.
- Manuelidis, E.E., Gorgacz, E.J. and Manuelidis, L., Viremia in experimental Creutzfeldt–Jakob disease. [Science 200:1069–1071](#), 1978.
- Manuelidis, E.E., Gorgacz, E.J. and Manuelidis, L., Transmission of Creutzfeldt–Jakob disease to mice with scrapie–like syndromes. [Nature 271:778–779](#), 1978.
- Manuelidis, E.E., Gorgacz, E.J. and Manuelidis, L., Interspecies transmission of Creutzfeldt–Jakob disease to Syrian hamsters with reference to clinical syndromes and strains of agent. [Proc. Natl. Acad. Sci. USA 75:3432–3436](#), 1978.
- Manuelidis, E.E., Manuelidis, L., Pincus, J.H. and Collins, W.F., Transmission from man to hamster of Creutzfeldt–Jakob disease with clinical recovery. [Lancet: 40–42](#), 1978.
- Manuelidis, L. and Wu, J., Homology between human and simian repeated DNA. [Nature 276:92–94](#), 1978.
- Manuelidis, E.E. and Manuelidis, L., Experiments on maternal transmission of Creutzfeldt–Jakob disease in guinea pigs. [Proc. Soc. Exp. Biol. Med. 160:233–236](#), 1979.
- Manuelidis, L. and Manuelidis, E.E., Conservation of repeated DNA sequences in aneuploid human tumor cells. [Chromosoma 72:257–269](#), 1979.
- Manuelidis, L. and Manuelidis, E.E., Surface growth characteristics of defined normal and neoplastic neuroectodermal cells in vitro. [Prog. Neuropath. 4:235–266](#), 1979.
- Manuelidis, E.E. and Manuelidis, L., Observations of Creutzfeldt–Jakob disease propagated in small rodents. In: Slow transmissible diseases of the nervous system (Prusiner, S. and Hadlow, W.J. eds.), N.Y., [2:147–173](#), 1979.
- Manuelidis, E.E. and Manuelidis, L., Clinical and morphological aspects of transmissible Creutzfeldt–Jakob disease. [Prog. Neuropath. 4:1–26](#), 1979.

- Manuelidis, L., Sedat, J. and Feder, R., Soft x-ray lithographic studies of interphase chromosomes. [Ann. N.Y. Acad. Sci. 342:304-325](#), 1979.
- Manuelidis, L., Novel classes of mouse repeated DNAs. [Nucleic Acids Res. 8:3247-3258](#), 1980.
- Wu, J.C. and Manuelidis, L., Sequence definition and organization of a human repeated DNA. [J. Mol. Biol. 142:363-386](#), 1980.
- Manuelidis, L. and Manuelidis, E.E., Search for specific DNAs in Creutzfeldt-Jakob infectious brain fractions using "nick translation". [Virology 109:435-443](#), 1980.
- Manuelidis, L., Consensus sequence of mouse satellite DNA indicates it is derived from tandem 116 basepair repeats. [FEBS Lett. 129:25-28](#), 1981.
- Manuelidis, L., Repeated DNA sequences and nuclear structure. In: Genome Evolution (Dover, G.A. and Flavell, R.B., eds.), Academic Press, Inc., pp. 263-285, 1982.
- Manuelidis, L., Nucleotide sequence definition of a major human DNA, the Hind III 1.9 kb family. [Nucleic Acids Res. 10:3211-3219](#), 1982.
- Manuelidis, L. and Biro, P.A., Genomic Representation of the Hind III 1.9 kb repeated DNA. [Nucleic Acids Res. 10:3221-3239](#), 1982.
- Manuelidis, L., Langer-Safer, P.R. and Ward, D.C., High resolution mapping of satellite DNA using biotin-labeled DNA probes. [J. Cell Biol. 95:619-625](#), 1982.
- Manuelidis, L. and Manuelidis, E.E., Fractionation and infectivity studies in Creutzfeldt-Jakob disease. Banbury Rep. (Cold Spring Harbor) [15: 399-412, 1983](#).
- Manuelidis, E.E., Kim, J.H. and Manuelidis, L., Novel biological properties of Creutzfeldt-Jakob infected brains in vitro. Banbury Rep. (Cold Spring Harbor) [15: 413-424, 1983](#).
- Merz, P.A., Sommerville, R., Wisniewski, H.M., Manuelidis, L. and Manuelidis, E.E., Scrapie-associated fibrils in Creutzfeldt-Jakob disease. [Nature 306:474-476](#), 1983.
- Manuelidis, L. and Ward, D.C., Chromosomal and nuclear distribution of the Hind III 1.9 kb repeat segment. [Chromosoma 91:28-38](#), 1984.
- Manuelidis, L., Active nucleolus organizers are precisely positioned in adult central nervous system cells but not in neuroectodermal tumor cells. [J. Neuropath. Exp. Neurol. 43:225-241](#), 1984.
- Manuelidis, L., Different CNS cell types display distinct and non-random arrangements of satellite DNA sequences, [Proc. Nat. Acad. Sci. USA 81:3123-3127](#), 1984.
- Manuelidis, L. and Manuelidis, E.E., Proliferation and response of oligodendrocytes. [Lab. Invest. 52:1](#), 1985.
- Manuelidis, L., Indications of centromere movement during interphase and differentiation. [Ann. N.Y. Acad. Sci. 450:205-221](#), 1985.
- Manuelidis, L., Valley, S. and Manuelidis, E.E., Specific proteins in Creutzfeldt-Jakob disease and scrapie share antigenic and carbohydrate determinants. [Proc. Nat. Acad. Sci. USA 82:4263-4267](#), 1985.
- Manuelidis, L., Creutzfeldt-Jakob disease prion proteins in human brains. [N. Eng. J. Med. 312:1643-1644](#), 1985.

- Manuelidis, L. and Manuelidis, E.E., Recent developments in scrapie and Creutzfeldt–Jakob disease. [Prog. Med. Virol. 33: 78–98](#), 1985.
- Manuelidis, L., In-situ detection of DNA sequences using biotinylated probes. [Focus 7:4–8](#), 1985.
- Manuelidis, L., Individual interphase chromosome domains revealed by in situ hybridization. [Human Genet. 71:288–293](#), 1985.
- Manuelidis, E.E., Kim, J.H., Mericangas, J.R. and Manuelidis, L., Transmission to animals of Creutzfeldt–Jakob disease from human blood. [Lancet ii:896–897](#), 1985.
- Mottez, E., Rogan, P.K. and Manuelidis, L., Conservation in the 5' region of the long interspersed mouse L1 repeat: implications of comparative sequence analysis. [Nucleic Acids Res. 14: 3119–3136](#), 1986.
- Oleszak, E.L., Manuelidis, L. and Manuelidis, E.E., In vitro transformation elicited by Creutzfeldt–Jakob infected brain material. [J. Neuropath. Exp. Neurol. 45:489–502](#), 1986.
- Rasenick, M.M., Valley, S., Manuelidis, E.E. and Manuelidis, L., Creutzfeldt–Jakob infection increases adenylate cyclase activity in specific regions in guinea pig brain. [FEBS Lett. 198:164–168](#), 1986.
- Sklaviadis, T., Manuelidis, L. and Manuelidis, E.E., Characterization of major peptides in Creutzfeldt–Jakob disease and scrapie. [Proc. Natl. Acad. Sci. USA 83:6146–6150](#), 1986. (PMID: 3090551)
- Manuelidis, L., Sklaviadis, T. and Manuelidis, E.E., On the origin and significance of scrapie associated fibrils. In: Unconventional Virus Diseases of the Central Nervous System. L.A. Court, D. Dormont, P. Brown and D.T. Kingsbury eds, 1986, pp. 489–507.
- Manuelidis, L., Fritch, W.W. and Manuelidis, E.E., FMAU is not effective in experimental Creutzfeldt–Jakob disease. In: Unconventional Virus Diseases of the Central Nervous System. L.A. Court, D. Dormont, P. Brown and D.T. Kingsbury eds, 1986, pp. 508–512.
- Manuelidis, E.E., Kim, J.H. and Manuelidis, L., Destructive white matter lesions in experimental Creutzfeldt–Jakob disease. In: Unconventional Virus Diseases of the Central Nervous System. L.A. Court, D. Dormont, P. Brown and D.T. Kingsbury eds, 1986, pp. 221–230.
- Manuelidis, L., Sklaviadis, T. and Manuelidis, E.E., Evidence suggesting that PrP is not the infectious agent in Creutzfeldt–Jakob disease. [EMBO J. 6:341–347](#), 1987.
- Manuelidis, L., Tesin, D.M., Sklaviadis, T. and Manuelidis, E.E., Astrocyte gene expression in Creutzfeldt–Jakob disease. [Proc. Natl. Acad. Sci. USA 84:5937–5941](#), 1987.
- Manuelidis, E.E., Fritch, W.W., Kim, J.H. and Manuelidis, L., Immortality of cell cultures derived from brains of mice and hamsters infected with Creutzfeldt–Jakob disease agent. [Proc. Natl. Acad. Sci. USA 84:871875](#), 1987.
- Webster, H. deF., Lamperth, L., Favilla, J.T., Lemke, G., Tesin, D. and Manuelidis, L., Use of a biotinylated probe and in-situ hybridization for light and electron microscopic localization of Po mRNA in myelin forming Schwann cells. [Histochem. 86:441–444](#), 1987.
- Singer, R.H., Lawrence, J.B., Langevin, G.L., Rashtchian, R.N., Villnave, C.A., Cremer, T., Tesin, D.M., Manuelidis, L. and Ward, D.C. Double labelling in situ hybridization using non-isotopic detection. *Acta Histochem. Cytochem.* 20:589–599, 1987.

- Manuelidis, L., Murdoch, G. and Manuelidis, E.E., Potential involvement of retroviral elements in human dementias. [Ciba Found. Symp. 135: 117-134](#), 1988.
- Manuelidis, L. and Borden, J., Reproducible compartmentalization of individual chromosome domains in human CNS cells revealed by in situ hybridization and three-dimensional reconstruction. [Chromosoma 96:397-401](#), 1988.
- Kim, J.H., Manuelidis, L. and Manuelidis, E.E., Cerebral glycosidases in experimental Creutzfeldt-Jakob disease. [J. Neurol. Sci. 84:95-100](#), 1988.
- Murdoch, G.H., Manuelidis, L., Kim, and Manuelidis, E.E. β -amyloid gene dosage in Alzheimer's disease. [Nucleic Acids Res. 16:1](#), 1988
- Manuelidis, E.E., de Figueiredo, J.M., Kim J.H., Fritch, W.W. and Manuelidis, L. Transmission studies from blood of Alzheimer disease patients and healthy relatives. [Proc. Natl. Acad. Sci. USA 85:4898-4901](#), 1988.
- Cremer, T., Tesin, D., Hopman, A.H.N. and Manuelidis, L., Rapid interphase and metaphase assessment of specific chromosomal changes in neuroectodermal tumor cells by in situ hybridization with chemically modified DNA probes. [Exp. Cell Res. 176:199-220](#), 1988.
- Oleszak, E.L., Murdoch, G., Manuelidis, L. and Manuelidis, E.E., Growth factor production by Creutzfeldt-Jakob disease cell lines. [J. Virol. 62:3103-3108](#), 1988.
- Lamperth, L., Manuelidis, L. and Webster, H. de F., Non myelin-forming perineuronal Schwann cells in rat trigeminal ganglia express Po myelin glycoprotein mRNA during post natal development. [Mol. Brain Res. 5:177-181](#), 1988. (PMID 2469927)
- Lichter, P., Cremer, T., Borden, J., Manuelidis, L. and Ward, D.C., In situ delineation of individual human chromosomes in normal metaphase spreads and interphase nuclei using recombinant DNA libraries. [Hum. Genet. 80:224-234](#), 1988. (PMID 3192212)
- Cremer, T., Lichter, P., Borden, J., Ward, D.C. and Manuelidis, L., Detection of chromosome aberrations in interphase tumor cells by in situ hybridization using chromosome specific library probes. [Hum. Genet. 80:235-246](#), 1988.
- Lichter, P., Cremer, T., Tang, C., Watkins, P.C., Manuelidis, L. and Ward, D.C., Rapid detection of human chromosome 21 aberrations by in situ hybridization. [Proc. Natl. Acad. Sci. USA 85:9664-9668](#), 1988.
- Borden, J. and Manuelidis, L., Movement of the X chromosome in epilepsy. [Science 242:1687-1691](#), 1988.
- Sklaviadis T., Manuelidis L., and Manuelidis, E.E., Physical properties of the Creutzfeldt-Jakob disease agent. [J. Virol. 63:1212-1222](#), 1989.
- Chen, T.L. and Manuelidis, L., Neuroblastoma double minutes isolated by pulsed field gel electrophoresis without prior strand cleaving treatments. [Genomics 4:430-433](#), 1989.
- Akowitz, A. and Manuelidis, L., A novel cDNA/PCR strategy for efficient cloning of small amounts of undefined RNA. [Gene 81: 295-306](#), 1989.
- Manuelidis, E.E. and Manuelidis, L., Suggested links between different types of dementias: Creutzfeldt-Jakob Disease, Alzheimer's Disease and retroviral CNS infections. [Alzheimer's Disease Related Disorders 3:100-109](#), 1989.

- Manuelidis, L. and Manuelidis, E.E., Creutzfeldt–Jakob Disease and dementias. [Microb. Path. 7:157–164](#), 1989.
- Chen, T.L. and Manuelidis, L., SINEs and LINEs cluster in distinct DNA fragments of Giemsa band size. [Chromosoma 98:309–316](#), 1989.
- Murdoch, G., Sklaviadis, T., Manuelidis, E.E. and Manuelidis, L., Potential retroviral RNAs in Creutzfeldt–Jakob Disease. [J.Virol. 64:1477–1486](#), 1990.
- Manuelidis, L. and Chen, T.L., A unified model of eukaryotic chromosomes. [Cytometry 18:8–25](#), 1990.
- Sklaviadis, T., Akowitz, A., Manuelidis, E.E., and Manuelidis, L., Nuclease treatment results in high specific purification of Creutzfeldt–Jakob disease infectivity with a density characteristic of nucleic acid–protein complexes. [Arch. Virol.112:215–229](#), 1990.
- Akowitz, A., Sklaviadis, T., Manuelidis, E.E. and Manuelidis, L., Nuclease resistant polyadenylated RNAs of significant size are detected by PCR in highly purified Creutzfeldt–Jakob Disease preparations. [Microb. Path. 9:33–45](#), 1990.
- Manuelidis, L., A view of interphase chromosomes. [Science 250:1533–1540](#), 1990.
- Manuelidis, E.E., and Manuelidis, L. Search for a transmissible agent in Alzheimer's disease: Studies of human buffy coat. [Current Top. Microbiol. Immunol.](#) 172: 275–280, 1990.
- Manuelidis, L., Heterochromatic features of an 11 Mb transgene in brain cells. [Proc. Natl. Acad. Sci. USA 88:1049–1053](#), 1991.
- Taruscio, D., Manuelidis, L., Integration site preferences of endogenous retroviruses. [Chromosoma 101:141–156](#), 1991.
- Sklaviadis, T., Dreyer, R., and Manuelidis, L., Analysis of Creutzfeldt–Jakob Disease infectious fractions by gel permeation chromatography and sedimentation field flow fractionation. [Virus Res. 26:241–254](#), 1992.
- Akowitz, A., Manuelidis, E.E., and Manuelidis, L., Protected endogenous retroviral sequences copurify with infectivity in experimental Creutzfeldt–Jakob Disease. [Arch. Virol. 130:301–316](#), 1993.
- Sklaviadis, T., Akowitz, A., Manuelidis, E.E., and Manuelidis, L., Nucleic acid binding proteins in highly purified Creutzfeldt – Jakob disease preparations. [Proc. Natl. Acad. Sci. USA 90:5713–5717](#), 1993.
- Manuelidis, E.E. and Manuelidis, L., A transmissible Creutzfeldt–Jakob Disease–like agent is prevalent in the human population. [Proc. Natl. Acad. Sci. USA](#), 90:7724–7728, 1993.
- Manuelidis, L. and Manuelidis, E.E., Transmissible encephalopathies. In: Encyclopedia of Virology, R.G. Webster, Ed., Academic Press, 1994, pp. 1361–1369.
- Manuelidis, L., Dementia, neurodegeneration and viral mechanisms of disease from the perspective of human transmissible agents. [Ann. N.Y. Acad. Sci., 724:259–281](#), 1994.
- Akowitz, A., Sklaviadis, T., Manuelidis, L., Endogenous viral complexes with long RNA cosediment with the agent of Creutzfeldt–Jakob disease. [Nucleic Acid Res. 22:1101–1107](#), 1994.
- Manuelidis, L., Genomic stability and instability in different neuroepithelial tumors: A role for chromosome structure? [J. Neuro–Oncol,18:225–239](#),1994.

- Manuelidis, L., The dimensions of Creutzfeldt – Jakob disease. [Transfusion, 34:915–928](#), 1994.
- Manuelidis, L., Sklaviadis, T., Akowitz, A., Fritch, W., Viral particles are required for infection in neurodegenerative Creutzfeldt–Jakob disease. [Proc. Natl. Acad. Sci. USA, 92:5124–5128](#), 1995.
- Manuelidis, L., Fritch W., Infectivity and host responses in Creutzfeldt–Jakob disease. [Virology, 216:46–59](#), 1996. (PMID 8615506)
- Dron, M. and Manuelidis, L., Visualization of viral candidate cDNAs in infectious brain fractions from Creutzfeldt–Jakob Disease by Representational Difference Analysis. [J. NeuroVirol., 2:240–248](#), 1996.
- Manuelidis, L., In the community of dinosaurs: the viral view. In: Transmissible subacute spongiform encephalopathies: prion diseases, L. Court and B. Dodet, eds. Elsevier, 1996, pp. 375–387.
- Manuelidis, L. Interphase chromosome positions and structure during silencing, transcription and replication. In: Nuclear Organization, Chromatin Structure and Gene Expression, R. van Driel, ed., Oxford University, Oxford, UK 1997,145–168.
- Manuelidis, E.E., Kim, JH, Manuelidis, L.. Transmissible Encephalopathies. In: Pathology of Infectious Diseases, ed. DH Connors et al Appleton and Lange; Stanford, CT 1997.
- Manuelidis, L., Decontamination of Creutzfeldt–Jakob Disease and other transmissible agents. [J NeuroVirol., 3: 62–65](#), 1997.
- DeGiorgio, L.A., Bernstein, J.J., Manuelidis, L., Blass, J.P. Human A beta–amyloid and amyloid precursor protein accumulates in rat brain cells after cultured human leptomeningeal fibroblast implants. [Brain Res. 752:35–44](#), 1997.
- Manuelidis, L. Deadly Feasts by Richard Rhodes (book review). [Commentary 104:61–62](#), 1997.
- Manuelidis, L., Fritch, W., Xi, Y.G. Evolution of a Strain of CJD That Induces BSE–Like Plaques. [Science 277:94–98](#), 1997.
- Manuelidis, L. Beneath the Emperor's clothes: The body of data in scrapie and CJD. [Annales de L'Institute Pasteur 8:311–326](#), 1997.
- Behar, K.L., Boucher, R., Fritch, W., Manuelidis, L. Changes in N–Acetylaspartate and Myo–Inositol detected in the cerebral cortex of hamsters with Creutzfeldt–Jakob disease. [Magnetic Resonance Imaging 16: 813](#), 1998
- Manuelidis, L., Vaccination with an attenuated CJD strain prevents expression of a virulent agent. [Proc. Nat. Acad. \(USA\) 95:2520–2525](#), 1998.
- Manuelidis, L., Fritch, W., Zaitsev, I., Dapsone to delay symptoms of Creutzfeldt–Jakob disease. [The Lancet 352:456](#), 1998. (PMID 9708762)
- Baker, C., Lu, Z., Zaitsev, I., Manuelidis, L. Microglial activation varies in different models of Creutzfeldt Jakob disease. [J. Virol. 72: 5089–5097](#), 1999.
- Manuelidis, L. Antiscrapie drug action. (letter). [Science 288:273–274](#), 2000.
- Manuelidis, L. The force of prions. (book review) [The Lancet 355](#), 2083, 2000.

- Manuelidis, L., Zaitsev, I., Koni, P., Lu, Z.Y., Flavell, R.A., Fritch, W. Follicular dendritic cells and the dissemination of Creutzfeldt–Jakob Disease. [J. Virol. 74:8614–8622](#), 2000.
- Manuelidis, and Lu, Z–Y Attenuated Creutzfeldt–Jakob Disease agents can hide more virulent infections. [Neurosci. Lett. 293: 163–166](#), 2000.
- Manuelidis, L. Penny wise, Pound foolish – a retrospective. [Science 290: 2257](#), 2000 (letter)
- Radebold K, Horakova E, Gloeckner J, Ortega G, Spray DC, Vieweger H, Siebert K, Manuelidis L, Geibel JP. Gap junctional channels regulate acid secretion in the mammalian gastric gland. [J Membr Biol. 83:147–53](#), 2001.
- Radebold K, Chernyak M, Martin D, Manuelidis L. Blood borne transit of CJD from brain to gut at early stages of infection. [BMC Infect Dis.1\(1\):20–25](#), 2001.
- Geibel JP, Wagner CA, Caroppo R, Qureshi I, Gloeckner J, Manuelidis L, Kirchhoff P, Radebold K. The stomach divalent ion–sensing receptor scar is a modulator of gastric acid secretion. [J Biol Chem. 276:39549–52](#), 2001.
- Manuelidis, L. Re: peripheral prion pursuit J. Clin Invest. ([online letter](#))
- DeGiorgio LA, Manuelidis L, Bernstein JJ. Transient appearance of amyloid precursor protein plaques in the brain of thymectomized rats after human leptomenigeal cell grafts. [Neurosci Lett. 322:62–6](#), 2002.
- Manuelidis, L. The infectious agent in TSEs: notes from the underground. Nova Acta Leopoldina NF 87, Nr. 327:91–110, 2002.
- Baker, C.A., Martin, D, Manuelidis, L. Microglia from Creutzfeldt–Jakob Disease–infected brains are infectious and show specific mRNA activation profiles. [J. Virol.76:10905–13](#), 2002.
- Baker, CA. and Manuelidis, L. Unique inflammatory RNA profiles of microglia in Creutzfeldt–Jakob disease. [Proc. Natl. Acad. Sci. USA100:675–679](#), 2003.
- Manuelidis, L and Lu, Z.Y. Virus–like interference in the latency and prevention of Creutzfeldt–Jakob disease. [Proc. Natl. Acad. Sci. USA100:5360–5365](#), 2003.
- Manuelidis, L. Transmissible Encephalopathies: Speculations and realities. [Viral Immunology 16: 123–129](#), 2003.
- Baker, C.A., Lu, Z.Y., Manuelidis, L. Early induction of interferon–responsive mRNAs in Creutzfeldt–Jakob disease. [Journal of NeuroVirology,10:29–40](#), 2004
- Arjona A, Simarro L, Islinger F, Nishida N, Manuelidis L. Two Creutzfeldt–Jakob disease agents reproduce prion protein–independent identities in cell cultures. [Proc Natl Acad Sci U S A. 101:8768–73](#), 2004.
- Lu, Z.Y., Baker, C.A., Manuelidis, L. New molecular markers of early and progressive CJD brain infection. [J Cell Biochem.93:644–652](#), 2004.
- Nishida, N., Katamine, S. Manuelidis, L. Reciprocal interference between specific CJD and scrapie agents in neural cell cultures. [Science 310:493–496](#), 2000
- Manuelidis, L. A virus behind the mask of prions? [Folia Neuropathol. 42 Suppl. B, 10–23](#), 2004.

- Manuelidis, L. A 25nm virion is the likely cause of Transmissible Spongiform Encephalopathies. [J Cell Biochem. 100, 897-915](#), 2006.
- Manuelidis, L., Yu, Z.-X., Barquero, N., and Mullins, B. Cells infected with scrapie and Creutzfeldt-Jakob disease agents produce intracellular 25-nm virus-like particles. [Proc Natl Acad Sci USA 104](#), 1965-1970, 2007.
- Liu, Y, Sun, R, Chakrabarty, T. and Manuelidis, L: A rapid accurate culture assay for infectivity in transmissible encephalopathies. [J.NeuroVirol.14:352-361](#), 2008.
- Sun, R, Liu, Y., Zhang, H., and Manuelidis, L. Quantitative recovery of scrapie agent with minimal protein from highly infectious cultures. [Viral Immunol. 21: 293-302](#), 2008.
- Manuelidis, L, Liu, Y, Mullins, B.: Strain-specific viral properties of variant Creutzfeldt-Jakob Disease (vCJD) are encoded by the agent and not by host prion protein. [J Cell Biochem 106:220-231](#), 2009.
- Manuelidis, L., Chakrabarty, T., Miyazawa, K., Nduom, N-A., Emmerling, K. The kuru infectious agent is a unique geographic isolate distinct from Creutzfeldt-Jakob and scrapie isolates. [Proc Natl Acad Sci USA](#) July 2009.
- Manuelidis, L. Transmissible encephalopathy Agents: Virulence, geography and clockwork. [Virulence 1:2, 1-4](#); March/April 2010 epub: Dec 09
- Miyazawa, K. and Manuelidis, L. Agent-specific Shadoo responses in Transmissible Encephalopathies. [J Neuroimmune Pharmacol. 5:155-163](#), 2010.
- Manuelidis, L. The backwards evolution of prions. [Science online 2010](#) (e-letter)
- Miyazawa, K , Emmerling, K and Manuelidis, L. Proliferative arrest of neural cells induces prion protein synthesis, nanotube formation and cell-to-cell contacts. [J Cell Biochem 111:239-47](#), 2010.
- Manuelidis, L. Nuclease resistant circular DNAs copurify with infectivity in scrapie and CJD. [J Neurovirol](#) eprint Dec 2010