

CURRICULUM VITAE

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research &: <http://medicine.yale.edu/lab/manuelidis/index.aspx>

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 -1997
Professor and Head of Neuropathology with tenure 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
Distinguished Service: Yale Alumni in Medicine 2018

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
Food and Drug Administration (FDA): TSE Advisory Committee 2006-2010

Other (selected):

Consultant: Medical Research Council (England), 1989 & 1990
Food and Drug Administration consultant 1994-present
Environmental Protection Agency, Scientific Advisory Panel, 2008

Grant peer reviewer (1982-2016):

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
Virulence, 2011-2015

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; Internat'l. 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

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, Poetry magazine etc.

Nominated twice for Pushcart Prize

Poetry Books: "Out of Order", L. Manuelidis available at Amazon.com, Barnes & Noble etc.

"One / divided by zero" available at Amazon.com

See website: <http://medicine.yale.edu/lab/manuelidis/poetry/>

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

MAJOR GRANTS (PI on grants with continuous strong funding from 1970- 2016

(up to \$5 million each in direct costs) from various Institutes:

PI: NIH RO 1 CA15044 grant for ~24 years starting in 1970

PI : Program Project PO1 AG03106: Animal models for the study of dementias and Aging ~1982-2000
(as co PI before 1992)

PI: RO1: Creutzfeldt-Jakob Disease NS012674 ~30 years continuous funding

PI: others; DOD and NIAID 3-4 year grants

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. Brain Res. 96:181-186, 1975.

Manuelidis, L., The effect of dbcAMP on adrenal chromaffin cells in organotypic cultures. J. Neurocytol. 5:1-10, 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 i: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 181:3123-3127, 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.

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 84:871-875, 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.

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.

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.

Kolluri, RV, Manuelidis L, Cremer T, Sait S, Gezer S, Raza A. Detection of monosomy 7 in interphase cells of patients with myeloid disorders. Am J Hematol 33:117-122, 1990. PMID 2301370.

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.

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