

## Curriculum Vitae

(updated through 1/19/2019)

### I. Personal data

Douglas C. Miller      born May 9, 1953    New York, New York

Home address: 5006 Thornbrook Ridge, Columbia, MO 65203

Work address: Department of Pathology and Anatomical Sciences  
University of Missouri School of Medicine  
One Hospital Drive  
Columbia, MO 65212

Married Feb. 10, 1979    Sherry Ann Waddell; three children

Licenses, etc.    Missouri Medical License No. 2007035962 expires 1/31/2020  
Missouri BNDD No. 1159516486 expires 1/31/2020  
New York Medical License No. 170281 expires 4/30/2020  
Massachusetts Medical License No. 51955 expires 5/9/2019  
New Jersey Medical License No. MA44350 expires 6/30/2019  
Pennsylvania Medical License MD-048930-L, inactive status as  
of 1/1/2013  
New Jersey C.D.S. No. D-39746 expired 10/31/08; inactive  
U.S. Federal D.E.A. No. AM2682145 expires 1/31/2020  
Diplomate, American Board of Pathology (certified in Anatomic  
Pathology and Neuropathology) (lifetime certification, 1985)  
Diplomate, American Board of Pathology (recertification in  
Pathology, January 2014, expires December 2024)  
Diplomate, National Board of Medical Examiners, Parts I, II, &  
III  
New York State Clinical Laboratory Director's Certificate of  
Qualification (Histopathology), #B101107, expired 7/1/08  
Florida Department of Health Medical Doctor Expert Witness  
Certification, No. MEEW349, expired 1/9/2014; new  
Certificate No. MEEW1702 expired 1/27/2016; new certificate  
No MEEW3446 expired 12/28/2017.

### II. Education

Secondary school: Stuyvesant High School, New York, N.Y. graduated 1970  
College: Williams College, Williamstown, Mass. B.A. with highest honors  
(Biology), magna cum laude, 1974  
Medical School: University of Miami School of Medicine, Miami, Fl. MD, 1978  
Graduate School: University of Miami, Coral Gables, Fl. PhD, Physiology &  
Biophysics, 1980

Post-graduate: Anatomic Pathology residency, Massachusetts General  
Hospital, July 1980-June 1982  
Neuropathology residency, M.G.H., July 1982-June 1984

### III. Fellowships, Awards

Conant-Harrington Prize for research in Biology, Williams College, 1974  
Albert I. Cohen memorial prize for research, University of Miami School of  
Medicine, 1978  
University of Miami Graduate Fellow, 1978-79  
Muscular Dystrophy Association Post-Doctoral Research Fellow, July 1978-June  
1979, renewed July 1979-June 1980  
Phi Beta Kappa (Williams College) 1974  
Sigma Xi Associate member 1974 (Williams College)  
Member 1978 (University of Miami)  
Alpha Omega Alpha (University of Missouri) 2014

### III. Fellowships, Awards (cont)

Children's Brain Tumor Foundation 1997 Jean and Nicholas Leone Grant Award  
(for "Differentiation, Proliferative Activity, and Prognosis in  
Pediatric Primitive Neuroectodermal Tumors of the Central Nervous  
System")

"Ambassador", United States-Canadian Academy of Pathology, 2002-2007  
Attending of the Year, NYU Department of Pathology, 2001-2002 academic year  
(teaching award voted on by the residents and fellows of the Department)

Paul CJ Sun MD Distinguished Faculty Award for Outstanding Contribution to  
Teaching, University of Missouri School of Medicine, Department of  
Pathology & Anatomical Sciences, April 29, 2011

Outstanding Teacher Award, Department of Neurology, University of Missouri  
School of Medicine, 2012-2013

Meritorious Service Award, The New York Association of Neuropathologists ("The  
Neuroplex"), November 2007.

First Prize, Neurology Books, 2010 British Medical Association Book Awards  
(for Modern Surgical Neuropathology)

### IV. Memberships

American Association of Neuropathologists, active member  
U.S.-Canadian Academy of Pathology (I.A.P.)  
College of American Pathologists, fellow  
American Society of Clinical Pathologists, fellow  
International Society of Neuropathology  
Society for Neuro-Oncology  
The Neuroplex (NY State Association of Neuropathologists)  
Association of Pathology Chairs

### V. Research Interests

College: Honors Thesis (Biology): Color vision and reticular cell  
ultrastructure in the eye of the crayfish (*Procambarus*)

Medical and Graduate School, PhD Thesis: Aspects of the vesicle hypothesis  
(Electrophysiological and ultrastructural investigation of quantal synaptic  
transmission)

In progress:

- 1) Histopathological markers of prognosis in primary human brain tumors,  
including meningiomas and gliomas.
- 2) Clinical-pathological correlations in neurological diseases, especially  
Alzheimer's Disease and related disorders, and movement disorders.
- 4) Molecular genetics, growth factors and immunocytochemical markers of  
primary human brain tumors, including markers of tumor stem cells
- 5) MRI-pathology correlations, including in brain tumor and stroke.
- 6) Ischemic stroke models, and protein expression alterations correlated with  
morphological changes in acute ischemia
7. Pathology of central nervous system trauma, especially in infants

**VI. Positions****A) Current**

University of Missouri School of Medicine, December 2007-current:

Clinical Professor of Pathology and Anatomical Sciences  
Interim Chair, Department of Pathology & Anatomical Sciences (from 9/27/2018)  
Program Director, Pathology Residency, 2009-  
Associate Medical Examiner, Boone and Callaway Counties, 2011-  
Director, Electron Microscopy Laboratory, 2013-

Neuropathologist, University of Missouri Healthcare (University Hospital,  
Women's & Children's Hospital)  
Contract Physician/Consultant, Department of Pathology, Harry S Truman  
Veterans Hospital, Columbia, MO 2008-current

**B) NYU Medical Center Appointments, June 1987-November 2007:**

Professor of Neuropathology and Neurosurgery, New York University Medical  
Center/School of Medicine 2002-2007

Director, Division of Neuropathology, New York University Medical Center,  
1994-2007

Attending Pathologist, Tisch Hospital (NYU University Hospital), 2006-2007

Attending Pathologist, Bellevue Hospital Center, 2004-2007

Neuropathologist, Hospital for Joint Diseases/The Orthopaedic Institute, New  
York, NY, 1990-2007

Consultant in Neuropathology, Veterans Affairs Medical Center, New York, NY,  
1991-2007

Associate Professor of Neuropathology and Neurosurgery, New York University  
Medical Center/School of Medicine, 1994-2002

Assistant Professor, Department of Pathology, (joint appointment:  
Neurosurgery), New York University Medical Center/School of Medicine,  
1987-1994

Associate Attending Pathologist, Tisch Hospital (NYU University Hospital),  
1987-2006

Assistant Attending Pathologist, Bellevue Hospital Center, 1987-94

Associate Attending Pathologist, Bellevue Hospital Center, 1994-2003

Director, Pathology Residency Training Programs, New York University School of  
Medicine, 6/1997-10/2004

Director, Neuropathology Residency/Fellowship, New York University School of  
Medicine, 6/1994-7/2006

**Consultant Appointments:**

Consultant Neuropathologist, Jackson County (Missouri) Medical Examiner, 2013-  
present;

Consultant Neuropathologist, County Medical Examiner's Offices, New Jersey  
counties of Morris, Hunterdon, and Warren 1998-present; Union County  
1998-2007, Bergen County 1998-2011

Consultant Neuropathologist, Lenox Hill Hospital, New York, NY 2005-2007

Consultant in Neuropathology, Veterans Affairs Medical Center, Lyons, NJ,  
1985-1996

Consultant Neuropathologist, Cape Cod Hospital, Hyannis, MA, 1984-1996

Consultant in Neuropathology, Cooper Hospital/University Medical Center,  
Camden, NJ, 1986-2000

Consultant in Neuropathology, St. Luke's Hospital, Bethlehem, PA, 1992-1999

Consultant Neuropathologist, Regional Medical Examiner (four county region  
including Essex, Hudson, Somerset, and Passaic counties, formerly Office of  
the Chief Medical Examiner), State of New Jersey, 1995-98

Consultant Neuropathologist, Office of the Chief Medical Examiner of New York  
City, 1988-1989

C) UMDNJ-Robert Wood Johnson Medical School, July 1984-June 1987:

Clinical Assistant Professor, and Consultant Neuropathologist, UMDNJ-Robert Wood Johnson Medical School, 1987-  
 Assistant Professor, Department of Pathology, University of Medicine and Dentistry of New Jersey--Robert Wood Johnson Medical School, 1984-1987  
 Neuropathologist, Robert Wood Johnson University Hospital, New Brunswick, NJ, 1984-1988  
 Neuropathologist, St. Peter's Medical Center, New Brunswick, NJ, 1984- 1988  
 Consultant in Neuropathology, Muhlenberg Hospital, Plainfield, NJ, 1984-1988

Extramural and Intramural Committee Appointments:

Children's Oncology Group (formerly the Children's Cancer Group):

Member, Central Nervous System Tumors Disease Committee 2001- (formerly member of Brain Tumor Strategy Group 1992-2001, re-organized as Disease Committee 2001); Medulloblastoma Steering Committee, 2009- ; Infant Brain Tumor protocol CCG 9921 committee 1990- ; Idarubicin for recurrent brain tumors protocol CCG 9298 committee 1991-95; High risk PNET/medulloblastoma protocol CCG 9931 committee 1993- ; Standard risk medulloblastoma protocol CCG 9932 committee 1993- ; PNET protocol committees CCG 99701, CCG 99702 1997-; Pathology Discipline committee member 1991- ; Head, Retrospective study of ependymomas: clinico-pathologic correlations, CCG Z913 study; Review neuropathologist (1 of 3) ACNS1422 Reduced Therapy for *wnt*-Activated Medulloblastomas.

American Association of Neuropathologists:

Annual Meeting Awards Committee member, 1990, 1991  
 Professional Affairs Committee member 1992-2000

The Neuroplex (The New York State Association of Neuropathologists): Founding Member, 1989; Secretary pro tempore 1999-2001; Secretary 2001-2003, 2004-2006, 2006-2007

MU Department of Pathology & Anatomical Sciences Education Committee: member, 2009-2010

MU Department of Pathology & Anatomical Sciences, Residency Program Director, 2009- ; Chair, Residency Oversight Committee (formerly Education Committee), 2009- ; Chair, Resident Selection Subcommittee, 2011-

MU Department of Pathology & Anatomical Sciences, Chair, Search Committee for new Blood Bank faculty, 12/2011-7/2012; Chair, Search Committee for new Hematology Faculty, 3/2012-12/2012; Chair, Search Committee for new Molecular Pathology Faculty, 2/2013- ; Member, Search Committee for Gastrointestinal Pathology Faculty; Chair, Search Committee for Medical Director of Laboratories, 2018.

MU Graduate Medical Education Committee: member, 2009-; member, Subcommittee on Future Planning/Funding, 2012-2015

MU School of Medicine: Committee for Civility and Respect in the Learning Environment, member, 2015-

MU School of Medicine: House Staff Complement Review Committee, member 2016-

University of Missouri Healthcare/University Physicians Group: member, Finance Committee, Management Committee 9/2018-

MU School of Medicine/University of Missouri Healthcare Committees/Councils memberships required for Chairs of Departments: Council of Chairs; Executive Clinical Chairs Council; Hospital Operations Clinical Care Committee; University Physicians Management Committee, Finance Committee

Committee Memberships, cont:

NYU SOM Department of Pathology Residents Advisory Committee: member, 1992-2006; Chairman, subcommittee on resident curriculum, 1994-97; member, subcommittee on evaluations, 1994-2004; member, temporary subcommittee for contingency planning, 1996-97; Director, Pathology Residency Program and Chairman, Residency Advisory Committee, 1997-2004; Chairman, subcommittee on residency selection, 1997-2004

NYU SOM Graduate Medical Education Committee member 1994-2004; Chairman, Dean's Task Force on Autopsies, 2001; member, Internal Review Subcommittee, 2002-2004

Pathology Residency Directors' Section (PRODS) of the Association of Pathology Chairs (APC): member, 1997-2004, 2009- ; At-Large Member, PRODS Council, 7/02-7/04; Vice-Chairman, 7/04-10/04

Editorial Review Board: Journal of Child Neurology  
Child's Nervous System  
Journal of Neuropathology & Experimental Neurology

reviewer for: Neurosurgery; Journal of Neuropathology and Experimental Neurology; Brain Pathology; Journal of Neurooncology; Human Pathology; Archives of Pathology and Laboratory Medicine; Journal of Neurology, Neurosurgery, & Psychiatry; Cancer; Neurobiology of Disease; Journal of Child Neurology; American Journal of Clinical Pathology; Child's Nervous System; BMC Cancer; Diagnostic Cytopathology; Histopathology; Case Reports in Radiology; Case Reports in Neurological Medicine

Scientific Review Panel, Department of Defense Congressionally Directed Medical Research Programs, Neurofibromatosis Panel B and Tuberous Sclerosis Complex: 2004, 2005, 2006, 2007, 2008, 2009 (Chair, NF Panel for Clinical Trials Proposals, 2009); Neurofibromatosis Research Programmatic Panel (formerly "Integration Panel"), 2010- , Chair 2014-2016); Chair, External Advisory Board, Neurofibromatosis Clinical Trial Consortium (as funded by Dept of Defense)

ACGME Pathology Neuropathology Subspecialty Milestones 2.0 Committee 2018-

**VII. Grant Support**

NIH R21/33 "Development and validation of a genetically engineered model of neurofibromatosis type 2 to facilitate discovery of neurotherapeutics" J Kissil PhD Principal Investigator; Consortium Subcontractor Principal Investigator/Project Director, Histopathology (total direct costs \$41338)

## VIII. Publications

## A) Books

1. Perkin GD, Hochberg FH, **Miller DC**. Atlas of Clinical Neurology, 2nd edition. Wolfe, London, 1993.
2. Miller DC. Modern Surgical Neuropathology. Cambridge University Press, New York, 2009.
3. Perkin GD, Miller DC, Lane R, Hochberg FH, Patel MC. Atlas of Clinical Neurology, 3<sup>rd</sup> edition. Saunders-Elsevier, Philadelphia, 2010.

## B) Papers and Chapters

1. **Miller DC**, Weinstock MM, Magleby KL. Is the quantum of transmitter release composed of subunits? Nature (London) 274,388-390, 1978.
2. Magleby KL, **Miller DC**. Is the quantum of transmitter release composed of subunits--a critical analysis. J Physiol (London) 311, 267-287, 1981.
3. **Miller DC**, Dahl GP. Early events in calcium-mediated liposome fusion. Biochim Biophys Acta 689, 165-169, 1982.
4. **Miller DC**, Gang DL, Gavris V, Alroy J, Ucci AA, Parkhurst EC. Villous adenoma of the bladder--a morphological or biological entity? Am J Clin Pathol 79,728-731, 1983.
5. **Miller DC**, Goodman ML, Pilch BZ, Shi SR, Dickersin GR, Halpern H, Norris CM jr. Mixed olfactory neuroblastoma and carcinoma. Cancer 54, 2019-2028, 1984.
6. Schultze RA, **Miller DC**, Kerr CS, Micheli LJ. Mechanoreceptors in human cruciate ligaments--A histological study. J Bone & Joint Surg 66A, 1072-1076, 1984.
7. Wechsler LR, Gross R, **Miller DC**. Meningeal gliomatosis with "negative" CSF cytology. The value of GFAP staining. Neurology 34, 1611-1615, 1984.
8. **Miller DC**, Ojemann RG, Proppe KH, McGinnis BD, Grillo HC. Benign metastasizing meningioma: A case report and review of the literature. J Neurosurg 62, 763-766, 1985.
9. Martuza RL, **Miller DC**, MacLaughlin DT. Estrogen and progestin binding by cytosolic and nuclear fractions of human meningiomas. J Neurosurg 62, 750-756, 1985.
10. Ropper AH, **Miller DC**. Acute traumatic midbrain hemorrhage. Ann Neurol 18, 80-86, 1985.
11. Jay JR, MacLaughlin DT, Badger TM, **Miller DC**, Martuza RL. Hormonal modulation of Schwann cell tumors. I. The effects of estradiol and tamoxifen on methylnitrosourea-induced rat Schwann cell tumors. Ann NY Acad Sci 486, 371-382, 1986.
12. Sage JI, Weinstein MP, **Miller DC**. Chronic encephalitis due to Herpes simplex virus: two cases. Neurology 35,1470-1472, 1985.

13. Lepore FE, Gulli V, **Miller DC**. Neuroophthalmological findings with neuropathological correlation in bilateral thalamic-mesencephalic infarction. J Clin Neuro-ophthalmol 5,224-228, 1985.
14. Rodewald L, **Miller DC**, Sciorra L, Barabas G, Lee M-L. Central nervous system neoplasm in a young man with Martin-Bell Syndrome. Am J Med Genetics 26,7-12,1987.
15. Kostron H, Swartz MR, **Miller DC**, Martuza RL. The interaction of hematoporphyrin derivative, light, and ionizing radiation in a rat glioma model. Cancer 57, 964-970, 1986.
16. Van Dyke TA, Finlay C, **Miller DC**, Marks J, Lozano G, Levine AJ. The relationship between Simian Virus 40 Large Tumor Antigen expression and tumor formation in transgenic mice. J Virology, 61, 2029-2032, 1987.
17. DeWitt LD, Kistler JP, **Miller DC**, Richardson EP jr, Buonanno FS. NMR-Neuropathologic correlation in stroke. Stroke 18, 342-351, 1987.
18. Marks J, Lin J, **Miller DC**, Lozano G, Herbert J, Levine AJ. The expression of viral and cellular genes in papillomas of the choroid plexus induced in transgenic mice. Cellular Factors in Development and Differentiation: Embryos, Teratocarcinomas, and Differentiated Tissues. Alan R. Liss, Inc, New York, pp. 163-186, 1988.
19. Hochberg FH, **Miller DC**. Primary central nervous system lymphoma. J Neurosurg, 68, 835-853, 1988.
20. Boyd CD, Kniep AC, Pierce RA, Deak SB, Karboski C, **Miller DC**, Parker MI, Mackenzie JW, Rosenbloom J, and Scott GE. Increased elastin mRNA levels associated with surgically induced-intimal injury. Connect Tissue Res, 18, 65-78, 1988.
21. VanDyke TA, Finlay C, **Miller DC**, Marks J, Lozano G, Levine AJ. Relationship between tumor formation and SV 40 T-antigen expression in transgenic mice containing the SV 40 early region genes. Current Communications in Molecular Biology (JH Miller & MP Carlos, eds.), Cold Spring Harbor Laboratory, New York, pp 115-118, 1987.
22. Golbe LI, **Miller DC**, Duvoisin R. Autosomal dominant Lewy-body Parkinson's Disease. Adv Neurol, #53: Parkinson's Disease: Anatomy, Pathology, and Therapy, Raven Press, New York, pp 287-292, 1990.
23. Golbe LI, **Miller DC**, Duvoisin R. Paraneoplastic degeneration of the substantia nigra with dystonia and Parkinsonism. Movement Disorders, 4, 147-152, 1989.
24. **Miller DC**, Knee R, Schonfeld S, Wasserstrom WR, Karp G. Non-Hodgkin's lymphoma of the central nervous system after treatment of Hodgkin's Disease. Am J Clin Pathol, 91, 481-485, 1989.
25. **Miller DC**. Neuropatologia de la enfermedad de Alzheimer. Monografias Medicinas Jano 3, 48-72, 1989.
26. Marks JR, Lin J, Hinds P, **Miller D**, Levine AJ. Cellular gene expression in papillomas of the choroid plexus from transgenic mice that express the Simian Virus 40 large T antigen. J Virology 63, 790- 797, 1989.
27. George AE, de Leon MJ, Stylopoulos LA, Miller J, Kluger A, Smith G, **Miller DC**. Temporal lobe CT diagnostic features of Alzheimer's Disease: Dilatation of the choroidal/hippocampal fissure complex. Am J Neuroradiol, 11, 101-107, 1990.

28. **Miller DC**, Koslow MK, Budzilovich GN, Burstein DE. Synaptophysin: A sensitive and specific marker for ganglion cells in central nervous system neoplasms. Hum Pathol, 21,271-276, 1990.
29. Golbe LI, Di Iorio G, Bonavita V, **Miller DC**, Duvoisin RC. A large kindred with autosomal dominant Parkinson's Disease. Ann Neurol 27, 276-282, 1990.
30. Sage JI, **Miller DC**, Golbe LI, Walters A, Duvoisin RC. Clinically atypical expression of pathologically typical Lewy-body Parkinsonism. Clin Neuropharmacol 13, 36-47, 1990.
31. Chokroverty S, Nicklas W, **Miller DC**, Goldberg J, Choe J, Banner C, Thomas J, Duvoisin R. Multiple system degeneration with glutamate dehydrogenase deficiency: pathology and biochemistry. J Neurol Neurosurg Psychiat, 53, 1099-1101, 1990.
32. Allen JC, **Miller DC**, Budzilovich GN, Epstein FJ. Brain and spinal cord intraparenchymal hemorrhage in long term survivors of malignant pediatric brain tumors--A possible late effect of therapy. Neurology (Cleveland) 41, 148-150, 1991.
33. **Miller DC**. Histopathologic evaluation of pituitary tumors: help for the clinician. Diagnosis and Management of Pituitary Adenomas (PR Cooper, ed.), American Association of Neurological Surgeons, Park Ridge, IL, pp. 37-45, 1991.
34. Zagzag D, **Miller DC**, Sato Y, Rifkin DB, Burstein DE. Immunohistochemical localization of basic Fibroblast Growth Factor in astrocytomas. Cancer Res, 50, 7393-7398, 1990.
35. deLeon MJ, George AE, Stylopoulos LA, **Miller DC**, Smith G. In vivo studies of hippocampal atrophy in Alzheimer's disease. Alzheimer's Disease. Epidemiology, Neuropathology, Neurochemistry, and Clinics (K Maurer, P Riederer, H Beckmann, eds.), Springer Verlag Wien and New York, pp 523-529, 1990.
36. Vazquez M, **Miller DC**, Epstein F, Allen JC, Budzilovich GN. Glioneurofibroma: Renaming the pediatric "gliofibroma". Modern Pathol 4, 519-523, 1991.
37. Haltia M, Ghiso J, Wisniewski T, Kiuru S, **Miller DC**, Frangione B. Gelsolin variant and B-amyloid co-occur in a case of Alzheimer's with Lewy bodies. Neurobiol Aging, 12, 313-316, 1991.
38. Zagzag D, **Miller DC**, Cangiarella J, Allen JC, Greco MA. Brainstem glioma following radiotherapy for acute myeloblastic leukemia in a child with Down's syndrome. Cancer, 70, 1188-1193, 1992.
39. McCormack BM, **Miller DC**, Budzilovich GN, Voorhees GJ, Ransohoff J. Treatment and survival of low grade astrocytoma in adults: 1977-1988. Neurosurgery, 31, 636-642, 1992.
40. **Miller DC**. Newer aspects of the neuropathology of central nervous system neoplasms. Annals of Psychiatry/Anuario Psiquiátrico 3, 361-377, 1992.
41. Zagzag D, **Miller DC**, Kleinman GM, Abati A, Donnenfeld H, Budzilovich GN. Demyelinating disease *versus* tumor in surgical neuropathology. Clues to a correct pathological diagnosis. Am J Surg Pathol, 17, 537-545, 1993.



42. Narkiewicz O, de Leon MJ, Convit A, George AE, Weigel J, Morys J, Bobinski M, Golomb J, **Miller DC**, Wisniewski HM. Dilatation of the lateral part of the transverse fissure of the brain in Alzheimer's disease. Acta Neurobiol Exp 53, 457-465, 1993.
43. **Miller DC**, Najjar S, Budzilovich GN. Neuropathology of AIDS in surgical biopsies. Neurosurg Clin North Am 5, 57-70, 1994.
44. Glass J, Hochberg FH, **Miller DC**. Intravascular lymphomatosis: A systemic disease with neurological manifestations. Cancer 71, 3156-3164, 1993.
45. Kleinman GM, Zagzag D, **Miller DC**. Diagnostic use of immunohistochemistry in neuropathology. Neurosurg Clin North Am 5, 97-126, 1994.
46. Newcomb EW, Madonia WJ, Pisharody S, Lang FF, Koslow M, **Miller DC**. A correlative study of p53 protein alteration and p53 gene mutation in glioblastoma multiforme. Brain Pathol, 3, 229-235, 1993.
47. **Miller DC**, Lang FF, Epstein FJ. Central nervous system gangliogliomas, I: Pathology. J Neurosurg, 79, 859-866, 1993.
48. Lang FF, Epstein FJ, Ransohoff J, Allen JC, Wisoff J, Abbott R, **Miller DC**. Central nervous system gangliogliomas, II: Clinical Outcome. J Neurosurg, 79, 867-873, 1993.
49. **Miller DC**. The pathology of gliomas, including tumors of neuronal origin. Chapter 43 in The Practice of Neurosurgery, Tindall GT, Cooper PR, Barrow DL, eds. Baltimore, Williams & Wilkins, Volume I, pp. 601-635, 1996.
50. **Miller DC**. Predicting recurrence of intracranial meningiomas: A multivariate clinicopathologic model. An interim report of the New York University Medical Center Meningioma Project. Neurosurg Clin North Am 5, 193-200, 1994.
51. Lang FF, **Miller DC**, Pisharody S, Koslow M, Newcomb EW. High frequency of p53 protein accumulation without p53 gene mutation in human juvenile pilocytic, low grade and anaplastic astrocytomas. Oncogene, 9, 949-954, 1994.
52. Lang FF, **Miller DC**, Koslow M, Newcomb EW. Pathways leading to glioblastoma multiforme: a molecular analysis of genetic alterations in 65 astrocytic tumors representing WHO grades I-IV. J Neurosurg 81, 427-436, 1994.
53. **Miller DC**. Pathology of craniopharyngiomas: clinical import of pathologic findings. Pediatr Neurosurg 21 Suppl 1, 11-17, 1994.
54. Kleinman GM, **Miller DC**. Pseudotumors of the central nervous system. in Pathology of Pseudoneoplastic Lesions, Wick MR, Humphrey P, Ritter J (eds), New York, Lippincott-Raven, pp. 25-68, 1997.
55. Robertson PL, Allen JC, Abbott IR, **Miller DC**, Fidel J, Epstein FE. Cervicomedullary tumors in children: A distinct subset of brainstem gliomas. Neurology, 44, 1798-1803, 1994.
56. **Miller DC**, Hochberg FH, Harris NL, Gruber ML, Louis DN, Cohen H. Pathology with clinical correlations of primary CNS lymphoma: The Massachusetts General Hospital experience 1958-1989. Cancer 74, 1383-1397, 1994.
57. Weiner HL, Rosenberg ME, Wisoff JH, Kupersmith MJ, Cohen H, Zagzag D, Shiminski-Maher T, Flamm ES, Epstein FJ, **Miller DC**. Craniopharyngiomas: A clinico-pathological analysis of factors predictive of recurrence and functional outcome. Neurosurgery, 35, 1001-1011, 1994.

58. Squires LA, Constantini S, Allen JC, **Miller DC**, Wisoff J, Epstein F. Hypothalamic hamartoma and the Pallister-Hall Syndrome. Pediatr Neurosurg 22, 303-308, 1995.
59. Bobinski M, Wegiel J, Wisniewski HM, Tarnawski M, Reisberg B, Mlodzik B, de Leon MJ, **Miller DC**. Atrophy of hippocampal formation subdivisions correlates with stage and duration of Alzheimer Disease. Dementia 6, 205-210, 1995.
60. Zagzag D, Friedlander DR, **Miller DC**, Dosik J, Cangiarella J, Kostianovsky M, Cohen H, Grumet M, Greco MA. Tenascin expression in astrocytomas correlates with angiogenesis. Cancer Res 55, 907-914, 1995.
61. de Leon MJ, Convit A, DeSanti S, Golomb J, Tarshish C, Rusinek H, Bobinski M, Ince C, **Miller DC**, Wisniewski HM, George AJ. The hippocampus in aging and Alzheimer's Disease. Neuroimaging Clin North Am 5, 1-18, 1995.
62. Lang FF, **Miller DC**. Astroglial variants. In Cancer of the Nervous System, PM Black and JS Loeffler, eds. Cambridge (Mass.), Blackwell Scientific, pp. 516-548, 1997.
63. Mark MH, Sage JI, Walters AS, Duvoisin RC, **Miller DC**. Binswanger's Disease presenting as Levodopa-responsive parkinsonism: Clinicopathologic study of three cases. Movement Disorders 10, 450-454, 1995.
64. Bobinski M, Wegiel J, Wisniewski HM, Tarnawski M, Reisberg B, de Leon MJ, **Miller DC**. Neurofibrillary pathology--the leading cause of hippocampal formation atrophy in Alzheimer Disease. Neurobiol Aging 17, 909-919, 1996.
65. **Miller DC**. Post-polio syndrome spinal cord pathology. Case report with immunopathology. Ann NY Acad Sci 753, 186-193, 1995.
66. de Leon MJ, Convit A, George AE, Golomb J, De Santi S, Tarshish C, Rusinek H, Bobinski M, Ince C, **Miller D**, Wisniewski H. In vivo structural studies of the hippocampus in normal aging and in incipient Alzheimer's Disease. Ann NY Acad Sci 777, 1-13, 1996.
67. Awaad Y, Allen JC, **Miller DC**, Schneider SJ, Wisoff J, Epstein FJ. Deferring adjuvant therapy for totally resected ependymoma. Pediatr Neurol 14, 216-219, 1996.
68. Woo HH, Rezai AR, Knopp EA, Weiner HL, **Miller DC**, Kelly PJ. Contrast enhancing progressive multifocal leukoencephalopathy: Radiologic and pathologic correlations. Neurosurgery 39,1031-1035, 1996.
69. Weiner HL, Rothman M, **Miller DC**, Ziff EB. Pediatric brain tumors express multiple receptor tyrosine kinases including novel cell adhesion kinases. Pediatr Neurosurg 25, 64-72, 1996.
70. Constantini S, Houten J, **Miller DC**, Freed D, Ozek MM, Rorke LB, Allen JC, Epstein FJ. Intramedullary spinal cord tumors in children under the age of three years. J Neurosurg 85,1036-1043, 1996.
71. Rao LS, **Miller DC**, Newcomb EW.p16 gene inactivation in astrocytomas: Correlation between p16 gene deletion and p16 immunohistochemistry. Diagnostic Molec Pathol 6, 115-122, 1997.
72. Bobinski M, Wegiel J, Tarnawski M, Bobinski M, Reisberg B, de Leon MJ, **Miller DC**, Wisniewski HM. Relationships between regional neuronal loss and neurofibrillary changes in the hippocampal formation and duration and severity of Alzheimer Disease. J Neuropathol Exp Neurol 56, 414-420, 1997.

73. Packer RJ, **Miller DC**, Shaffrey M, Vezina G. Intracranial Neoplasms. In: Comprehensive Neurology, 2nd Edition, Rosenberg RN & Pleasure DE, eds. New York, Wiley-Liss, pp 187-243, 1998.
74. Setty SN, **Miller DC**, Camras L, Charbal F, Schmidt ML. Desmoplastic infantile astrocytoma with metastases at presentation. Mod Pathol 10, 945-951, 1997.
75. Newcomb EW, Bhalla SK, Parrish CL, Hayes RL, Cohen H, **Miller DC**. *bcl-2* protein expression in astrocytomas in relation to patient survival and p53 gene status. Acta Neuropathol (Berl) 94, 369-375, 1997.
76. de Leon MJ, George AE, Golomb J, Tarshish C, Convit A, Kluger A, De Santi S, McRae T, Ferris SH, Reisberg B, Ince C, Rusinek H, Bobinski M, Quinn B, **Miller DC**, Wisniewski HM. Frequency of hippocampal formation atrophy in normal aging and Alzheimer's Disease. Neurobiol Aging 18, 1-11, 1997.
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#### D) Case Records of the Massachusetts General Hospital

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#### E) Patents

1. US Patent # 7,714,276: Methods for direct biomolecule identification by matrix-assisted laser desorption ionization (MALDI) mass spectrometry.

Inventors: Pevsner Paul; Naftolin, Frederick; **Miller Douglas C**; Hillman, Dean; Stall, Brian K; Wishnie, Steven M.

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