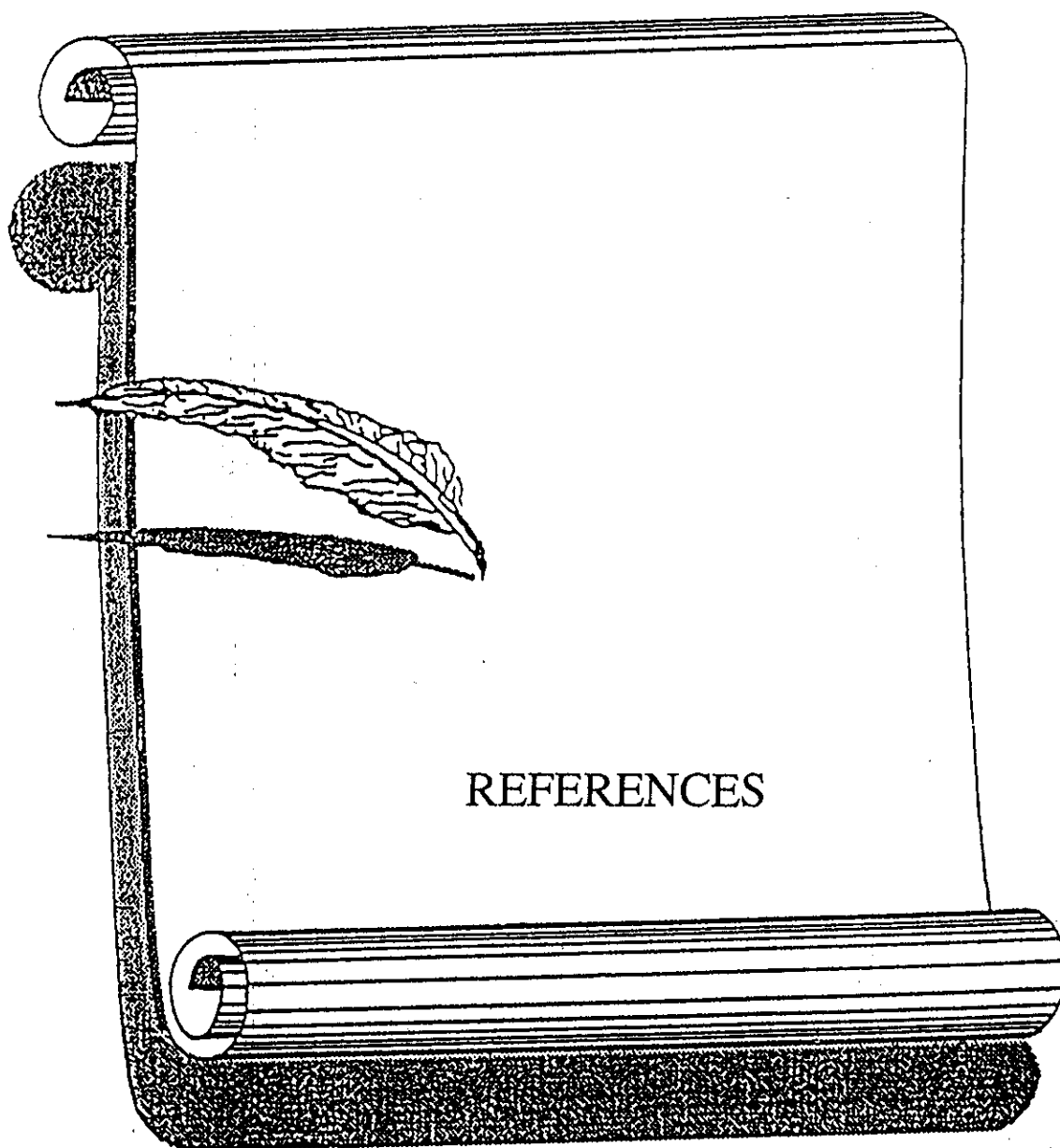




Akslen LA , Mork SJ , Larsen JL , and Myrseth E. Giant cell glioblastoma : a work-up of 2 cases with long survival
Acta Neurol , Scand 79 : 194 - 199 , 1988 .

Alberts B , Bray D , Lewis J , Raff M , and Watson JD .
Molecular biology of the cell . 2 nd ed. New york Garland publishing Inc 424 - 426 , 1983 .

Alberts B , Bray D , Lewis J , Raff M , and Watson JD .
Molecular biology of the cell . 2 nd ed. New york Garland publishing Inc 215 - 219 , 1989 .

Apuzzo MLJ , and Mitchell MS :Immunological aspects of intrinsic glial tumors . J Neurosurg 55 : 1-18 , 1981 .

Araga S , Kagimoto H , Funamoto K , and Takahashi K .
Reduced natural killer cell activity in patients with dementia of the alzheimer type .Acta Neurol Scand 84: 259 - 263 , 1991

Ariza A , Fernandez LA , Inagami T , KIM JH and Manuelidis EE. Renin in glioblastoma multiforme and its role in neovascularization .Am J Clin pathol 90: 437 - 441 , 1988.

Armitage P and Berry G : Statistical methods in medical research . Oxford Black well Scientific Publications.1987 .

Baak JPA. Quantitative pathology today - A technical view .path Res pract . 182 : 390 - 400 , 1987 .

Baba H , korenaga D , Okamura T , Saito A , and watanabe A . prognostic significance of DNA content with special reference to age in gastric cancer . Cancer 63 : 1768 - 1772 , 1989 .

Bailey P, and Cushing H .A classification of the tumors of the glioma group on a Histogenetic Basis with a correlated study of prognosis : Philadelphia : J.B. Lippincott, 87 - 89 , 1926 . Quated from Burger PC : Pathologic anatomy and CT correlation in the glioblastoma multiforme . Appl Neurophysiol 46 : 180 - 187 , 1983

Baildam AD , Zaloudik T , Howell A , Barnes DM , Turnbull L and Moore M . DNA analsis by flow cytometry , response to endocrine treatment and prognosis in advanced car cinoma of the breast. Br J cancer 55 : 553 - 559 , 1987

Baisch H , and Gerdes J . Simultaneous Staining of exponentially growing versus plateau phase cells with the proliferation associated antibody Ki 67 and propidium iodide : analysis by flow cytometry . cell Tissue kinet 20 : 387 - 391 , 1987

Banerjee AK , Bhawani F , and Sharma S , Gliosarcoma with cartilage formation . Cancer 63 : 518 - 523 , 1989 .

Banner BF , Vega JETL ,and Roseman DL , Should flow cytophotometric DNA analysis precede definitive surgery for colon carcinoma ? Ann Surg 202 : 740 - 744 , 1985 .

Baserga R . The cell cycle . New England Journal of Medicine 304 : 453 - 459 , 1981

Becker LE , and Hinton D . Primitive neuroectodermal tumors of the central nervous system . Human pathol 14 : 538 - 550 , 1983

Becker LE , and Halliday WC. Central nervous system tumors of childhood . perspect pediater pathol 10 : 86 - 134 , 1987 .

Berkman RA , Clark WC , Saxena A , Robertson JT , Oldfiel EH and Ali IU. Clonal composition of glioblastoma multiforme . J Neurosurg 77 : 432 - 437 , 1992 .

Bhan IK , and Des Marais CL . Immunohistologic characterization of major histocompatibility antigens and inflammatory cellular infiltrate in human breast cancer . JNCI 71 : 507 - 516 , 1983 .

Bhondeley MK , Mehra RD , and Mehra NK . Imbalances in T cell subpopulations in human gliomas . J Neurosurg 68 : 589 - 593 , 1988 .

Black KL , chen K , and Becker DP . Inflammatory leukocytes associated with increased immunosuppression by glioblastoma . J Neurosurg 77 : 120 - 126 , 1992 .

Bleiberg H , Buyse M , MBA , and Galand P. Cell kinetic indicators of premalignant stages of colorectal cancer . Cancer 56 : 124 - 129 , 1985

Bosing T , Roessner A , Hiddemann W , . Mellin W and Grundmann E. Cytostatic effects in osteosarcomas as detected by flow cytometric DNA analysis after preoperative chemotherapy according to the coss 80 / 82 protocol .J cancer Res clin oncol 113 : 369 - 375,1987 .

Bouzubar N ,Walker KJ , and Griffiths K . Ki-67 immunostaining in primary breast cancer . Pathological and clinical association . British J. Of Cancer 59: 943 -947 ,1989 .

Braun N , papadopoulos T , and Muller - Hermelink HK. cell cycle dependent distribution of the proliferation - associated Ki 67 antigen in human embryonic lung cells .virchows Archir [cell pathol] 56 : 25 - 33 , 1988

Bravo R , and Cleis JE . Human proteins sensitive to neoplastic transformation in cultured epithelial and fibroblast cells . Clin chem 28 : 949 - 954 , 1982 .

Brooks . WH , Markesbery WR , and Gupta GD. Relationship of lymphocyte invasion and survival of brain tumor patients . Ann Neurol , 4 : 219 - 224 , 1978 .

Brown DC , Cole D , and Gatter KC. Carcinoma of the cervix uteri : on assessment of tumor proliferation using the monoclonal antibody Ki 67 . Br J cancer 57 : 178 - 181 , 1988 .

Brown CD , and Gatter KC . Monoclonal antibody Ki 67 : its use in histopathology . Histopathol 17 : 489 - 503 , 1990 .

Brunet JF , Dosseto M , Denizat F , Matte MG , and Goldstein P. The inducible cytotoxic T. lymphocyte associated gene transcript CTLA . 1 sequence and gene localization to mouse chromosome 14 . Nature 322 : 268 , 1986 .

Burger PC , and volmer RT . Histologic factors of prognostic significance in the glioblastoma mulliforme . Cancer 46 : 1176 - 1186 , 1980 .

Burger PC , and vogel FS . Surgical pathology of The Nervous System and Its coverings .New York : John wiley and sons . 1982 .

Burger PC . pathologic anatomy and Ct correlations in the glioblastoma multiforme . Appli Neurophysiol 46 : 180 - 187 , 1983 .

Burger PC , Du Bois PJ , and Schold Sc Jr . Computerized tomographic and pathologic studies of the untreated , quiescent , and recurrent glioblastoma multiforme . J Neurourg 58 : 159 - 169 , 1983 .

Burger Pc , vogel Fs , Green SB , and strike TA . Glioblastoma multiforme and anaplastie astrocytoma : pathologic criteria and prognostic implications . Cancer 56 : 1106 - 1111 , 1985 .

Burger pc . Malignant astrocytic neoplasms : Classification , Pathologic anatomy , and Respanse to Treatment . Seminars in Oncology , 13 : 16 - 26 , 1986 .

Burger PC ,Shilata ,T and Kleihues P . The use of monoclonal antibody Ki-67 in the identification of proliferating cells . application to surgical neuropathology . Am.J.Surg Pathol 10: 611-617 ,1986

Burger pc and Green SB. Patient age , histologic features , and length of survival in patients with glioblastoma multiforme . Cancer 59 : 1617 - 1625 , 1987 .

Burger pc , Rewlings CE , Cox EB , Mclendon RE and Bullard DE . Clinicopathologic Correlations in the oligodendroglioma . Cancer 59 : 1345 - 1352 , 1987 .

Busch H . Nucleolar proteins : purification , isolation and function analysis . In : Huilica LS , ed . Chromosomal non histone proteins . Volume IV Boca Raton , Florida : CRC press 233 - 286 , 1984 .

Byar DP , Green SB and Strike TA . Prognostic factors for malignant glioma . In Walker D ed . Oncology of the nervous system . Boston ; 379 -395 .1983 .

Calvo CF , Bernard A , Huet S , Leroy E , and Senik A . Regulation of Immunoglobulin Synthesis by Human T Cell Subsets as defined by anti - D 44 monocloal antibody within the CD 4⁺ and CD 8⁺ Subpopulations . J Immunol 136 : 1144 - 1149 , 1986 .

Carpen O , Virtan I , Lehto VP , and Saksela E . Polarization of Nk cell cytoskeleton upon conjugation with sensitive target cells . J Immunol 131 : 2695 - 2698 , 1983 .

CHAN WC , Gulu B , Masih A , Nicholson J , and Vogler WR .
Large granular lymphocyte proliferation with the natural
killer cell phenotype . Am J Clin Pathol 97: 353 - 358 ,
1991 .

Chason JH . Nervous System In Anderson ,s Pathology II Chapter
44 (ed) by Klssane JM . 8th (ed) , The C.V. MosBy
Company St. louis . Toronto . princeton, 1915 - 1943 ,
1985.

Cleis JE, Fey SJ , Larsen PM , and Cleis A . Expression of the
transformation - sensitive protein " cyclin" in normal
human epidermal basal cells and simian virus 40 -
transformed keratinocytes . Proc Natl Acad Sci USA
81:3128-3132 , 1984

Clement LT,Yamashita N and Martin AM. The functionally
distinct subpopulations of human CD4⁺ Helper / Inducer T
lymphocytes defined by anti-CD45R antibodies derive
sequentially from a differentiation pathway that is
regulated by activation - dependent post - thymic
differentiation . J.Immunol 141 : 1464 - 1470 , 1988

Cohaden F. Aouad N and Rougier A. Histological and non
histologic factors correlated with survival time in
supratentorial astrocytic tumors . J Neuro OnCol 3: 105-
111 , 1985

Cohen MB , Waldman FM, Carroll PR, Kerschmann R, Chew K and Mayall BH. Comparison of five histopathologic - methods to assess cellular proliferation in transitional cell carcinoma of the urinary bladder . Hum Pathol. 24:772 - 778 , 1993

Coon JS , Landay AL and Weinstein RS. Biology of disease Advances in flow cytometry for diagnostic pathology . Lab Invest 57 :453 - 479 , 1987.

Copper SM , Hirsen DJ and Friou GJ. Spontaneous cell - mediated cytotoxicity against change cells by nonadherent , non thymus derived , FC receptor- bearing lymphocytes. Cell Immunol 32 : 135 - 145 , 1977

Cruz - Sanchaz FF, Rossi ML , Hughes JT, Coakham HB and Eynaud P. Choroid Plexus papillomas . An immunohistological study of 16 cases . Histopathology 15 : 61-69,1989.

Cruz - Sanchaz FF, Rossi ML , Buller JR, Carboni PJr and Fineron PW. Oligodendrogliomas : a clinical, histological, immunocytochemical and lectin - binding study . Histopathology 19 : 361 - 367 , 1991

Damle NK, Mohaghehpour N, Kansas GS, Fisweld DM and Engelman EG. Immunoregulatory T cell circuits in man . Identification of a distinct subpopulation of the helper/inducer lineage that amplifies the development of alloantigen - specific suppressor T cells . J Immunol 134 : 235 - 243 , 1985 .

Damle NK, Childs AL and Doyle LV. Immunoregulatory T lymphocytes in man : soluble antigen - specific suppressor - inducer T lymphocytes are derived from the $CD4^{+} CD45R^{-} P80^{+}$ subpopulation . J Immunol 139: 1501 - 1508 , 1987.

Davis C and Symon L Posterior fossa ependymomas in adults . Acta Neurochir 82 : 115 - 117 , 1986 .

Dean JH , Silva JS and McCoy JL, Functional activities of rosette separated human peripheral blood leukocytes. J Immunol 115 : 1449 - 1455 , 1975.

Del Bino G, Silvestrini R and Costa A , Morphological and clinical significance of cell kinetics in non - Hodgkin' s lymphomas . Basic appl. Histochem. 30 : 197 - 202, 1986.

DeRobertis EDP , Nowinski WW and Saez FA. Cellular basis of Cytogenetics. Cell Biology, fifth ed . W.B. Saunders Company philadelphia . London Tronto. 296 - 300 , 1980.

Dohrmann GJ : Ependymomas, in Wilkins RH and Rengachary SS (eds) : Neurosurgery . Newyork : McGraw - Hill, 1 : 767 - 771 , 1985

Dominick DE LuCA IA . Positive non lymphoid cells and T cell development in murine fetal thymus organ cultures : Monoclonal anti - IA antibodies inhibit the development of T - cells. J Immunol 136 : 430 - 439 , 1986.

Donhujsen K . Mitosis Counts : reproducibility and significance in grading of malignancy. Hum pathol 17 : 122- 125 , 1986

Dressler LG and Bartow SA . DNA flow cytometry in solid tumors : practical aspects and clinical applications . Sem Diag pathol 6 : 55-82 ,1989.

Duffner PK and Cohen ME .Treatment of brain tumors in babies and very young children . Pediatr Neurosci 12 : 304 - 310 . 1985/86 .

Emery AEH . Recombinant DNA technology . Lancet 2 : 1406 - 1409 , 1981.

Evans T , Rosenthal ET , Young blom J , Distel D and Hunt T. cyclin : A protein specified by maternal m RNA in sea urchin eggs that is destroyed at each cleavage division Cell 33 : 389 - 396 , 1983.

Ewers SB , Lang storm E and Baldetorp B . Flow cytometric DNA analysis in primary breast carcinomas and clinico pathological correlations cytometry 5 : 408 - 419 , 1984 .

Farmer JP , Antel JP , Freedman M , Cashman NR and Rodf H . Characterization of lymphoid cells isolated from human gliomas. J Neurosurg 71 : 528 - 533 , 1989 .

Fernandez LA, Twickler J and Mead A . Neovascularization produced by angiotensin II J Lab Clin Med 105 : 141 - 145 , 1985 .

Fernandez LA, Oisen TG , Barwick Kw , Sanders M and Inagami T . Renin in angiolymphoid hyperplasia with eosinophilia : its possible effect on vascular proliferation . Arch Pathol. Lab Med 110 : 1131 - 1135 , 1986 .

Fischer DK, Chen TL and Narayan RK . Immunological and biochemical strategies for the identification of brain tumor - associated antigens, J Neurosurg. 68 : 165 - 180 , 1988 .

Flickinger CJ , Brown JC and Kutchai HC . The cell cycle, in Medical Cell Biology . (with a contiribution by Peach MJ . W.B. Saunders Company . philadelphia . London . Toronto : 113 - 116 , 1979 .

Fokes EC. Jr and Earle KM. Ependymomas : clinical and pathological aspects . J Neurosurg 30 : 585 - 594 , 1969 .

Fowler M and Simpson DA . A malignant melanin forming tumor of the Cerebellum . J path. Bact. 84 : 307 - 311, 1962. Quated from Rubinstein LJ : Tumors of the central nervous system in :Atlas of tumor pathology series 2, Fascicle 6, Washington , DC : Armed forces Institute of pathology , 130 -143 ,1985 (d) .

Frankfurt OS, Chin JL and Englander LS . Relationship between DNA ploidy, glandular differentiation and tumor spread in human prostate cancer .Cancer Res 45 : 1418 - 1423 , 1985 .

Franklin WA , Bibbo M and Doria MI .Quantitation of estrogen receptor and Ki 67 staining in breast carcinoma by the micro . TICAS Image analysis system . Analyt. Quant. Cytol. Histol. 9: 279 - 286 , 1987.

Friedlander ML , Hedley DW and Taylor IW . Infleunce of cellular DNA content on survival in advanced ovarian cancer . Cancer Res . 44 : 397 - 400 , 1984.

Frierson HF : The need for improvement in flowcytometric analysis of ploidy and S-phase fraction . Am.J. clin Pathol 95 :439 -444,1991.

Ganong WF . The brain renin - angiotensin system . Ann Rev physiol 46 : 17 - 31 , 1984 .

Gansler T , Chatten J and Varello M . Flow cytometric DNA analysis of neuroblastoma . Correlation with histology and clinical outcome . Cancer 58: 2453 -2458 ,1986 .

Gately MK <Glaser M, and Mc Carron RM . Mechanisms by which human gliomas may escape cellular immune attack . Acta Neurochir 64: 175 -197 ,1982 .

Gatter KC , Dunnill MA and Gerdes J . New approach to assessing lung tumors in man . J Clin pathol. 39 : 590 - 593 , 1986 .

Gerdes J , Schwab U , Lemke H and Stein H . Production of a mouse monoclonal antibody reactive with a human nuclear antigen associated with cell proliferation . INJC J 31 : 13 - 20 , 1983

Gerdes J ,Lemke H, Baisch H, Wacker HH ,Schwab U and Stein H. Cell cycle analysis of a cell proliferation associated human nuclear antigen defined by the monoclonal antibody Ki67.J Immunol 133 : 1710 - 1715 , 1984 (a) .

Gerdes J, Dallenbach F and Lennert K .Growth fraction in malignant non - Hodgkin's lymphomas (NHL) as determined in situ with the monoclonal antibody Ki67. Hematol oncol 2: 365 - 371 , 1984 (b) .

Gerdes J, Van Baarlen J and Pileri S .Tumor cell growth fraction in Hodgkin's disease .Am J Pathol. 129 : 390 - 393 , 1987 .

Germano IM, Ito M , Cho KG , Hoshino T and Wilson CB.
Correlation of histopathological features and proliferative potential of gliomas . J Neurosurg 70 : 701 - 706 , 1989 .

Geyer SJ and Landay A . Immunogenetic and immunologic aspects of gliosarcoma growth in rats Lab. Invest . 49 : 436 - 444 , 1983 .

Giangaspero F , and Burger PC . Correlation between cytologic composition and biologic behavior in the glioblastoma multiforme . A postmortem study of 50 cases . Cancer 52 : 2320 - 2333 , 1983 .

Giangaspero F , Doglioni C , Rivano MT , Pileri S, Gerdes J and stein H. Growth fraction in human brain tumors defined by the monoclonal antibody Ki67 Acta Neuropathol. 74 : 179 - 182 , 1987.

Gilles FH , Leviton A and Hedley - White Et Childhood brain tumor update. Hum pathol 14 : 834 - 845 , 1987.

Gratzner HG. Monoclonal antibody to 5 - bromo and 5 - iododeoxy - uridine , a new reagent for detection of DNA replication. Science 218 : 474 - 475 , 1982 .

- Grogioni WF, D' Errico A , Bacci f Mazziotti A , Gozzetti G and Mancini AM .** Primary liver neoplasms : evaluation of proliferative index using MoAb Ki67. J pathol 158 : 23 - 29 , 1989 .
- Grossi CE , Zicca A , Cadoni A , Mingari MC and Moretta L .** Ultrastructural characteristics of human T cell clones with various cytolytic activities Eur J Immunol 13 : 670 , 1983
- Guillaud P , Du Manoir S and Seign eurin D .** Quantification and topographical description of Ki67. antibody labeling during the cell cycle of normal fibroblastic (MRC-5) and mammary tumor cell lines (MCF7). Anal cell pathol 1: 25 - 39 , 1989 .
- Gulotta F.** Morphological and biological basis for the WHO classification 1979 , in Krayenbuhl H . (ed) : Advances and Technical Standards in Neurosurgery , vol 8 , Bertin : Springer - verlag , 123 - 165 , 1981.
- Gustafsson H , Tribukait B and Esposti PL .** The prognostic value of DNA analysis in primary carcinoma in situ of the urinary bladder . Scand J Urol Nephrol 16 : 141 - 145 , 1982 .
- Hall PA , Richard MA , Gregory WM , and Stansfeld AG .** The prognostic significance of Ki 67 immunostaining in non -Hodgkin's lymphomas J Pathol 154 : 223- 235.1988 .

Hall PA and Levison DA . Review : Assessment of cell proliferation in histological material . J Clin Pathol 43 : 184 - 192 , 1990 .

Hall PA , Levison DA and woods AI . Proliferating Cell nuclear antigen (PCNA) Immunolocalization in paraffin sections : an index of cell proliferation with evidence of deregulated expression in some neoplasms . J pathol 162 : 285 - 294 , 1990 .

Heath JP . Direct evidence for microfilament -mediate capping of surface receptors on crawling fibroblasts . Nature 302 : 532 . 1983 .

Heideman RL , Packer RJ , Albright LA , Freeman CR and Rorke LB . Tumors of the central nervous system . In : Pizzo PA , Poplack DG , eds . Principles and practice of pediatric oncology . Philadelphia: J.B. Lippincott , 505 - 553 , 1989 .

Heim S , and Mitelman F . Cancer Cytogenetics . Alan R Liss Inc , New York . 235 - 248 , 1987 .

Herberman RB , and Holden HT . Natural Killer cells as antitumor effector cells .J Natl Cancer Inst . 62 : 441 - 445 , 1979 .

Herberman RB , and Ortaldo JR . Natural Killer cells : Their role in defences against disease . Science , 214 : 24 - 30 , 1981 .

Herman CJ : Cytometric DNA analysis in the management of cancer . Clinical and laboratory considerations .Cancer 69:1553-1556 ,1992 .

Hideyuki S , Iakashi M and Takashi K . Detection of human glioma , associated by rat monoclonal antibody raised against syngenetic rat glioma cells . J Neurosurg 65 : 495 - 502 , 1986 .

Hitchcock ER , and Morris CS . Mononuclear cell infiltrating central portions of human astrocytomas . J Neurosurg 68 : 432 - 437 , 1988 .

Hoshino T . cellular aspects of human brain tumors (gliomas), in Feddoroff SA , Hertz L (eds) : Advances in cellular neurobiology , vol 2 . New york : Academic press . 167 - 204 , 1981 .

Hoshino T . A commentary on the biology and growth kinetics of low - grade and high - grade gliomas . J Neurosurg 61 : 895 - 900 , 1984 .

Hoshino T , kobayashi S , Townsend JJ and Wilson CB . A cell Kinetic Study on medulloblastomas . Cancer 55 : 1711-1713 , 1985 .

Hoshino T ,Prados M and Wilson CB . Prognostic implications of bromodeoxyuridine labeling of human gliomas . J. Neurosurg.71 :335 -341 . 1989 .

Humphreys RP . Posterior cranial fossa brain tumors in children ,
in youmans JR (ed) : Neurological surgery . Philadelphia :
WB Saunders , 5 : 2733 - 2725 , 1982 .

Ilgren EB , Stiller CA and Hughes JT . Ependymomas : a clinical
and pathological study . Part 1 - biological features . Clin
Neuropathol 3 : 113 - 121 , 1984 .

Inoue I , Yoshida J and Kato K . Various immunological
parameters studied in patients with malignant brain
tumor. Correlation between clinical stage and T cell subsets
. J Neurol med Chir 25 : 168 -176 .1985 .

Isabell EM , Germano M , Masami Ito , Kyunig G and Cho .
Correlation of histopathological features and proliferative
potential of gliomas . J Neurosurg 70 : 701 - 706 ,1989 .

Janeway CA . Natural Killer Cells , a primitive immune system.
Nature 341 : 108 , 1989 .

Joensuu HI and Klemi P . DNA aneuploidy in adenomas of
endocrine organs . Am J Pathol 132 : 145 - 151 ,1988 .

Jondal M and pross H . SURface Markers on human B and T
lymphocytes VI . Cytotoxicity against cell lines as a
functional marker for lymphocyte subpopulations .Int J
Cancer 15 : 596 - 605 , 1975 .

Kalland T . Physiology of Natural Killer Cells . In vivo regulation of progenitors by interleukin 3 . J Immunol 139 : 3671 - 3675 , 1987 .

Kansas G , Wood Gs , Fishwild DM , and Engleman EG . Functional characterization of human T lymphocyte subsets distinguished by monoclonal Anti Leu 8 . J Immunol 134 : 2995 - 3002 , 1985 .

Kaplan J and Callewaert Dm . Expression of human T-lymphocyte antigens by Natural Killer Cells. J Natl Cancer INST 60 : 961 - 964 , 1978 .

Kelley KA . Practical Considerations for Selection and use of optical filters in flow cytometry . Cytometry 9 : 277 - 280 , 1988 .

Kepes JJ , Rubinstein LJ and Chiang H . The role of astrocytes in the formation of cartilage in gliomas : An immunohistological study of four cases . Am J pathol 117 : 471 - 481 , 1984 .

Kernohan JW and Sayre GP . Tumors of the central nervous system , in Atlas of tumor pathology , Fascicle 35 . Washington , DC : Armed Forces Institute of pathology , 1952 .

Kiessling R , petranyi G and Klein G . Non .T. cell resistance against a mouse Moloney lymphoma . Int J Cancer 17 : 275 - 281 , 1976 .

Kikuyama S , Kubota T , Watanabe M , Ishibiki A and Abe O . Cell Kinetic study of human carcinomas using bromodeoxyuridine . Cell Tissue Kinet 20 : 1 - 6 , 1988.

Kimmel DW , Shapiro , JR , and Shapiro WR . In vitro drug-sensitivity testing in human gliomas , J Neurosurg 66 : 161 - 171 , 1987 .

Kishikawa M , Tsuda N and Fujii H . Glioblastoma with sarcomatous component associated with myxoid change . Acta Neuropath 70 : 44 - 52 , 1986 .

Klein J , Blood cells and their origin . In Immunology 2 (ed) Boston Blackwell Scientific Publications. Oxford London Edinburgh . 13 - 47 , 1989 .

Kokal W, Sheibani K, Terz J and Harada JR . Tumor DNA content in the prognosis of colorectal carcinoma . JAMA 255 : 3123 - 3127 , 1986 .

Korenaga D, Okamura T, Saito A, Baba H and Sugimachi K. DNA ploidy is closely linked to tumor invasion , lymph node metastasis and prognosis in clinical gastric cancer . Cancer 62 : 309 - 313, 1988 .

Kreicbergs A, Boquist L, Borssen B, and Larsson SE.
Prognostic factors in chondrosarcoma . A comparative study of cellular DNA content and clinicopathologic features . cancer 50 : 577- 579 , 1982 .

Krensky AM, Clayberger C , Reiss CS, Strominger JL and Burakoff SJ . Specificity of OKT 4+ cytotoxic T lymphocyte clones . J Immunol 129 : 2001 - 2006 , 1982 .

Kros JM , Troost D, Van Eden CG and Van der werf JM.
Oligodendroglioma . A comparison of two grading systems . Cancer 61 : 2251 - 2259 , 1988 .

Krouwer HGJ , Dacis RL , Silver P and Prados M .Gemistocytic astrocytomas : a reappraisal. J neurosurg 74 : 399 - 406 , 1991 .

Kubota Y , Petras RE , Easley KA ,Bauer TW , Tubbs RR and Fazio VW . Ki-67 Determined growth fraction versus standard staging and grading parameters in colorectal carcinoma . A multivariate analysis . Cancer 70 : 2602 -2609 ,1992 .

Kunwar S, Pai LH and Pastan I . Cytotoxicity and antitumor effects of growth factor- toxin Fusion Proteins on human glioblastoma multiforme cells . J Neurosurg 79: 569 - 576, 1993 .

Lalitha VS and Rubinstein LJ . Reactive gliosis in intracranial sarcoma : A form of mixed sarcoma and glioma (sarcoglioma) : Report of eight cases . Cancer 43 : 246 - 257 , 1979 .

Lampson LA , Wen P , Roman VA , Morris JH and Sarid JA . Disseminating tumor cells and their interactions with leukocytes visualized in the brain . Cancer Research 52 : 1018 - 1025 , 1992 .

Laws ER , Taylor WF and Clifton MB . Neurosurgical management of low- grade astrocytoma of the cerebral hemispheres . J Neurosurg 61 : 665 - 673 , 1984 .

Lloyd RV , Wilson BS , Vaarani J , Gaur PK and Molin S . Immunocytochemical characterization of a monoclonal antibody that recognizes mitosing cells . Am J pathol 121 : 274 - 283, 1985 .

Lokhorst HM , Boom SE and Terstra W . Determination of the growth fraction in monoclonal gammopathy with the monoclonal antibody KI 67. Br J Haematol 69 : 477 - 481 , 1988 .

Lotzova E , Savary CA and Herberman RB . Impaired NK cell profile in leukemia patients . In Lotzova E and Herberman RB (Eds) : Immunobiology of Natural Killer cells . Vol II . CRC press , Boca Raton , Florida 29 - 53 , 1986 .

Louis DN, Edgerton S , Thor AD and Hedley -Whyte ET.
Proliferating cell nuclear antigen and Ki 67
immunohistochemistry in brain tumors .a comparative
study . Acta Neuropathol 81:675 -679,1991 .

Macartney JC and Camplejohn RS . Flow cytometry of
histological material from dysplastic lesions of human
gastric mucosa . J pathol 150 : 113 - 118 , 1986 .

Male D , Champion B and Cooke A . Cytotoxic lymphocytes in
Advanced Immunology. 2(ed) J.B. Lippincott company
philadelphia . London . New York . ch 7 , 1 - 13 , 1987.

Mark SJ and Loken AC . Ependymoma : a follow up study of 101
cases , Cancer 40 : 907 - 911 , 1977 .

Mark SJ , Lindergaard FF, Halvorsen TB. Oligodendroglioma :
incidence and biological behaviour in a defined
population .J.Neurosurg. 63:881-889 ,1985.

Margetts YC and Kalyan - Raman UMA P . Giant celled
Glioblastoma of Brain . A clinico - pathological and
Radiological study of ten cases (Including
immunohistochemistry and ultrastructure) . Cancer 63 :
524 - 531 , 1989 .

Mathews MB , Bernstein RM , Fronza BR and Garrels JI .
Identity of the proliferating cell nuclear antigen and
cyclin . Nature 309 : 374 - 376 , 1984 .

McComb RD , Trevor RJ and Pizzo SV . Immunohistochemical detection of F VIII von Willebrand factor in hyperplastic endothelial cells in glioblastoma multiforme and mixed gliosarcoma . J Neuropathol Exp Neural 41 : 479 - 489 , 1982 .

McComb RD and Bigner DD . The biology of malignant glioblastomas . a comprehensive survey . Clin Neuropathol 3 : 93 - 106 , 1984 .

McElroy WD and Swanson CP . DNA - The molecule of life in modern cell Biology . Ch .18 Prentice-Hall, Inc., Englewood New Jersey : 272 - 277 , 1980 .

Mellin W . Cytophotometry in tumor pathology . A critical review of methods and applications , and some results of DNA analysis . Path Res Pract 186 : 37 - 62 , 1990 .

Mercuri S , Russo A and Palma L . Hemispheric supratentorial astrocytomas in children . Long term results in 29 cases . J Neurosurg 55 : 170 - 173 , 1981 .

Meuer SC , Schlossman SF and Reinherz EL . Clonal analysis of human cytotoxic T lymphocytes : T 4+ and T 8+ effector T cells recognize products of different major histocompatibility complex regions . Proc Natl Acad Sci USA , 79 : 4395 - 4398 , 1982 .

Meyer JS , Prey MU , Bebbcock DS and MC Divi HRW . Breast carcinoma cell kinetics , morphology , stage and host characteristics . A thymidine labeling study . Lab Invest 54 : 41 - 51 , 1986 .

Michael A , Hackett JJ , Bennett M , Kumar V and Yuan D . Regulation of B lymphocytes by Natural Killer cells Role of IFN- Y . J Immunol 142 : 1095 - 1101 , 1989 .

Miyasaka N. B. Darnell S. Baron and Talal N. Interleukin 2 enhances natural killing of normal lymphocytes. Cell immunol 84 : 154 - 158 , 1984 .

Montecucco C , Riccardi A , Traversi E, Danova M, Ucci G, Mazzini G, and Giorano P. Flow cytometric DNA content in myelodysplastic syndromes . Cytometry 4:238 - 243 .1983 .

Morantz EA , Feigin I and Ransohoff J . Clinical and pathological study of 24 Cases of gliosarcoma . J.Neurosurg. 45 :398 -408 ,1976 .

Morimoto C , Letvim NL, Boyd Aw, brown HM and Schlossman SF . The isolation and characterization of the human helper inducer T cell subset . J.Immunol 134:3762 -3769 , 1985 (a) .

Morimoto C , Letvin NL , Distaso JA, and Scholssman SF.
The isolation and characterization of the human suppressor inducer T cell subsets . J.Immunol . 143:1508-1515 , 1985 (b) .

Morstyn G Hsu SM , Kinsella T, Gratzner A , Russ,A and Mitchell JB . Bromodeoxyuridine in tumors and chromosomes detected with a monoclonal antibody . J.Clin. Invest. 72: 1844 -1850 , 1983 .

Nair MPN and Schwarts SA . Association of decreased T .cell mediated natural killer cytotoxicity and interferon production in Down's syndrome . Clin Immunol Immunopathol. 33:412 -424 , 1984 .

Naora H. Microspectrophotometry of cell nucleus stained by Feulgen reaction : Microspctrophotometric apparatus without Schwarzschild -villiger effect . Exp. Cell Res. 8: 259 -278 .1955 .

Natali PG, Gia Comini P , Bigotti A , Nicotra MR and Ferrone S . Hetrogeneity in the Experssion Of HLA and Tumor -associated antigens by surgically removed and cultured breast carcinoma cells . Cancer Research 42 :660 -668 .1983 .

Nazar GB ,Hoffman HJ ,Becker LE , Jenkin D , Humphreys RP and Hendrick B. Infratentorial ependymomas in childhood : Prognostic factors and treatment . J. Neurosurg . 72 :408 -417 , 1990 .

Nelson JS, Tsukada Y ,Schoenfeld D , Fulling k, Hamarche J, and Press N . necrosis as a prognostic criterion in malignant suprtentorial astrocytic gliomas . Cancer 52: 550-554 , 1983 .

Newton HB, Rosenblum MK and Walker Rw . Extraneural metastasis of infratentorial glioblastoma multiforme to the peritoneal cavity . Cancer 69 :2149 -2153 . 1992 .

Nishizaki T , Orita T, Furutani Y, Ikeyama Y, Aoki H, and Sasaki K . Flow - cytometric DNA analysis and immunohistochemical measurement of Ki - 67 and BUdR labeling indices in human brain tumors. J Neurosurg 70 : 379 - 384 , 1989 .

Ogmundsdottir HM , Thorsteinsson L , Sigfusson A Sveinsdottir S ,Bjornsson S ,and Jensson O . Natural killer cell function and malignant cell phenotype in hairy cell leukaemia , APMIS 100 : 10 -20 , 1992 .

Ortaldo JR, Herberman RB, Harvey C ,and Pestka S .
A species of human α -interferon that Lacks the ability to boost human natural killer activity . Proc.Natl Acad. USA. 81 :4929 . 1984 .

Packer JR , Sutton LN , Goldwein JW ,Perilongo G , Bunin G , Ryan J and Cohen B . Improved survival with the use of adjuvant chemotherapy in the treatment of medulloblastoma . J Neurosurg 74 : 433 - 440 , 1991 .

Palma L, Di Lorenzo N, and Guidetti B .Lymphocytic infiltration primary glioblastomas and recidivous gliomas . incidence , fate , and relevance to prognosis in 228 operated cases . J Neurosurg 49 : 854 - 861 , 1978 .

Patsouris E Stocker U , Kallmeyer V , Keiditsch E , Mehraein P ,and Stavrou . Relationship betwen Ki-67 positive cells ,growth rate and histological type of human intracranial tumors . Anti cancer Res. 8:537 -544 ,1988 .

Paulus W and Peiffer J . Intratumoral histologic heterogeneity of gliomas. Cancer 64 : 442 - 447 , 1989.

Persson IT , henninghausen L , Taub R , DeGrado W , and Leder . Antibodies to human C -myc oncogen -product : Evidence of an evolutionarily conserved protein induced during cell proliferation . Science 225:687 -693 ,1984 .

Petrovas as ,Subrichina GN ,Tschistijakowa OV , Rottenberg WR , and Weiss H . Flow Cytometry ,cytomorphology , histology and autoradiography in human gastric hyperplastic polyps and the surrounding mucosa . Oncology 39 : 308 - 313 ,1982 .

Ploton D , Menager M , Jeanneson P ,and Pigeon F . Improvement in the staining and in the visualization of the argyrophilic proteins of the nucleolar organiser region at the optical level . Histochem J 18 : 5-14 , 1986 .

Podack ER , and Konigsberg PJ . Cytolytic T cell granules . Isolation , structural , biochemical and functional characterization . J Exp Med . 160 : 695 .1984 .

Pross HF : The involvement of natural killer cells in human malignant disease . In : Lotzova E & Herberman RB (Eds) . Immunobiology of Natural Killer Cells Vol II CRC Press , Boca Raton , Florida 11 - 27 , 1986 .

Quinn CM , and Wright NA . The clinical assessment of proliferation and growth in human tumors : evaluation of methods and applications as prognostic variables . J Pathol 160 : 93 -102 , 1990 .

Quirke P , and Dyson JED . Flow Cytometry : methodology and applications in pathology . J Pathol 149 : 79 - 87 , 1986 .

Richman AV , Balis GA , and Maniscalco JE . Primary intracerebral tumor with mixed chondrosarcoma and glioblastoma - gliosarcoma or sarcoglioma ? J Neuropathol Exp Neurol 39 : 329 - 335 , 1980 .

Ridley A, Cavanagh JB. Lymphocytic infiltration in gliomas : evidence of possible host resistance. Brain 94 ; 117 - 124 , 1971 .

Roberts CG , deFazio A and Tatters M . A simple and rapid method for the identification of cycling cells in freshly excized tumors . *Cytobios* 43 : 313 - 318 , 1985 .

Roitt IM, Brostoff J, and Male DK. Cells involved in the immune response In *Immunology* Ed.2 Ch 2 . 1-7 . Churchill & Livingstone London New York 1989 .

Ronan SG , and DasGupta TK . Histologic prognostic indicators in cutaneous malignant melanoma . *Semin Oncol* 15 : 558 - 565 , 1988 .

Rooney DE , and Czepulkowski BH . (Eds) . *Human Cytogenetics* . A practical approach . IRL . Press , Oxford - Washington 214 - 223 , 1986 .

Rorke LB . The cerebellar medulloblastoma and its relationship to primitive neuroectodermal tumors . *J Neuropathol Exp Neurol* 42 : 1 - 15 , 1983 .

Rubinstein LJ . Tumors of the central nervous system . In : *Atlas of tumor pathology* , series 2 , Fascicle 6 , Washington , DC : Armed Forces Institute of pathology, 74 - 78 , 1972 .

Rubinstein LJ . The cerebellar medulloblastoma : Its origin , differentiation , morphological variants , and biological behavior. In : Vincken PJ , Bruyn GW, eds . Tumor of the Brain and skull, part 11 . New York : Elsevier 167 - 194 , 1975 .

Rubinstein LJ . Tumors of the central nervous system in : Atlas of tumor Pathology , series 2 Fascicle 6, Washington ,DC : Armed Forces Institute of pathology , 20 -31 , 1985 (a) .

Rubinstein LJ . Tumors of the central nervous system in Atlas of Tumor pathology ,series 2 Fascicle 6 ,Washington, DC : Armed Forces Institute of Pathology ,42 -43,1985 (b) .

Rubinstein LJ : Tumors of the central nervous system in Atlas of tumor pathology series 2 Fascicle 6,Washington,DC : Armed forces Institute of pathology 108 -129 ,1985 (c) .

Rubinstein LJ : Tumors of the central nervous system in Atlas of tumor pathology series 2, Fascicle,Washington, DC : Armed forces Institute of pathology , 130 -143 ,1985 (d) .

Rubinstein LJ and Northfield DWC . The medulloblastoma and the so-called " arachnoid cerebellar sarcoma " Brain . 87 : 379 - 410 , 1964 . Quated from Hazuka MB, DeBiose DA and Henderson RH . Survival results in adult patients treated for medulloblastoma . Cancer 69 : 2143 - 2148 , 1992 .

Russell DS , and Rubinstein LJ . Pathology of tumors of the nervous system . ed , 4 , Baltimore : Willimas & Wilkins . 146 -282 , 1977 .

Russel DS and Rubinstein LJ . Pathology of tumors of the nervous system ed,5, Baltimore : Willimas & Wilkins.219 :421 -448 , 1989 .

Safdari H . Hochberg FH and Richardson EP. Prognostic value of round cell (lymphocyte) infiltration in malignant gliomas . Surg Neurol 23 : 221 - 226 , 1985.

Salmon I and Kiss R . :Relationship between proliferative activity and ploidy level in a series of 530 human brain tumors , including astrocytomas , meningiomas,schwanomas and metastasis .Hum.Pathol 24 :329 -335 ,1993 .

Sandritter W . Quantitative pathology in theory and practice path Res Pract .171 :2-21 ,1981 .

Sarmiento J ,Ferrer K and Pons L . cerebral mixed tumor: Osteo-Chondrosarcoma -glioblastoma multiforme.. Act Neuro chir (wein) 50 : 335 -341 .1979 .

Sasaki K ,Murakami T ,Kawasaki M and Takahashi M: The cell cycle associated change of the Ki 67 reactive nuclear antigen exprssion . J.Cell Physiol 133: 579 -584 .1987

Sasaki K, Matsumura K ,Tsuji T , Shinozaki F. and Takahashi M . Relationship between labelling indices of Ki 67 and BrdUrd in human malignant tumors . Cancer 62 : 989 - 993 , 1988 .

Schiffer D , Giordana MT , Paoletti , Soffietti R , and Tarenzi L. Pathology of human malignant gliomas after radiation and chemotherapy . Acta Neurochir 53:205 -216 , 1980 .

Schraper S , Jones DB and Wright DH . A comparison of three methods for the determination of the growth fraction in non Hodgkin's lymphoma . Br J Cancer 55 : 283 -283 , 1987 .

Schroder R , Bien K , Kott R , Meyers I and Vossing R : The relationship between Ki67 labeling and mitotic index in gliomas and meningiomas : demonstration of the variability of the intermitotic cycle time . Acta Neuropathol . 82 :389 -394 ,1991.

Schwartz R , Gerdes J , Niehus J , Jaeschke , and Stein H . Determination of the growth fraction in cell suspension by flow cytometry using the monoclonal antibody Ki-67 . J. Immunol Methods 90 :65 -70 , 1986 .

Shapiro HM . Practical flow cytometry 2nd Ed . New York .Alan R.Liss ,125 -133 ,1988 .

Shaw EG , Daumas -Duport C , Scheithauer BW . Radiation therapy in the managment of low - grade supratentorial astrocytomas . J Neurosurg 70 : 853 - 861 .1989 .

Smith MT , Ludwig CL , Godfrey AD , and Armbrustmacher VM . Grading of Oligodendrogliomas .Cancer 52 : 2107 -2114 .1983 .

Specht I . Prognostic factors in Hodgkin's disease . cancer Treat Rev 18 : 21 - 53 , 1991.

Speth RC , and Harik SI . Angiotensin II receptor binding sites in brain microvessels Proc. Nati. Acad. Sci USA 82 : 6340 - 6343 .1985 .

Sorskaar D , Forre Q .Albrechtsen D and Stavem P . Decreased natural killer cell activity versus normal natural killer cell markers in mononuclear cell from patients with smouldering leukaemia . Scand.J.Haematol. 37 :154 -161 , 1986 .

Stevens A ,Koiter I and Roggendort ,W . Inflammatory infiltrate and natural killer cell presence in human brain tumors . Cancer 61: 738 -743 ,1988 .

Storkus WJ and Dawson JR . B cell sensitivity to natural killing : Correlation with target cell stage of differentiation and state of activation . J. Immunol 136 : 1542 -1547 , 1986 .

Svedersky L ,Shepard HM , Spencer SA , Shalaby MR and Palladine MA . :Augmentation of human natural cell-mediated cytotoxicity by recombinant human interleukin 2 . J.Immunol 133 :714 -718, 1984.

Svien HJ, Mabon RF and Kernohan JW . Astrocytomas . Proc Staff Mrg Mayo Clinic 24 : 54 - 64 , 1949 . Quated from Burger PC : Malignant astrocytic neoplasms : Classification , pathologic anatomy , and Response to Treatment. Seminars in oncology. 13 : 16-26, 1986 .

Swain SI : T cell subsets and the recongnition of MHC class . Immunol Rev .74: 129 -134 ,1983 .

Taso MS . Giant cell astrocytoma with histiocytic infiltrate . Definition of a subgroup of monstrocellular brain tumors . Acta Neuropathol (Berl) 59 : 75 -77 ,1983 .

Theunissen PHMH and Balaauw G . Proliferating cell nuclear antigen immunostaining and survival in astrocytoma . Histopathol 23 : 75 -79 , 1993 .

Tomita T , Yasue M , and Engelhard HH . Flow Cytometric DNA analysis of medulloblastoma , prognostic implication of aneuploidy . Cncer 61: 744 -749 ,1988 .

Tooth HH . Some observations on the growth and survival period of intracranial tumors ,based on the records of 500 cases with special reference to the pathology of gliomata . Brain 35 :61 -108 ,1912 . Quated from Burger PC : Malignant astrocytic neoplasms : Classification , pathologic anatomy , and Response to Treatment. Seminars in oncology. 13 : 16-26, 1986 .

Tosi P . What 's new in quantitative pathology ? past developments and outlook . Path Res Pract 184 :652 -655 .1989 .

Tsujimoto M ,Aozasa K ,Komatsubara Y ,Morimura Y and ueda T . Multivariate analysis for histologic prognostic factors in soft tissue sarcomas . Cancer 62 : 994 - 998 ,1988 .

Ueda T , Aozasa K and Tsujimoto M . Prognostic significance of KI -67 reactivity in soft tissue sarcomas .Cancer 63: 1607 -1611 ,1989 .

Ullen H , Blom U and Blomgren H . Blood lymphocyte subsets in patients with primary intracranial tumors: Correlation to histological tumors type and anatomical site . Acta Neurochir 81 : 100-105 , 1986 .

Underwood JCE : Prognostic indices in epithelial neoplasms.In Anthony PP , Mac Sween RNM , eds Recent advances in histopathology .Edinburgh .Churchill .Livingstone 15 :17 -36 ,1992 .

Vaquero J , Santiago C ,Oya S , Panton and Martinez R . Presence and significance of NK cells in glioblastomas . J Neurosurg. 70 : 728 -731 , !989 .

Vaquero J , Santiago C , Magallon R ,Ponton P and Martinez R . Immunohistochemical study of natural killer cells in tumor - infiltrating lymphocytes of primary intracranial germinomas . J .Neurosurg . 72 : 619 -625 , 1990 .

Von Hanwehr RI , Hofman FM , Taylor CR , and Apuzzo MLJ
 . Mononuclear lymphoid populations infiltrating the
 microenvironment of primary CNS tumors .
 Characterizations of cell subsets with monoclonal
 antibodies . J. Neurosurg. 60 : 1148 - 1147 , 1984 .

Wahl AF , Geis AM , and Spain BH . Gene expression of human
 DNA polymerase α during cell proliferation and the cell
 cycle . Mol cell Biol 8 : 5016 - 5025 , 1989 .

Walter JB and Israel MS . The normal cell . In General Pathology
 5th ed , churchill . Livingstone London New York 32 :
 1987.

Watson JD . The DNA story. Freeman, San Fransisco, 605, 1981.
 Quated from Walter JB and Israel MS . The normal cell .
 In General Pathology 5th ed , churchill . Livingstone
 London New York 32 : 1987.

Watson JD and Crick FHC . Molecular structure of nucleic acid .
 Nature . 171 : 737 - 739 , 1953 .

Weir B and Elvidge AR . Oligodenroglioma : an analysis of 63
 cases . J. Neurosurg . 29 : 500 .1968 .

**West WH , Cannon GB ,Kay HD , Bonnard GD and Herberman
 RB** . Natural cytotoxic reactivity of human lymphocytes
 against a myeloid cell line : Characterization of effector
 cells . J. Immunol; 118 : 355 -361.,1977.

Winger, MJ , Macdonald ,DR and Cairncross JG .
Supratentorial anaplastic gliomas in adults .The prognostic importance of extent of resection and prior low - Grade glioma . J. Neurosurg . 71 : 487 -493 , 1989 .

Wong JT , Pinto CE and Gifford JD , Kurnick JT and Kradin RL . Characterization of the CD4+ and CD8+ tumor infiltrating lymphocytes propagated with bispecific monoclonal antibodies . J. Immunol . 143:3404 -3411 ,1989 .

Wright NA : Cell proliferation in health and disease . In Anthony PP , Mac Sween RNM eds. Recent advances in histopathology . Edinburgh : Churchill livingstone 14 : 17 -33 , 1984 .

Yanelli JR , Sullivan JA , Mandell GL and Engelhard VH. Reorientation and fusion of cytotoxic T lymphocyte granules after interaction with target cell as determined by high resolution cinematography . J.Immunol 136 :377 -385 , 1986 .

Zuber P , Hamou MF and De Tribolet N : Identification of proliferating cells in human gliomas using the monoclonal antibody Ki -67 . Neurosurg . 22 :364- 368, 1988 .

Zulch KJ . Histological Typing of tumors of the central nervous system : International classification of tumors . No 21 . Geneva : World Health Organisation 19 - 20 , 1979 . (a) .

Zulch KJ (b) . Histological typing of tumors of the central nervous system . International classification of tumors, No 21 .Geneva : World Health Organization . 43 -44 , 1979 . (b) .

Zulch KJ (c) . Histological typing of tumors of the central nervous system . International classification of tumors, No 21 .Geneva : World Health Organization . 51 - 61 , 1979 . (c) .

Zulch KJ . Brain tumors - Their biology and pathology . Berlin , New York Springer -Verlag 323 -325 , 1986 .