

References

- Admirand JH, Rassidakis GZ, Abruzzo LV, Valbuena JR, Jones D, Medeiros LJ :** Immunohistochemical detection of ZAP-70 in 341 cases of non-Hodgkin and Hodgkin lymphoma. *Model Pathology*. 2004;17:954-961.
- Arico M, Valsecchi MG, Camitta B, Schrappe M, Chessells J, Baruchel A:** Outcome of treatment in children with Philadelphia chromosome positive acute lymphoblastic leukemia. *New England Journal of Medicine* 342 (14): 998-1006, 2000.
- Arndt CAS and Anderson PA:** Acute Myeloid Leukemia. In Nelson text book of Pediatrics. Berhman RE, Kilegman RM and Jenson HB (eds.), 16th edition, Volume 4, Chapter 502-2; p.1546-1547, 2000.
- Arpaia E, Shahar M, Dadi H, Cohen A, Roifman CM:** Defective T-cell receptor signaling and CD8+ thymic selection in humans lacking zap-70 kinase. *Cell* 76:947-958,1994.
- Ashley DJ:** Histological appearance of tumours 3rd edition Churchill Livingstone Edinburgh, London and New York, p.161, 1978.
- Bagwell CB and Adams EG:** Fluorescence spectral overlap for any number of flow cytometry parameters. *Annual NewYork Academy Science* 677:167-84, 1993.
- Bates I:** Bone marrow biopsy: practical Haematology. Lewis S.,Bain B. and Bates I.9th edition,Churchill Livingstone,London,chapter 6:101-114,2001.
- Bauer KD, Duque RE and Shankey TV:** Clinical flow cytometry: principles and application, Baltimore: Williams and Wilkins; 1993.
- Behm FG, Head DR, Pui CH, Raimondi SC, Frestedt JL, Downing JR:** B-precursor ALL with unexpected expression of surface immunoglobulin (sig) mu and lambda. *Laboratory Investigation* 72: A-613, 106a, 1995.
- Behm FG, Smith FO, Riamondi SC, Pui CH and Bernstien L:** Human homologue of the rat chondroitin sulfate proteoglycan, NG2, detected by

monoclonal antibody 7.1 identifies childhood acute lymphoblastic leukemias with t(4;11)(q21;q23) or t(11;19)(q23;p13) and MLL gene rearrangements. *Blood* 87:1134, 1996.

Beishuizen A, Verhoeven MA, van Wering ER, Hahlen K, Hooijkaas H, van Dongen JJ: Analysis of Ig and T-cell receptor genes in 40 childhood acute leukemia at diagnosis and subsequent relapse: Implication for the detection of minimal residual disease by polymerase chain reaction analysis. *Blood* 83:2238, 1994.

Bennett JM, Catovsky D and Daniel MT: (FAB cooperative Group): The morphological classification of acute lymphoblastic leukemia. Concordance among observers and clinical correlation. *Br.J. Haematology*; 47:553-561, 1980.

Bennett JM, Catovsky D, Daniel MT, Flandrin G, Galton DA, Gralnick HR, Sultan C: The French-American-British (FAB) classification of acute lymphoblastic leukemia, Concordance among observers and clinical correlation. *Br. J. Haematology*; 47:553-561, 1981.

Bergsagel DE: Chemotherapy of myeloma drug combinations versus single agents, an overview and comments of acute leukemia in myeloma-*Haematology. Oncology*; 6: 159, 1988 .

Bernier M, Massey M, Deleeuw N, Bron D, Debusscher L and Stryckmans P: Immunological definition of acute minimally differentiated myeloid leukemia (M0) and acute undifferentiated leukemia (AUL), *Leuk. Lymphoma* 18:13, 1995.

Bhatia S and Neglia JP: Epidemiology of childhood acute myelogenous leukemia. *J Pediatrics Hematology Oncology* 17: 94, 1995.

Bhatia S, Sather H, Zhang J, Heerema NA, Trigg ME, Gaynon PS: Ethnicity and survival following childhood acute lymphoblastic leukemia (ALL): Follow-up of the children's Cancer Group (CCG) cohort. *Proceedings of the American Society of Clinical Oncology* 18: A2190, 568a, 1999.

- Biernaux C, Loos M, Sels A, Huez G and Stryckmans P:** Detection of major bcr-abl gene expression at a very low level in blood cells of some healthy individuals. *Blood* 86: 3118, 1995.
- Biondi A, Rambaldi A, Rossi V, Giudici G, Alcalay M, Lo Coco F:** Detection of ALL1/AF4 fusion transcript by reverse transcription polymerase chain reaction for diagnosis and monitoring of acute leukemia with t(4;11) translocation. *Blood* 82:2943, 1992.
- Borowitz MJ, Guenther KL, Shults KE and Stelzer GT:** Immunophenotyping of acute leukemia by flow cytometric analysis. Use of CD45 and right angle light scatter to gate on leukemic blasts in three color analysis. *American J Clinical Pathology* 100:534, 1993.
- Borowitz MJ:** Immunophenotyping of acute leukemia by flow cytometry. *Clinical Immunology. News letter* 13:53, 1993.
- Braylan R and Anderson J:** Flowcytometry analysis of Haematologic Neoplasia. Faguet G., New Jersey; ch.10:217-230, 2001.
- Brown M and Wittwer C:** Flow cytometry: principles and clinical applications in hematology. *Clinical Chemical.* 46(8 Pt 2):1221- 9, 2000.
- Burmester GR, Pezzutto A, Wirth J:** Color atlas of Immunology, 2003.
- Campana D and Pui CH:** Detection of minimal residual disease in acute leukemia: Methodology advances and clinical significance. *Blood* 85: 1416, 2000.
- Chan AC, Iwashima M, Turck CW, Weiss A:** ZAP-70 Kd protein tyrosine that associates with the TCR zeta chain. *Cell* 71: 649-662; 1992.
- Chan AC, Van Oers NS, Tran A, Turka L, Law CL, Ryan JC:** Differential expression of ZAP-70 , Syk protein tyrosine kinases and role of this family in TCR signaling. *J Immunology*; 152: 4758-4766, 1994.
- Chen L, Apgar J, Huynh L, Dicker F, Giago-McGahan T, Rassenti L:** Zap-70 directly enhances IgM signaling in chronic lymphoblastic leukaemia. *Blood*:1705-1715, 2004.

- Cheson BD, Cassileth PA, Head DR, Schiffer CA, Bennett JM, Bloomfield CD:** Report of the National Cancer Institute-Sponsored Workshop on definitions of diagnosis and response in acute myeloid leukemia. J Clinical Oncology 8:813, 1990.
- Chessells JM, Bailey C, Richards SM and Wheeler K:** Intensification of treatment and survival in all children with lymphoblastic leukaemia: results of UK Medical Research Council trial UK ALL (X). Medical Research Council Working Party on Childhood Leukaemia. Lancet 345 (8943): 143-148, 1995b.
- Chessells JM, Richards SM, Bailey CC, Lilleyman JS and Eden OB:** Gender and treatment outcome in childhood lymphoblastic leukaemia: report from the MRC UK ALL trials. British Journal of Haematology 89 (2): 364-372, 1995a.
- Chiaretti S, Guarini A, De Propriis MS, Tavoraro S, Intoppa S, Vitale A:** ZAP-70 expression in acute lymphoblastic leukemia: association with the E2A/PBX1 rearrangement and the pre-B stage of differentiation and prognostic implications. Blood;107:197-204, 2006.
- Code of federal regulations:** Volume 42, Part 405. Clinical Laboratory Improvement Amendments (CLIA), 1998.
- Coleman MP:** Leukemia and residence near electricity transmission equipment. A case control study. Br. J. Cancer; 60: 793, 1989.
- Conter V, Arico M, Valsecchi MG :** Long term results of the Italian Association of Pediatric Hematology And Oncology (AIEOP) acute lymphoblastic leukemia studies,1982-1995.Leukemia; 14(12):2196-204, 2000.
- Coopman PJ, Do MT, Barth M, BowdenET, Hayes AJ, Basyuk E:** The Syk tyrosine kinase suppresses malignant growth of human breast cancer cells.Nature; 406:742-7: 2000.

- Copelan EA and McGuire EA:** The biology and treatment of acute lymphoblastic leukemia in adults. *Blood* 85:1151, 1995.
- Creutzig U, Harbott J, Sperling C, Ritter J, Zimmermann M, Loffler H:** Clinical significance of surface antigen expression in children with acute myeloid leukemia: Results of Study AML-BFM-87. *Blood* 88:3097, 1995.
- Crist W, Shuster J, Look T, Borowitz M, Behm F, Bowman P:** Current results of studies of immunophenotype, age and leukocyte based therapy for children with acute lymphoblastic leukemia; *Leukemia* 6: 162, 1992.
- Crist WM and Smithson WA:** The leukemias. In Nelson text book of pediatrics. Behrman RE, Kliegman RM, and Jenson H.B (eds.), 16th edition, Volume 4, Chapter 502; p.1543-1546, 2000.
- Crist WM, Carroll AJ, Shuster JJ, Behm FG, Whitehead M, Vietti TJ:** Poor prognosis of children with pre-B acute lymphoblastic leukemia is associated with the t (1; 19) (q23; p13): a Pediatric Oncology Group study. *Blood* 76 (1): 117-122, 1990.
- Dacie JV and Lewis SM:** Bone marrow technique of needle aspiration biopsy. In: practical Haematology, 6th edition. p117, Churchill livingstone Edinburgh.
- De Zen L, Bicciato S, Kronnie G, Basso G:** Computational analysis of flowcytometry antigen expression profiles in childhood acute lymphoblastic leukemia. *Leukemia* 17:1557–65; 2003.
- Dolken G, Illerhaus G, Hirt C and Mertelsmann R:** BCL-2/J_H rearrangements in circulating B-cells of healthy blood donors and patients with non malignant diseases. *J Clin Oncology* 14:1333, 1996.
- Dordelmann M, Reiter A, Borkhardt A, Ludwig WD, Gotz N, Viehmann S:** Prednisone response is the strongest predictor of treatment outcome in infant acute lymphoblastic leukemia. *Blood* 94 (4): 1209-1217, 1999.

- Dressler LG:** Controls, standards, and histogram interpretation in DNA flow cytometry. In: Darzynkiewicz Z. and Crissman HA. Methods in cell biology 33:157, 1990.
- Drouet M and Lees O:** Clinical applications of flow cytometry in hematology and immunology. Biological Cell 78:73, 1993.
- Duque RE:** Flow cytometric analysis of lymphomas and acute leukemias. Annual NewYork Academy Science 20;677:309-25, 1993.
- Durig J, Nuckel H, Cremer M:** ZAP-70 expression is a prognostic factor in chronic lymphocytic leukemia. Leukemia;17:2426-2434, 2003.
- Eber M, Battmer K and Kafert S:** Monitoring of BCR-ABL expression using “real-time” RT-PCR in CML after bone marrow or peripheral blood stem cell transplantation. Leukemia 13:893, 1999.
- Estrov Z and Freedman MH:** Detection of residual disease in acute lymphoblastic leukemia of childhood. Leuk; Lymphoma 33:47, 1999.
- Extermann M:** Acute leukemia in the elderly, Clinics in Geriatric Medicine 13(2),227-277,1997.
- Flandrin G, and Daniel MT:** Cytochemistry in classification of leukemias. In: the leukemic cell. Catovsky, D. (ed.) p: 44; Churchill Livingstone, New York, 1981.
- Ford AM, Bennett CA, Price CM, Bruin MC, Van Wering ER and Greaves M:** Fetal origins of the TEL-AML1 fusion gene in identical twins with leukemia. Protocol National Academic Science USA, 95:4584, 1998.
- Fossati P, Prencipe L and Berti G:** Use of 3,5-dichloro-2-hydroxy-benzenesulfonic acid / 4-aminophenazone chromogenic system in direct enzymic assay of uric acid in serum and urine. Clinical Chemical: 26:227-231, 1980
- Gajjar A, Ribeiro R, Hancock ML, Rivera GK, Mahmoud H, Sandlund JT:** Persistence of circulating blasts after 1 week of multiagent chemotherapy

- confers a poor prognosis in childhood acute lymphoblastic leukemia. *Blood* 86 (4): 1292-1295, 1995.
- Gale KB, Ford AM, Repp R, Borkhardt A, Keller C, Eden OB:** Backtracking leukemia to birth: Identification of clonotypic gene fusion sequences in neonatal blood spots. *Proc.Natl Academic Science USA*, 94:13950, 1997.
- Gaynon PS, Crotty ML, Sather HN, Bostrom BC, Nachman JB, Steinherz PG:** Expression of BCR-ABL, E2A-PBX1 and MLL-AF4 fusion transcripts in newly diagnosed children with acute lymphoblastic leukemia: A Children's Cancer Group initiative. *Leukemia Lymphoma* 26: 57, 1997.
- Givan AL:** Flow Cytometry: first principles, NewYork: Wiley-Liss; 1992.
- Gollin SM and Janecka IP:** Cytogenetics of cranial base tumors. *J Neuro oncology*. 20(3):241-54, 1994.
- Gray JW, Kuo WL, Liange J, Pinkel D, Van den Engh, Trask B:** Analytical approaches to detection and characterization of disease linked chromosome aberrations.*Bone Marrow Transplant* 6 (Suppl. 1):14, 1990.
- Greaves M:** Aetiology of acute leukemia. *N Engl J, Med* 349(9048):349, 1997.
- Greaves MF, Hariri G, Newman RA, Sutherland DR, Ritz J:** Selective expression of the common acute lymphoblastic leukemia (gp.100) antigen on immature lymphoid cells and their malignant counterparts. *Blood*; 61(4):628-639, 1983.
- Greene MH:** Melphalan may be a more potent leukemogen than cyclophosphamide. *Annual International Med*; 105: 360, 1986.
- Grever MR, Lucas DM, Dewald GM:** Comprehensive assessment of genetic and molecular features predicting outcome in patients with CLL. *Clinical Oncology*, 1:25(7):799-804, 2007.

- Grimwade D, Walker H, Oliver F, Wheatley K, Harrison C, Harrison G :** The importance of diagnostic cytogenetics on outcome in AML: analysis of 1,612 patients entered on the MRC AML 10 trial. *Blood* 92: 2322, 1998.
- Guillaume N, Celine A, Delicia M:** Expression & phosphorylation of ZAP-70 & SYK in ALL cells .*Hematology Journal*:899-905,2005.
- Hagenbeek A and Martens AM:** Minimal residual disease in acute leukemia: Preclinical studies in a relevant rat model (BNML). *Baillieres Clinical Haematology* 4:609, 1991.
- Harada N, Okamura S, Kubota A, Shimoda K, Ikematsu W, Kondo S:** Analysis of acute myeloid leukemia cells by flow cytometry introducing a new light-scattering classification. *J Cancer Research Clinical Oncology* 120:553, 1994.
- Harris MB, Shuster JJ, Carroll A, Look AT, Borowitz MJ, Crist WM :** Trisomy of leukemic cell chromosomes 4 and 10 identifies children with B-progenitor cell acute lymphoblastic leukemia with a very low risk of treatment failure. A pediatric oncology group study. *Blood*. 79: 3316-3324, 1992.
- Heerema NA, Nachman JB, Sather HN, Sensel MG, Lee MK, Hutchinson R:** Hypodiploidy with less than 45 chromosomes confers adverse risk in childhood acute lymphoblastic leukemia: a report from the Children's Cancer Group. *Blood* 94 (12): 4036-4045, 1999.
- Henderson LO, Marti GI, Gaigalas A, Hannon WH and Vogt JR:** Terminology and nomenclature for standardization in quantitative fluorescence cytometry. *Cytometry* 33(2):97-105, 1998.
- Hiddemann W, Schumann J, Andreef M , Barlogie B, Herman CJ, Leif RC:** Convention on nomenclature for DNA cytometry. *Cytometry* 5:445,1984.
- Hoffman:** *Hematology: Basic Principles and Practice*, 3rd ed, Churchill Livingstone, Inc 2000.

- Hunger SP:** Chromosomal translocations involving the E₂A gene in acute lymphoblastic leukemia: Clinical features and molecular pathogenesis. Blood 87 (4): 121-1224, 1996.
- Hurwitz CA, Loken MR, Graham ML, Karp JE, Borowitz MJ, Pullen DJ:** Asynchronous antigen expression in B-lineage acute lymphoblastic leukemia. Blood 72:299-307;1988.
- Ichimaru M:** Leukemia, multiple myeloma and malignant lymphoma in cancer in atomic Bomb survivors. Shigemata I, Kagan A (eds.) p: 82, Tokyo, Japan Scientific Societies press, 1986.
- Ito C, Kumagai M, Manabe A, Coustan-Smith E, Raimondi SC, Behm FG :** Hyperdiploid acute lymphoblastic leukemia with 51 to 65 chromosomes: a distinct biological entity with a marked propensity to undergo apoptosis. Blood 93 (1): 315-320, 1999.
- J Philip:** Basic principles of flow cytometry. Hematology and Oncology Clinics of North America, Volume 16(2), 2002.
- Jenderassik I and Grof P:** Vereinfachte photometrische Methoden Zur Bestimmung des Bilirubins. Biochemical Zschr, 297:81-89,1938.
- Jennings CD and Foon KA:** Flow cytometry: Recent advances in diagnosis and monitoring of leukemia. Cancer 15:384, 1997.
- Jennings CD and Foon KA:** Recent advances in flow cytometry: application to the diagnosis of hematologic malignancy. Blood 90:2863-92, 1998.
- Joensuu H and Klemi PJ:** DNA content analysis of fine needle aspirates obtained from lymphatic tissue. Annual Quantitative Cytology Histology, 15(4):259-64,1993.
- Johansson B, Moorman AV, Haas OA, Watmore AE, Cheung KL, Swanton S:** on behalf of the European 11q23 workshop participants: Hematologic malignancies with t (4; 11) (q21; q23) – a cytogenetic, morphologic, immunophenotypic and clinical study of 183 cases. Leukemia 12 (5): 779-787, 1998.

- Johnson RL:** Flow cytometry: From research to clinical laboratory applications. *Clinic Lab Medical* 13:831, 1993.
- Kaldor JM:** Leukemia following chemotherapy for ovarian cancer. *N. England. J. Med*, 322: 1, 1990.
- Kane LP, Lin J, Wiess A:** Signal transduction by the TCR for antigen. *Curr Opin. Immunology* 12:242-249,2000.
- Kanerva J, Sarrinen-Pihkala UM, Riikonen P, Makiperna A, Mottonen M, Salmi TT:** Reemphasis on Lymphoblast L2 Morphology as a poor prognostic factor in childhood acute lymphoblastic leukemia. *Medical Pediatric oncology*; 33(4): 388-394,1999.
- Kantarjian HM:** Adult acute lymphoblastic leukemia: Critical review of current knowledge. *American J. Med.*, 97:176, 1994.
- Keren DF, Hanson CA and Hurtubise PE:** Flow cytometry and clinical diagnosis. Chicago: ASCP Press, 664, 1994.
- Khalifa AS, Moktar GM, Gaballah M:** Clinico-epidemiological study of acute leukemia in Egypt.*J.Hematology*;13(3-4):167-188,1988.
- Koeffler HP and Golde DW:** Chronic myelogenous leukemia-New concepts (first of two parts). *N. England. J. Med.*, 304, 20: 1201-1207, 1981.
- Koehler M, Behm FG, Shuster J:** Transitional preB-cell acute lymphoblastic leukemia of childhood is associated with favorable prognostic clinical features and an excellent outcome: a Pediatric Oncology Group study. *Leukemia*, 7: 2064-2068, 1993.
- Kurosaki T:** Genetic analysis of B cell antigen receptor signaling.*Annual Review Immunology*,17:555-592,1999.
- Lanzowsky P:** Acute leukemia. In: *Manual of pediatric Haematology and oncology*, second edition p: 315, Churchill Livingstone, 1995.
- Lanzowsky P:** Leukemia in: *Manual of pediatric Haematology and oncology*, third edition p: 359-409 Academic press, san Diego, san Francisco, New York, Boston, London, Sydney and Tokyo, 2005.

- Lavey RS:** Impact on second malignancy risk of the combined use of radiation and chemotherapy for lymphomas. *Cancer*; 66: 80, 1990.
- Liblit RL:** Guidelines for implementation of clinical DNA cytometry. *Cytometry* 14: 472, 1993.
- List AF:** Lymphoproliferative diseases in immunocompromized hosts. The role of Epstein Barr Virus. *J. Clin. Oncology*. 5: 1673, 1987.
- Lukens JN:** Acute lymphocytic leukemia. IN Lee GR, Bithell TC, Foerster J, Athens JW, and Lukens JN (eds): *Wintrobe's clinical Haematology*. 9th edition. Lea and Febiger, Philadelphia, London P. 1892, 1993.
- Macy MG:** Flow cytometric analysis of lymphocytes, leukemias and lymphomas. *Br. J. Biomedicine Science* 50:334, 1993.
- Mandy FF, Bergeron M and Minkus T:** Principles of flow cytometry. *Transfusion Science*. 16(4):303-14, 1995.
- Marshall T and Rutledge JC:** Flow cytometry DNA applications in pediatric tumor pathology. *Perspect Pediatric Pathology* 23:55-57, 2001.
- Mauer AM:** Acute lymphocytic leukemia In: *Haematology*. Williams WJ, Buller E, Erslev AJ and Lichtman MA (eds.). 4th ed. Chapter, 113. pp: 994-994-1005. McGraw-Hill, Publishing company, New York, 1990.
- McLean TW, Ringold S, Neuberg D, Stegmaier K, Tantravahi R, Ritz J:** TEL/AML-1 dimerizes and is associated with a favorable outcome in childhood acute lymphoblastic leukemia. *Blood* 88 (11): 4252-4258, 1996.
- McKenna RW:** Multifaceted approach to the diagnosis and classification of acute leukemia. *Clinical Chemistry*; 46(8 pt 2):1252-1259, 2000.
- Melamed MR, Lindmo T and Mendelsohn ML:** Flow cytometry and sorting, 2nd edition New York: Wiley-Liss; 1990.
- Miller RW, Young JJJr and Novakovic B:** Childhood cancer. *Cancer* 75 (suppl.1): 395, 1995.

- Miller DR, Steinherz PG, Feuer D, Sather H:** Unfavorable prognostic significance of hand mirror cells in childhood acute lymphoblastic leukemia a report from the children's Cancer Study Group. American J Disease Child 137: 346, 1983.
- National Cancer Institute:** Surveillance Epidemiology and End Results(SEER),Cancer Statistics Review, 2003.
- Ng SM, Lin HP, Affrin WA, Zainab AK, Lam SK, Chan LL:** Age, sex, hemoglobin level, WBCs at diagnosis are important prognostic factors in children with acute lymphoblastic leukemia treated with BFM-type protocol.J Tropical Pediatric; 46(6)p.338-342,2000.
- Nizet Y, Van Daele S, Lewalle P, Vaerman JL, Philippe M, Vermynen C:** Long-term follow up of residual disease in acute lymphoblastic leukemia patients in complete remission using clonogenic IgH probes and the polymerase chain reaction. Blood 83:412, 1993.
- Ong ST and Larson RA:** Current management of acute lymphoblastic leukemia in adults. Oncology 9:433, 1995.
- Ormerod MG:** Flow Cytometry, 2nd edition NewYork: Springer-Verlag; 1999.
- Packham G, Cleveland J:** C-Myc and apoptosis. Biochemical Biophysical Acta, 1242: 11-28, 1995.
- Panzer-Grumayer ER, Schneider M, Panzer S, Fasching K and Gardner H:** Rapid molecular response during early induction chemotherapy predicts a good outcome in childhood acute lymphoblastic leukemia. Blood 95 (3): 790-794, 2000.
- Parkin DM, Stiller CA, Draper GJ, Bieber CA, Terracini B, Young JL:** International incidence of childhood cancer.Lyon, France: (International Agency for Research on Cancer) Scientific Publications, p.87, 1988.
- Philip J :** Basic principles of flow cytometry.Hematology / Oncology Clinics of North America Volume 16 (2), 2002.

- Popper H, Mandel E, Mayer H:** Zur Kreatininbestimmung in Blute. *Biochemical Z*, 291:354-67, 1937.
- Potter MN, Stewart CG and Oakhill A:** The significance of detection of minimal residual disease in childhood acute lymphoblastic leukemia. *Br J Haematology* 83:412, 1993.
- Prowit-MacDonald A, Janoossy G, Ivory K, Swirsky D, Peters R, Wheatley K:** Leukemia associated changes identified by quantitative flow cytometry IV. CD34 over expression in acute myelogenous leukemia M2 with t(8;21). *Blood* 87:1162, 1996.
- Pui CH, Relling MV, Downing JR:** Acute lymphoblastic leukemia. *N England J Med* 336:317, 1997. *N.England. J Med*, 350(15):1535,-1548, 2004a.
- Pui CH and Evans WE:** Acute lymphoblastic leukemia. *N.England Journal of Medicine* 339 (9): 605-615, 1998.
- Pui CH, Boyett JM, Relling MV, Harrison PL, Rivera GK, Behm FG, Sandlund JT, Ribeiro RC, Rubnitz JE, Gajjar A, Evans WE:** Sex differences in prognosis for children with acute lymphoblastic leukemia. *J Clinical oncology*; 17(3):818-824, 1999.
- Pui CH, Boyett JM, Rivera GK, Hancock ML, Sandlund JT, Ribeiro RC, Rubnitz JE, Behm FG, Raimondi SC, Gajjar A, Razzouk B, Campana D, Kun LE, Relling MV, Evans WE:** Long term results of total therapy studies for Childhood acute lymphoblastic leukemia. *Leukemia*, 14(2):2286-2294, 2000.
- Pui CH, Campana D, Evans WE:** Childhood acute lymphoblastic leukemia current status and future perspectives. *Lancet Oncology*; 2(10):597-607, 2001a.
- Pui CH, Carroll AJ, Raimondi SC, Land VJ, Crist WM, Shuster JJ:** Clinical presentation, karyotypic characterization, and treatment outcome of childhood acute lymphoblastic leukemia with a near haploid or hypodiploid less than 45 line. *Blood* 75:1170, 1993.

- Pui CH, Gaynon PS, Boyett JM, Chessells JM, Baruchel A, Kamps W, Silverman LB, Biondi A, Harms DO, Vilmer E, Schrappe M, Camitta B:** Outcome of treatment in childhood acute lymphoblastic leukemia with rearrangements of the 11q23 chromosomal region. *Lancet*; 359(9321): 1909-15, 2002a.
- Pui CH, Raimondi SC, Borowitz MJ, Land VJ, Behm FG, Pullen DJ:** Immunophenotypes and Karyotypes of leukemic cells in children with Down's syndrome and acute lymphoblastic leukemia. *J Clinical Oncology* 11: 1361, 1993.
- Pui CH, Relling MV, Campana D, Evans WE:** Childhood acute lymphoblastic leukemia. Review clinical Exp Hematology; 6 (2): 161-180, 2002c.
- Pui CH:** Acute lymphoblastic leukemia. In: Beutler E, Lichtman MA, Collier BS, Kipps TJ, Seligsohn U, eds. *Williams Hematology*. 6th Edition McGraw-Hill, New York, P.1141-1161, 2001a.
- Pui CH:** Childhood leukemias. *N England. J. Med* 332: 1618, 1995.
- Pullen J, Shuster JJ, Link M, Borowitz M, Amylon M, Carroll AJ:** Significance of commonly used prognostic factors differs for children with T-cell acute lymphocytic leukemia (ALL), as compared to those with B-precursor ALL. A Pediatric Oncology Group Study. *Leukemia* 13 (11): 1696-1707, 1999.
- Qian D, Wiess A:** T-cell antigen receptor signal transduction. *Curr Opin. Immunology* 9:205-212, 1997.
- Radbruch A:** Flow Cytometry and cell sorting, 2nd edition Berlin: Springer-Verlag; 1999.
- Radich J, Gehly G, Lee A, Avery R, Bryant E, Edmands S:** Detection of bcr-abl transcripts in Philadelphia chromosome positive acute lymphoblastic leukemia after marrow transplantation. *Blood* 89:2632, 1997.
- Raposa J and Varkony J:** Leukemogenic risk prediction of cytostatic treatment. *Prog. Clinical Biology. Research*; 340: 53, 1990.

- Reaman GH, Sposto R, Sensel MG, Lange BJ, Feusner JH, Heerema NA:** Treatment outcome and prognostic factors for infants with acute lymphoblastic leukemia treated on two consecutive trials of the children's Cancer group. *Journal of Clinical Oncology* 17 (2): 445-455, 1999.
- Reiter A, Schrappe M, Ludwig W, Hiddemann W, Sauter S, Henze G:** Chemotherapy in 998 unselected childhood acute lymphoblastic leukemia patients: results and conclusions of the multicenter trial ALL-BFM 86. *Blood* 84 (9): 3122-3133, 1994.
- Reitman S and Frankel S:** A colorimetric method for the determination of serum glutamic oxaloacetic acid and glutamic pyruvic transaminases. *American J. Clinical Pathology*, 28: 56-60, 1957.
- Roberts JAF and Pembrey ME:** The basis of organic inheritance. In: An introduction of medical genetics. 7th edition, chapt. 5. PP 96. The English Language Book Society, 1979.
- Roberts WM, Estrov Z, Ouspenskaia MV, Johnston DA, McClain KL and Zipf TF:** Measurement of residual leukemia during remission in childhood acute lymphoblastic leukemia. *N England J Medicine* 336:317, 1997.
- Rubnitz JE, Camitta BM, Mahmoud M, Raimondi SC, Carroll AJ, Borowitz MJ:** Childhood acute lymphoblastic leukemia with the MLL-ENL fusion and t (11, 19) (q23; P13) translocation. *Journal of Clinical oncology* 17 (1): 191-196, 1999b.
- Schnittger S, Wormann B, Hiddemann W and Griesinger F:** Partial random duplications of the MLL gene are detectable in peripheral blood and bone marrow on nearly all healthy donors. *Blood* 92:1728, 1998.
- Schrappe M, Reiter A, Zimmermann M, Harbott J, Ludwig WD, Henze G, Gadner H, Odenwald E, Riehm H:** Long-term results of four consecutive trials in childhood ALL performed by ALL-BFM study

- group from 1981 to 1995, Berlin-Frankfurt-Munster. *Leukemia* 14 (13): 2205 – 222, 2000b.
- Schumacher HR, Alvares CJ, Blough RI, and Mazzella F:** Acute Leukemia: Clinical Lab Med; 22(1):153-92, 2002.
- Schweighoffer E, Vanes L, Mathiot A, Nakamura T, Tybulewicz VL:** Unexpected requirement for ZAP 70 in pre-B cell development and allelic exclusion. *Immunity* 18:523-533;2003.
- Secker-Walker LM, Berger R, Fenaux P, Lai JL, Nelken B, Garson M :** Prognostic significance of the balanced t(1;19) and unbalanced deletion(19)t(1;19) translocations in acute lymphoblastic leukemia. *Leukemia* 6 (5): 363 – 369, 1992.
- Seeger K, Buchwald D, Taube β , Peter A, von Stackelberg A, Schmitt G** TEL-AML1 positivity in relapsed B-cell precursor acute lymphoblastic leukemia in childhood. Berlin-Frankfurt-Munster study Group. *Leukemia* 13 (9): 1469-1470, 1999.
- Shankey TV (eds):** Clinical flow Cytometry. Baltimore, Williams and Wilkens, p: 235-245, 1993.
- Shapiro HM:** Practical flowcytometry, 3rd edition NewYork:Wiley-Liss; 1995.
- Slovak ML, Kopecky KJ, Cassileth PA, Harrington DH, Theil KS, Mohamed A:** Karyotypic analysis predicts outcome of pre-and post-remission therapy in adult acute myeloid leukemia (AML): A SWOG/ ECOG intergroup study. *Blood* 92 (suppl.1): 451, 1998.
- Smith M, Arthur D, Camitta B, Carroll AJ, Crist W, Gaynon P :** Uniform approach to risk classification and treatment assignment for children with acute lymphoblastic leukemia. *Journal of clinical oncology* 14 (1): 18-24, 1996.
- Steward CG, Goulden NJ, Katz F, Baines D, Martin PG, Langlands K :** A polymerase chain reaction study of the stability of Ig heavy chain and

- T-cell receptor d-gene rearrangements between presentation and relapse of childhood B-lineage acute lymphoblastic leukemia. *Blood* 83:1355, 1994.
- Stewart ZA, Pietsenpol JA:** Syk: a new player in the field of the breast cancer. *Breast Cancer Research*; 3:5-7; 2001.
- Stock W, Sher D, Dodge R, Sobol RE, Wurster-Hill D, Davey FR:** Quantitative molecular monitoring of BCR/ABL transcripts in adult acute lymphoblastic leukemia (ALL) using a real-time PCR assay: Pilot study from the Cancer and Leukemia Group B (CALGB 8762), *Blood* 94 (suppl.1): 287a, 1999.
- Terstappen LW, Konemann S, Stafford M, Loken MR, Zurlutter K, Buchner T:** Flow cytometric characterization of acute myeloid leukemia. Part I. Significance of light scattering properties. *Leukemia* 5:315, 1991.
- Tribukait B, Giaretti W and Ormerod MG:** Consensus report of the task force on standardisation of DNA flow cytometry in clinical pathology. DNA Flow Cytometry Task Force of the European Society for Analytical Cellular Pathology. *Annual Cell Pathology*. 17(2):103-10, 1998.
- Trueworthy R, Shuster J, Look T, Crist W, Borowitz M, Carroll A:** Ploidy of lymphoblasts is the strongest predictor of treatment outcome in B-progenitor cell acute lymphoblastic leukemia of childhood: a Pediatric Oncology Group study. *Journal of Clinical Oncology* 10 (4): 606-613, 1992.
- Tsubokawa M, Tohyama Y, Tohyama K, Asahi M, Inazu T, Nakamura H:** Interleukin-3 activates Syk in a human myeloblastic leukemia cell line, AML 193. *Eur J. Biochemical*; 249: 792-6; 1997.
- Tubergen GD and Bleyer A:** The Leukemias: In; Behrman ER, Kliegman MR and Jenson BH Behrman(eds): *Nelson Textbook of pediatrics*, 17th edition editors.p.1694-1699; 2004.
- Uckun FM, Gaynon PS, Sensel MG, Arthur DC, Trigg ME, Tubergen DG:** Clinical features and treatment outcome of childhood T-lineage acute

- lymphoblastic leukemia according to the apparent maturational stage of T-lineage leukemic blasts: Children's Cancer Group Study. *Journal of clinical oncology* 15 (6): 2214-2221, 1997.
- Uckun FM, Sather H, Reaman G, Shuster J, Land V, Trigg M:** Leukemic cell growth in SCID mice as a predictor of relapse in high risk B-lineage acute lymphoblastic leukemia. *Blood* 85:873, 1995.
- Uckun FM, Sensel MG, Sun L, Steinherz PG, Trigg ME, Heerema NA** Biology and treatment of childhood T-lineage acute lymphoblastic leukemia. *Blood* 91 (3): 735-746, 1998.
- UK Childhood Cancer Study Investigators:** The United Kingdom childhood cancer study, Objectives materials and methods. *Br J Cancer*;82:1073-1102, 2000.
- Van Dilla MA, Dean PN, Laerum OD and Melamed MR:** *Flow Cytometry: Instrumentation and data analysis.* Orlando, FL: academic Press Inc.; 1985.
- Van Dongen JJ, Seriu T, Panzer-Grumayer ER, Biondi A, Pongers-Willemse MJ, Corral L:** Prognostic value of minimal residual disease in acute lymphoblastic leukemia in childhood. *Lancet* 352:1731, 2006.
- Weinberg RA:** How cancer arises. *Scientific American* 275: 62, 1996.
- Wheless LL, Liblit RL and Koss LG:** Flow cytometric DNA analysis of human solid tumors: a review of the interpretation of DNA histograms. *Hum Pathol* 22: 1085, 1991.
- Yoshimoto Y:** Cancer risk among children of atomic bomb survivors. *sJAMA*; 264-596, 1990.