

CURRICULUM VITAE

Patrick Gibson Beatty, MD Ph.D.

EDUCATION:

Johns Hopkins University, Baltimore MD, BA, 1970
University of Chicago School of Medicine, IL, Ph.D., 1975
University of Chicago School of Medicine, IL, M.D., 1976

PROFESSIONAL CAREER:

1976-1979 Intern and Resident in Medicine, Vanderbilt University Hospitals, Nashville, Tennessee
1979-1981 Fellow in Medical Oncology, University of Washington Hospitals, Seattle, Washington
1981-1983 Acting Instructor in Medical Oncology, University of Washington Medical School, Seattle, Washington
1984-1989 Assistant Professor of Medicine, University of Washington Medical School, Seattle, Washington
1984-1990 Assistant Director, Histocompatibility Laboratory, Puget Sound Blood Center and Fred Hutchinson Cancer Research Center, Seattle, Washington
1989-1990 Associate Professor of Medicine, University of Washington Medical School, Seattle, Washington
1990-2001 Professor of Medicine, Director of the Blood and Marrow Transplantation Program, University of Utah Medical School, Salt Lake City, Utah
2001-Present Montana Cancer Specialists, 500 W Broadway, Box 7877, Missoula, Montana 59807-7877
2001-Present Affiliate Faculty, University of Montana

ORGANIZATIONS:

1976- American Medical Association
American Society for Histocompatibility and Immunogenetics (ASHI)
American Association of Immunologists
American Society of Hematology (ASH)
The Transplantation Society
American Society of Blood and Marrow Transplant
1987-1990 Executive Committee & Board of Directors, National Marrow Donor Program
1989-1992 Councilor, ASHI
1992-1995 Blood Diseases and Resources Advisory Committee, NHLBI
1995-1999 Vice President, president-elect, President, Past-President ASHI
1995-1997 Chair, Histocompatibility Committee, National Marrow Donor Program
1996-1998 Member, Public Information and Governmental Affairs Committee, ASH
1997-2000 Hematology/Oncology Programs Reviewer, Accred Council for Grad Med Ed
1997- Chair, DSMB, NHLBI Sponsored Cord Blood Trial
1997-1999 Board of Directors, United Network for Organ Sharing
1998-2000 Western Association of Physicians

1999- Board of Directors, National Marrow Donor Program
1999-2002 Board of Directors, Foundation for Accreditation of Hematopoietic Cell Therapy
2002- Chair, Protocol Review Committee, BMT Clinical Trials Network, NHLBI

CERTIFICATIONS AND AWARDS:

1972, 1976, 1977 National Board of Medical Examiners Parts I, II, III
1980 Board Certified, Internal Medicine
1985 Board Certified, Medical Oncology
1981-1984 American Cancer Society Junior Faculty Clinical Fellowship
1989 ASHI Scholar
1993-1998 Listed in "Best Doctors in America" 1st- 4th Editions
1998 "Sword of Hope" Award, Utah Chapter, American Cancer Society

LICENSURE:

State of Washington
State of Utah
State of Montana

PUBLICATIONS

1. Beatty PG, Kim BS, Rowley DA, Coppleson LW: Antibody against the antigen receptor of a plasmacytoma prolongs survival of mice bearing the tumor. *J Immunol* 116:1391, 1976
2. Loeb GE, Marks WB, Beatty PG: Analysis and microelectronic design of tubular electrode arrays intended for chronic, multiple single unit recording from captured nerve fibers. *Med and Biol Eng & Comput* 15:195-201, 1977
3. Beatty PG, Oldham RK, Greco FA: Bone marrow transplantation 1979. *J Tenn Med Assoc* 72:361-364, 1979
4. Beatty PG, Oates JA, Oldham RK: Renal cell carcinoma metastatic to a pheochromocytoma. *J Urol* 122:544-545, 1979
5. Fer MF, Beatty PG, Richardson RL, Greco FA: Combination chemotherapy of malignant mesothelioma with cyclophosphamide, adriamycin and vincristine. *Cancer Chemother Pharmacol* 4:135, 1980
6. Beatty PG, Henney CS: The Induction and Assay of Human Cytotoxic T-Lymphocytes in vitro. In: *AACT Laboratory Manual*. AA Zachary and W Braun (eds.), AACT, (New York), IV-4-1 - IV-4-17, 1981.
7. Martin PJ, Longton G, Ledbetter JA, Newman W, Braun M, Beatty PG, Hansen JA: Identification and functional characterization of two distinct epitopes on the human T cell surface protein T p50. *J Immunol* 131:180-185, 1983
8. Hansen JA, Clift RA, Beatty PG, Mickelson EM, Nisperos B, Martin PJ, Thomas ED: Marrow transplantation from donors other than HLA genotypically identical siblings. In: *Recent Advances in Bone Marrow Transplantation, UCLA Symposia on Molecular and Cellular Biology, New Series Vol VII*. RP Gale (ed.), Alan R. Liss, Inc, New York, NY, pp 739-756, 1983

9. Beatty PG, Ledbetter JA, Martin PJ, Price TH, Hansen JA: Definition of a common leukocyte cell surface antigen (Lp95-I50) associated with diverse cell-mediated immune functions. *J Immunol* 131(6):2913-2918, 1983
10. Fast LD, Beatty PG, Hansen JA, Newman W: T cell nature and heterogeneity of recognition structures of human natural killer (NK) cells. *J Immunol* 131:2404-2410, 1983
11. Martin PJ, Ledbetter JA, Clark EA, Beatty PG, Hansen JA: Epitope mapping of the human surface suppressor/cytotoxic T cell molecule Tp32. *J Immunol* 132:759-765, 1984
12. Beatty PG, Ochs HD, Harlan JM, Price TH, Rosen H, Taylor RF, Hansen JA, Klebanoff SJ: Absence of monoclonal antibody-defined protein complex in a boy with abnormal leukocyte function. *Lancet* 1:535-537, 1984
13. Hansen JA, Beatty PG, Clift RA, Mickelson EM, Nisperos B, Thomas ED: The HLA system in clinical bone marrow transplantation. In: *Advances in Immunology: Blood Cell Antigens and Bone Marrow*. J McCullough, SG Sandler (eds.), Alan R. Liss, Inc., New York, NY, pp 299-317, 1984
14. Hansen JA, Martin PJ, Beatty PG, Clark EA, Ledbetter JA: Human T lymphocyte cell surface molecules defined by the workshop monoclonal antibodies ("T cell protocol"). In: *Leukocyte Typing: Human Leukocyte Markers Detected by Monoclonal Antibodies*. A Bernard, L Boumsell, J Dausset, C Milstein, SF Schlossman (eds.), Springer-Verlag, New York, NY, pp 195-212, 1984
15. Mickelson EM, Beatty PG, Storb R, Hansen JA: Immune responses in an untransfused patient with aplastic anemia: Analysis of cytolytic and proliferative T cell clones. *Human Immunol* 10: 189-201, 1984
16. Irle C, Beatty PG, Mickelson EM, Hansen JA: Change in functional phenotype of cloned human alloreactive cytolytic T cells. *Human Immunol* 11:183-191, 1984
17. Beatty PG, Henney CS, Mickelson E: The induction and assay of human cytotoxic T lymphocytes in vitro. In: *Cellular Immunology 1983 Topics in Histocompatibility Series*, ER Heise (ed.), Chapter 4, AACHT, New York, NY, pp 52-65, 1984
18. Beatty PG, Clift R, Hansen JA, Mickelson EM, Nisperos B, Flournoy N, Thomas ED: Marrow transplantation from donors other than HLA genotypically identical siblings: The immunogenetics of acute graft-versus-host disease. In: *Histocompatibility Testing, 1984*. ED Albert, MP Bauer, WR Mayr (eds.), Springer-Verlag, New York, NY, pp 670-671, 1984
19. Klebanoff SJ, Beatty PG, Schreiber RD, Ochs HD, Waltersdorph AM: Effect of antibodies directed against complement receptors on phagocytosis by polymorphonuclear leukocytes: Use of iodination as a convenient measure of phagocytosis. *J Immunol* 134:1153-1159, 1985
20. Clift RA, Beatty PG, Thomas ED, Buckner CD, Weiden P, McGuffin R for the Seattle Marrow Transplant Team: Marrow transplantation from mismatched donors for the treatment of malignancy. *Trans Proc* 17:445-446, 1985
21. Irle C, Beatty PG, Mickelson E, Thomas ED, Hansen JA: Anti-major histocompatibility complex alloreactive cytotoxic T cell clones occurring in vivo, following HLA identical sibling bone marrow transplantation. *Trans Proc* 17:772-773, 1985
22. Harlan JM, Killen PD, Senecal FM, Schwartz BR, Yee EK, Taylor RF, Beatty PG, Price TH, Ochs HD: The role of neutrophil membrane glycoprotein GP-150 in the neutrophil adherence to endothelium in vitro. *Blood* 66:167-178, 1985
23. Ledbetter JA, Rose LM, Spooner CE, Beatty PG, Martin PJ, Clark EA: Antibodies to common

leucocyte antigen p220 influence human T cell proliferation by modifying IL-2 receptor expression. *J Immunol* 135:1819-1825, 1985

24. Schwartz BR, Ochs HD, Beatty PG, Harlan JM: A monoclonal antibody defined membrane antigen complex is required for neutrophil-neutrophil aggregation in vitro. *Blood* 65:1553-1556, 1985
25. Ledbetter JA, Martin PJ, Spooner CE, Wofsy D, Tsu TT, Beatty PG, Gladstone P: Antibodies to Tp67 and Tp44 augment and sustain proliferative responses of activated T cells. *J Immunol* 135:2331-2336, 1985
26. Beatty PG, Clift RA, Mickelson EM, Nisperos B, Flournoy N, Martin PJ, Sanders JE, Stewart P, Buckner CD, Storb R, Thomas ED, Hansen JA: Marrow transplantation from related donors other than HLA identical siblings. *NEJM* 313(13):765-771, 1985
27. Irle C, Beatty PG, Mickelson E, Thomas ED, Hansen JA: Alloreactive T cell responses between HLA identical siblings. *Transplantation* 40:329-333, 1985
28. Patarroyo M, Beatty PG, Fabre JW, Gahmberg CG: Identification of a cell surface protein complex mediating phorbol ester-induced adhesion (binding) among human mononuclear leukocytes. *Scand J Immunol* 22:171-182, 1985
29. Wallis WJ, Beatty PG, Ochs HD, Harlan JM: Human monocyte adherence to cultured vascular endothelium: Monoclonal antibody-defined mechanisms. *J Immunol* 135:2323-2330, 1985
30. Patarroyo M, Beatty PG, Serhan CN, Gahmberg CG: Identification of a cell surface glycoprotein mediating adhesion in human granulocytes. *Scand J Immunol* 22:619-631, 1985
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32. Martin PJ, Ledbetter JA, Beatty PG, Clark EA, Hansen JA: Studies of T cell proliferation induced by monoclonal antibodies of the Second International Workshop. In: *Leukocyte Typing*. EL Reinherz, BF Haynes, LM Nadler, ID Bernstein (eds.), Springer-Verlag, New York, NY, pp 147-156, 1985
33. Yamada H, Martin PJ, Bean MA, Braun MP, Beatty PG, Sadamoto K, Hansen JA: Monoclonal antibody 9.3 and anti-CD11 antibodies define reciprocal subsets of lymphocytes. *Eur J Immunol* 15:1164-1168, 1985
34. Diener AM, Beatty PG, Ochs HD, Harlan JM: The role of neutrophil membrane glycoprotein 150 (GP-150) in neutrophil-mediated endothelial cell injury in vitro. *J Immunol* 135:537-543, 1985
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III. Transfusion 26:113-115, 1986

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43. Deeg HJ, Lum LG, Sanders J, Levy GJ, Sullivan KM, Beatty PG, Thomas ED, Storb R: Severe aplastic anemia associated with chronic mucocutaneous candidiasis: Immunologic and hematologic reconstitution after allogeneic bone marrow transplantation. *Transplantation* 41(5):585-586, 1986
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45. June CH, Beatty PG, Shulman HM, Rinaldi MG: Disseminated fusarium moniliforme infection after allogeneic transplantation. *So Med J* 79:513-515, 1986
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47. Pohlman TH, Stanness KA, Beatty PG, Ochs HD, Harlan JM: An endothelial cell surface factor(s) induced in vitro by lipopolysaccharide, interleukin 1, and tumor necrosis factor-alpha increases neutrophil adherence by a CDw18-dependent mechanism. *J Immunol* 136(12):4548-4553, 1986
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49. Patarroyo M, Beatty PG, Nilsson K, Gahmberg CG: Identification of a cell surface glycoprotein mediating cell adhesion in EBV immortalized normal B cells. *Int J Cancer* 38:539-547, 1986
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GP90, leukocyte adhesion glycoprotein to human chromosome 21. *Somatic Cell Mol Genet* 12(3):297-302, 1986

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54. Hansen JA, Beatty PG, Anasetti C, Clift RA, Martin PJ, Sanders J, Sullivan K, Buckner CD, Storb R, Thomas ED: Treatment of leukemia by marrow transplantation from donors other than HLA genotypically identical siblings. In: *Progress in Bone Marrow Transplantation UCLA symposia on molecular and cellular biology.* New series, Vol 53. RP Gale and R Champlin (eds.), Alan R. Liss, Inc., New York, NY, pp 667-675, 1987

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57. Witherspoon RP, Navari R, Storb R, Sullivan KM, Doney K, Beatty P, Lum LG, Thomas ED: Treatment of marrow graft recipients with thymopentin. *Bone Marrow Transplant* 1:365-371, 1987

58. Lindqvist C, Patarroyo M, Beatty PG, Wigzell H: A monoclonal antibody inhibiting leucocyte adhesion blocks induction of IL-2 production but not IL-2 receptor expression. *Immunology* 60:579-584, 1987

59. Storb R, Weiden PL, Sullivan KM, Appelbaum FR, Beatty P, Buckner CD, Clift RA, Doney KC, Hansen J, Martin PJ, Sanders JE, Stewart P, Witherspoon RP, Thomas ED: Second marrow transplants in patients with aplastic anemia rejecting the first graft: Use of a conditioning regimen including cyclophosphamide and antithymocyte globulin. *Blood* 70(1):116-121, 1987

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61. Axberg I, Ramstedt U, Patarroyo M, Beatty P, Wigzell H: Inhibition of natural killer cell cytotoxicity by a monoclonal antibody directed against adhesion-mediating protein gp 90 (CD18). *Scand J Immunol* 26:547-554, 1987

62. Price TH, Beatty PG, Corpuz SR: In vivo inhibition of neutrophil function in the rabbit using monoclonal antibody to CD18. *J Immunol* 139(12):4174-4177, 1987

63. Beatty PG, Witherspoon RP, Sullivan KM, Martin PJ, Sanders JE, Appelbaum FR, Buckner CD, Storb R, Thomas ED: Long term results of bone marrow transplantation: The Seattle experience. In:

Transplantation and Clinical Immunology, Vol. XIX, The Long-Term Transplant Patient. Proceedings of the 19th International Course on Transplantation and Clinical Immunology, Lyon, 18-20, May, 1987. Touraine JL, Traeger J, Betuel H, Dubernard JM, Revillard JP, and Triau R. (eds.). New York, NY, Excerpta Medica, Amsterdam-New York-Oxford, pp 203-216, 1987

64. Hickstein DD, Smith A, Fisher W, Beatty PG, Schwartz BR, Harlan JM, Root RK Locksley RM: Expression of leukocyte adherence-related glycoproteins during differentiation of HL-60 promyelocytic leukemia cells. *J Immunol* 138(2):513-519, 1987

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Patarroyo M, Prieto J, Beatty PG, Clark E, Gahmberg CG: Adhesion-mediating molecules of human monocytes. *Cell Immunol* 113:278-289, 1988

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