CURRICULUM VITAE

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Election		

Education:

1972	A.B. (summa cum laude), Princeton University, Princeton, NJ
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1976 M.D. Harvard Medical School, Boston, MA

Postdoctoral Training:

- 1976-1978 Medical House Officer (Intern) and Assistant Resident Physician, Department of Medicine, Peter Bent Brigham Hospital, Boston, MA
- 1976-1981 Fellow in Medicine, Harvard Medical School
- 1978-1981 Fellow in Hematology-Medical Oncology, Peter Bent Brigham Hospital (Brigham and Women's Hospital), Boston, MA
- 1981-1984 Post-Doctoral Fellow, Department of Pathology, Harvard Medical School

Certification and State Licensure:

1979	Diplomate, Americ	an Board of Internal	l Medicine, Ce	ertificate No. 07338	2

- 1980 Diplomate, American Board of Internal Medicine, Subspecialty Board in Hematology
- 1981 Diplomate, American Board of Internal Medicine, Subspecialty Board in Medical Oncology
- 1999 Diplomate, American Board of Pathology, Subspecialty Board in Hematopathology
- 1977 Physician, Commonwealth of Massachusetts, License Registration No. 42028 (inactive)
- 1980 Physician, State of New York, Registration No. 144382 (inactive)
- 1988 Physician, State of Connecticut, License Registration No. 029372

Academic Appointments:

- 1981-1984 Instructor in Medicine, Harvard Medical School, Boston, MA
- 1985-1988 Assistant Professor of Medicine, Harvard Medical School
- 1989-1993 Associate Professor of Laboratory Medicine, Internal Medicine and Pediatrics, Yale University School of Medicine, New Haven, CT
- 1993-1995 Associate Professor (with tenure) of Laboratory Medicine, Internal Medicine and Pediatrics, Yale
- 1996-present Professor of Laboratory Medicine, Internal Medicine and Pediatrics, Yale
- 1996-2004 Member, Bioengineering Program, Yale University
- 1997 Acting Chair, Department of Laboratory Medicine, Yale (during Chair's sabbatical)
- 1997-2006 Vice Chair, Department of Laboratory Medicine, Yale
- 2001-present Director, Immunohematology Post-Doctoral Research T32 Training Program, Yale
- 2001-present Director, Hematopathology Fellowship, Departments of Pathology and Laboratory Medicine, Yale-New Haven Hospital and Yale University School of Medicine
- 2006-present Chair, Department of Laboratory Medicine, Yale
- 2012-present Professor of Biomedical Engineering

Hospital Appointments:

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1980-1988	Associate in Medicine (Staff Physician), Brigham and Women's Hospital, Boston, MA
1981-1988	Associate in Medicine (Attending in Hematology-Oncology), Children's Hospital Medical Center,
	Boston, MA and Associate Physician (Attending), Dana-Farber Cancer Institute, Boston, MA
1982-1985	Associate Medical Director, Bone Marrow Transplantation Immunology Laboratory, Children's Hospital
	and Dana-Farber Cancer Center, Boston, MA
1983-1988	Attending Physician, Department of Medicine, Veterans Administration Medical Centers at West
	Roxbury and Brockton, MA
1984-1988	Hematology Clinic Co-Director, Hematology Division, Brigham and Women's Hospital
1986-1988	Associate Medical Director, Hematology & Flow Cytometry Laboratories, Brigham & Women's Hospital
1988-present	Attending Physician, Departments of Laboratory Medicine, Internal Medicine (Hematology; Oncology;
	Stem Cell Transplant) and Pediatrics, Yale-New Haven Hospital, New Haven, CT
1989-present	Associate Director, Hematology Laboratory, Yale-New Haven Hospital
1991-present	Attending Physician, Department of Pathology & Laboratory Medicine, and Department of Medicine,
	Veterans Administration Connecticut Medical Center, West Haven, CT
1991-present	Director, Immunology and Flow Cytometry Laboratories, Yale-New Haven Hospital
1995-present	Director, Molecular Diagnostics Laboratory, Yale-New Haven Hospital
1997-2006	Assistant Chief of Laboratory Medicine Service, Yale-New Haven Hospital
1998-2010	Teaching Attending Physician, Department of Medicine, Bridgeport Hospital, Bridgeport, CT
2000-present	Attending Pathologist, Dept of Pathology & Laboratory Medicine, Bridgeport Hospital
2006-present	Chief, Department of Laboratory Medicine, Yale New Haven Hospital
2010-present	Director, Clinical Laboratories at Smilow Cancer Centers
Honors and Av	wards:
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George A. Howe Prize in Analytical Chemistry, Princeton University 1972 1972 Phi Beta Kappa 1972 A.B. Degree Summa Cum Laude, Princeton University Sigma Xi 1972 1976 Alpha Omega Alpha Junior Clinical Faculty Fellowship, American Cancer Society 1981-1984 1982-1989 Fellow and Special Fellow, Leukemia Society of America Fellow, American College of Physicians 1989 Scholar, Leukemia Society of America 1989-1994 DeCamp Lecturer on Biomedical Ethics, Princeton University 1992 1993 Stohlman Scholar, Leukemia Society of America 1996 National Blood Foundation Scholar Master of Arts degree *privatim*, Yale University (honorary) 1997 1999 Fellow, College of American Pathologists Visiting Professorships: Albert Einstein College of Medicine, Harvard Medical School / Brigham & 2008-present Women's Hospital, University of Pennsylvania, Pennsylvania State University, Washington University, University of Washington, Columbia University 2007-2008 President (elected), Academy of Clinical Laboratory Physicians and Scientists Evans Award for Outstanding Contributions to Laboratory Medicine, Academy of Clinical Laboratory 2010 Physicians and Scientists 2010-2013 Chair (elected), Research Committee, Association of Pathology Chairs 2011 Teaching Award, Yale Residency Program

Committees/Boards:

National:

1989-1991 Chair, American Society of Hematology Education Program on Bone Marrow Transplantation
1989 Chair, FASEB Summer Research Conference on Cellular and Molecular Studies in Bone Marrow Transplantation

1992-1997	Member, National Institutes of Health Recombinant DNA Advisory Committee (RAC)
1992-1995	Member, American College of Physicians, Education Subcommittee on Hematology for MKSAP X
1993-1997	Chair, Working Group on Data Management, NIH Recombinant DNA Advisory Committee
1995-1999	Member, Scientific Subcommittee on Clinical Laboratory Hematology, American Society of
1770 1777	Hematology
1997-1999	Member, Medical Coding and Reimbursements Committee, American Association of Blood Banks
1998-2002	Member, National Space Biomedical Research Institute Research Board
1999-2001	Member and Co-Chair, American Heart Association Grant Review Study Section on Cell Biology,
1777-2001	Member and Co-chair, American Heart Association Grant Review Study Section on Cen Diology, Metabolism, Immunology & Microbiology Northeast 4
1998-2002	Mender, American College of Physicians—ASIM Continuing Education Faculty
1998-2002	Member, Veteran's Administration Merit Review Board Ad Hoc Reviewer
2000-2003	
	Member, Executive Committee, Academy of Clinical Laboratory Physicians and Scientists
1994-present	College of American Pathologists Inspection Team Member
2002-2004	Chair, American Heart Association Study Section on Cell Biology, Metabolism, Immunology &
0000 0006	Microbiology, Northeast 4
2002-2006	Consultant, Nevada Cancer Institute
2002-2004	Member, NIH Study Section, Surgery and Bioengineering
2003-2005	Consulting Reviewer, Medical Research Council, Great Britain
2003-2005	Temporary Member, NIH Special Emphasis Panel on Hematology Training Programs (T32) and on
	Mentored Clinical Scientist Development Awards
2003-2007	Co-Chair, American Society of Clinical Pathology Resident In-Service Examination Committee
2003-2006	Chair, Clinical Pathology Curriculum Development Committee, Academy of Clinical Laboratory Physicians and Scientists (ACLPS)
2004-2006	Member, NCI Special Emphasis Panel, Innovative Cancer Diagnostics
2004-2010	Co-Chair and Member, American Heart Association National Study Section on Bioengineering and
	Biotechnology
2004-2007	Member, American Heart Association Northeast Consortium Peer Review Steering Committee
2006-2011	Member, NIH NHLBI Study Section on Institutional Training Mechanisms
2007	Member, NIH Special Emphasis Panel Transfusion/Hemostasis Clinical Trials Network
2007-2013	Member, Association of Pathology Chairs Undergraduate Medical Education Committee
2009-2011	Member, American Heart Association Scientific Task Force
2009-2013	Member, Scientific Advisory Board, Generation Health, Inc
2009-2016	Member, Centers for Disease Control (CDC) Clinical Laboratory Integration into Healthcare
2007 2010	Collaborative (CLIHC)
	Chair, CLIHC Subcommittee on Laboratory Medicine Education
2010-2012	Member, Alliance for Academic Internal Medicine Physician Scientist Initiative
2010-2012	Member, College of American Pathologists Transformation Steering Group
2010-2013	Chair, Association of Pathology Chairs Ad Hoc Committee on Physician-Scientists
2010-2013	Chair (elected), Research Committee, Association of Pathology Chairs
	Member, Grant Review for Pennsylvania Dept of Health Awards
2012-present	· ·
2013-present	Member, Clinical Advisory Board, Avalon Health Services, LLC
2013-present	Member, Practice & Management Committee, Research Committee, Advocacy Committee, Association
2012 12 14	of Pathology Chairs Chair NHL NHL PLAd Has Study Section on Denian Heresteleon (Transfusion Training Machanisma
2012,'13,'14	Chair, NIH NHLBI Ad Hoc Study Section on Benign Hematology / Transfusion Training Mechanisms
2016	Chair, NIH NHLBI K12 Ad Hoc Study Section
2016	Member, NIH Ad Hoc Committee on Research in Residency
Regional:	

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1988-1994	Member, Advisory Committee, Aplastic Anemia Foundation, New England Region
1991-1995	Member, Board of Trustees, Leukemia Society of America, Central Connecticut Chapter
1995-2000	Member, Medical Advisory Board, Leukemia Society of America, Central Connecticut Chapter
2008-2009	Member, Pathology Chairman Search Committee, Hospital of St Raphael, New Haven, CT

2001-2012 Member, Board of Trustees, Richard D. Frisbee III Foundation

Local (2005-present only)

1995-2012	Member, Yale University Biosafety Committee (IBC) Human Gene Therapy Subcommittee
2006-2007	Chair, Yale Medical School LCME Committee on Governance

- 2007-2008 Member, Yale University Budget and Finance Committee
- 2008-2012 Member, Dean's Committee on Sexual Harassment
- 2009-2011 Chair, Yale Medical Group Finance Committee
- 2010-2011 Chair, Search Committee for Chair of Yale Pediatrics
- 2013-2016 Chair, Search Committee for Chair of Yale Internal Medicine
- 2014-present Chair, Clinical Research Technology Committee, Yale
- 2014-2016 Chair, Education Committee, YSM (LCME Re-accrediation)
- 2014-2016 Member, LCME Institutional Self-Study Task Force
- 2014-2016 Member, Gender Equity Task Force, Yale School of Medicine
- 2016-present Chair, Clinician-Educator Track Task Force

Principal Editorial Responsibilities:

2003-present Editorial Board, Transfusion

2015-present Editorial Board, Academic Pathology

Community Service Activities

2001-2003 Vice-Chair, Board of Trustees, Our Lady of Mercy School, Madison, CT

1995-present Honorable Order of Kentucky Colonels

2001-2012 Member, Board of Trustees, Richard D. Frisbee III Foundation, New Canaan, CT

BIBLIOGRAPHY

- 1. Adelman BA, Bentman A, Rosenthal P, Smith BR, Bridges KR, Holmes W. 1979. Treatment of Aspergillosis in Leukemia. Ann Int Med 91:323-324.
- 2. Ault KA, Smith BR, Holmberg LA. 1980. Proliferation of T Gamma Cells with Natural Killer Activity in Patients with Neutropenia (letter). N Engl J Med 303:881-882.
- 3. Smith BR, Ault KA. 1981. Increase of Surface Ia-like Antigen Expression on Human Monocytes Independent of Antigenic Stimuli. J Immunol 127:2020-2027.
- 4. Bloch DB, Smith BR, Ault KA. 1983. Cells-on-Microspheres: A New Technique for Flow Cytometric Analysis of Adherent Cells. Cytometry 3:449-452.
- 5. Smith BR, Robert NJ, Ault KA. 1983. In Waldenstrom's Macroglobulinemia the Quantity of Detectable Circulating Monoclonal B Lymphocytes Correlates with Clinical Course. Blood 61:911-914.
- 6. Rappeport JM, Smith BR, Parkman RP, Rosen FS. 1983. Application of Bone Marrow Transplantation in Genetic Diseases. Clin Hematol 12:755-773.
- 7. Parkman RP, Rappeport JM, Hellman S, Lipton J, Smith BR, Geha R, Nathan DG. 1984. Busulfan and Total Body Irradiation as Anti-hematopoietic Stem Cell Agents in the Preparation of Patients with Congenital Bone Marrow Disorders for Allogeneic Bone Marrow Transplantation. Blood 64:852-857.
- 8. Smith BR, Weinberg DS, Robert NJ, Towle M, Luther E, Pinkus GS, Ault KA. 1984. Circulating Monoclonal B Lymphocytes in Non-Hodgkin's Lymphoma. N Engl J Med 311:1476-1481.

- 9. First L, Smith BR, Lipton J, Nathan DG, Parkman RP, Rappeport JM. 1985. Isolated Thrombocytopenia Following Allogeneic Bone Marrow Transplantation: Existence of Transient and Chronic Thrombocytopenia Syndromes. Blood 65:368-374.
- 10. Ginsburg D, Antin JH, Smith BR, Orkin SH, Rappeport JM. 1985. Origin of Cell Populations Following Bone Marrow Transplantation: Analysis Using DNA Sequence Polymorphisms. J Clin Invest 75:596-603.
- Smith BR, Parkman RP, Nathan DG, Lipton J, Rappeport JM. 1985. Efficacy of Short Course (Four Dose) Methotrexate Following Bone Marrow Transplantation for Prevention of Graft versus Host Disease. Transplantation 39:326-329.
- 12. Smith BR, Rosenthal DS, Ault KA. 1985. Natural Killer Lymphocytes in Hairy Cell Leukemia: Presence of Phenotypically Identifiable Cells with Defective Functional Activity. Exptl Hematol 13:189-193.
- 13. Karp DD, Parker LM, Binder N, Tantravehi R, Smith BR, Erwin T, Canellos GP. 1985. Treatment of Blastic Transformation of Chronic Granulocytic Leukemia using High Dose BCNU and Cryopreserved Autologous Peripheral Blood Stem Cells. Am J Hematol 18:243-249.
- 14. Murphy GF, Merot Y, Tong AKF, Smith BR, Mihm MC. 1985. Depletion and Repopulation of Epidermal Dendritic Cells After Allogeneic Bone Marrow Transplantation in Humans. J Invest Dermatol 84:210-214.
- 15. Ault KA, Antin JH, Ginsburg D, Orkin SH, Rappeport JM, Keohan ML, Martin P, Smith BR. 1985. Phenotype of Recovering Lymphoid Cell Populations Following Marrow Transplantation. J Exp Med 161:1483-1502.
- 16. Smith BR, Parkman RP, Levey R, Nathan DG, Rappeport JM. 1985. Efficacy of a Cyclophosphamide-Procarbazine-AntiThymocyte Serum Regimen for Prevention of Graft Rejection following Marrow Transplantation of Transfused Patients with Aplastic Anemia. Transplantation 39:671-673.
- 17. Bridges KB and Smith BR. 1985. Discordance of Transferrin Receptor Expression and Susceptibility to Lysis by Natural Killer Cells. J Clin Invest 76:913-918.
- Antin JH, Ginsburg D, Smith BR, Nathan DG, Orkin SH, Rappeport JM. 1985. Bone Marrow Transplantation for Paroxysmal Nocturnal Hemoglobinuria: Eradication of the PNH Clone and Documentation of Complete Lympho-Hematopoietic Engraftment. Blood 66:1247-1250.
- Louie EK, Ault KA, Smith BR, Hardman EL, Quesenberry PJ. 1985. IgG-mediated Haemolysis Masquerading as Cold Agglutinin Induced Anaemia complicating severe infection with Mycoplasma Pneumonia. Scand J Haematol 35:264-269.
- Smith BR, Ault KA. 1985. Circulating Monoclonal B Lymphocytes in Non-Hodgkin's Lymphoma. In: Hickey RC (ed) "1985 Yearbook of Cancer" (Chicago: Yearbook Medical Publishers) pp. 142-5.
- 21. Antin JH, Smith BR, Ewenstein BM, Arceci RJ, Lipton JM, Page PL, Rappeport JM. 1986. HTLV III Infection after Bone Marrow Transplantation. Blood 67:160-163.
- 22. Rozans MK, Smith BR, Burakoff SJ, Miller RA. 1986. Long-lasting Deficit of Functional T Cell Precursors in Human Bone Marrow Transplant Recipients Revealed by Limiting Dilution Methods. J Immunol 136:4040-4048.
- 23. Patenaude AF, Rappeport JM, Smith BR. 1986. The Physician's Influence on Informed Consent for Bone Marrow Transplantation. Theoret Medicine 7:165-179.

- 24. Fox DA, Faix JD, Coblyn J, Fraiser P, Smith BR, Weinblatt ME. 1986. Thrombotic Thrombocytopenic Purpura and Systemic Lupus Erythematosus. Ann Rheum Dis 45:319-322.
- 25. Rozans MK, Smith BR, Emerson SE, Crimmins M, Laurent G, Reichert T, Burakoff SJ, Miller RA. 1986. Functional Assessment of T Cell Depletion from Marrow, Prior to Therapeutic Transplant, Using Limiting Dilution Culture Methods. Transplantation 42:380-387.
- 26. Fox DA and Smith BR. 1986. Evidence for Oligoclonal B Cell Expansion in the Peripheral Blood of Patients with Rheumatoid Arthritis. Ann Rheum Dis 45:991-995.
- 27. Rappeport JM, Wienik P, Buckner CD, Smith BR. 1986. "The Role of Bone Marrow Transplantation in Acute Nonlymphocytic Leukemia". In: "Hematology 1986: The Education Program of the American Society of Hematology" (ASH:1986). pp 57-59.
- 28. Smith BR, Rappeport JM, Burakoff SJ, Ault KA. 1987. Clinical Correlates of Unusual Circulating Lymphocytes appearing post Marrow Transplantation. In: Gale RP, Champlin R (eds.). 1987. "Progress in Bone Marrow Transplantation" (UCLA Symposia on Molecular and Cellular Biology, New Series, Volume 53) (New York: Alan R. Liss, Inc.). pp.659-663.
- 29. Mentzer SJ, Smith BR, Barbosa JA, Crimmins MAV, Herrmann SH, Burakoff SJ. 1987. CTL Adhesion and Antigen Recognition are Discrete Steps in the Human CTL-Target Cell Interaction. J Immunol 138:1325-1330.
- Antin JH, Ault KA, Rappeport JM, Smith BR. 1987. B Lymphocyte Reconstitution After Human Bone Marrow Transplantation: The Leu-1 Antigen Defines a Functionally Distinct Population of B Lymphocytes. J Clin Invest 80:325-332.
- 31. Daley JP, Rozans MK, Smith BR, Burakoff SJ, Rappeport JM, Miller RA. 1987. Retarded Recovery of Functional T Cell Frequencies in Patients Transplanted with T-Cell Depleted Bone Marrow. Blood 70:960-964.
- 32. Smith BR, Burakoff SJ, Weinstein H, Antin JH, Guinan E, Niemeyer C, Reichert T, Tarbell N, Rappeport JM. 1987. Efficacy of ex vivo anti-Leu1 T cell depletion in high GVHD risk bone marrow transplantation. In: Gee AP, Gross S (eds) "Proceedings of the First International Workshop on Bone Marrow Purging" Bone Marrow Transplantation 2 (suppl 2): 144.
- 33. Bierer BE, Nishimura Y, Burakoff SJ, Smith BR. 1988. Phenotypic and Functional Characterization of Human Cytolytic T Cells Lacking Expression of CD5. J Clin Invest 81:1390-1397.
- Antin JH, Smith BR, Holmes W, Rosenthal DS. 1988. Phase I/II Study of Recombinant Human Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) in Aplastic Anemia and Myelodysplastic Syndrome. Blood 72:705-713.
- 35. Guinan EC, Smith BR, Davies P, Pober JS. 1988. Cytoplasmic Transfer Between Endothelium and Lymphocytes: Quantitation by Flow Cytometry. Am J Pathol 132:406-409.
- 36. Smith BR. 1988. Flow Cytometric Analysis of Circulating Lymphocytes Following Human Marrow Transplantation. Cytometry 9:48-52.
- 37. Strair RK, Towle M, Smith BR. 1988. Recombinant Retroviruses Encoding Cell Surface Antigens as Selectable Markers. J Virol 62:4756-4759.

- Bierer BE, Emerson SG, Antin J, Maziarz R, Rappeport JM, Smith BR, Burakoff SJ. 1988. Regulation of Cytotoxic T Lymphocyte Mediated Graft Rejection Following Bone Marrow Transplantation. Transplantation 46:835-839.
- 39. Antin JH, Smith BR, Holmes W, Rosenthal DS. 1988. Phase I/II Study of Recombinant Human Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) in Bone Marrow Failure. Behring Inst Mitt 83:149-153.
- 40. Schafer AI, Smith BR. 1988. "Case Studies in Hematology". In: Braunwald E, Fanta CH (ed.) "Intensive Review of Internal Medicine, 3rd Edition" (Boston: Brigham-Beth Israel Medical Group), pp.580-589.
- 41. Bierer BE, Burakoff SJ, Smith BR. 1989. A Large Proportion of T Lymphocytes Lack CD5 Expression Following Bone Marrow Transplantation. Blood 73:1359-1366.
- 42. Walz G, Zanker B, Wieder K, Hadro E, Moscovitch-Lopatin M, Smith BR, Strom TB. 1989. Similar Effects of Cyclosporine and Verapamil on Lymphokine, Interleukin-2 Receptor, and Proto-Oncogene Expression. Transplantation 47:331-334.
- 43. Ibrahim RE, Teich D, Smith BR, Antin JH, Olivier AP, Weinberg DS. 1989. Flow Cytometric Surface Light Chain Analysis of Lymphocyte-Rich Effusions: A Useful Adjunct to Cytologic Diagnosis. Cancer 63:2024-2029.
- 44. Imagawa S, Smith BR, Palmer-Crocker R, Bunn HF. 1989. The Effect of Recombinant Erythropoietin on Intracellular Free Calcium in Erythropoietin Sensitive Cells. Blood 73:1452-1457.
- 45. Guinan EC, Smith BR, Doukas JT, Miller RA, Pober JS. 1989. Vascular Endothelial Cells Enhance T Cell Responses by Markedly Augmenting IL-2 Concentrations. Cellular Immunology 118:166-177.
- 46. Melton LB, Lakkis F, Moscovitch-Lopatin M, Smith BR, Williams JM, Rosoff PM, Strom TB. 1989. Antibody Valence and Induced Signal Transduction: The Role of Antibody Valence in Anti-CD3 Induced Signal Transduction in Isolated Normal T Cells. Clin Immunol Immunopath 50:171-183.
- 47. Wheeler C, Antin JH, Churchill WH, Smith BR, Bubley GJ, Come SE, Rosenthal DS, Rappeport JM, Ault KA, Schnipper LE, Eder PJ. 1989. Escalating Dose Cyclophosphamide, BCNU, and VP-16 with Autologous Bone Marrow Transplantation in Relapsed Hodgkin's and Non-Hodgkin's Lymphoma. In: Dicke KA, Spitzer G, Jagannath S, Evinger-Hodges MJ (eds). "Autologous Bone Marrow Transplantation" (Houston, Univ. of Texas), pp 311-315.
- 48. Mitus AJ, Stein RS, Rappeport JM, Antin JH, Weinstein HJ, Alper CA, Smith BR. 1989. Monoclonal and Oligoclonal Gammopathy After Bone Marrow Transplantation. Blood 74:2764-2768.
- 49. Niemeyer CM, Sieff CA, Smith BR, Ault KA, Nathan DG. 1989. Hematopoiesis <u>In Vitro</u> Co-exists with Natural Killer Lymphocytes. Blood 74:2376-2382.
- 50. Zanker B, Walz G, Wieder KJ, Muscovitch-Lopatin M, Smith BR, Strom TB. 1989. Verapamil Selectively Inhibits Expression of Interleukin 2 Messenger RNA in Mitogen Activated Mononuclear Blood Cells. Transplant Proc 21 (1Pt1): 85-87.
- 51. Smith BR, Armitage JO, McCullough J, O'Reilly RJ. 1989. Bone Marrow Transplantation -Choosing Between Autologous, Unrelated Allogeneic, and Haploidentical Transplants. In: "Hematology, 1989: The Education Program of The American Society of Hematology" (ASH: 1989), pp 81-86.

- 52. Antin JH, Bierer BE, Smith BR, Guinan EC, Provost MM, Ferrara J, Macklis RM, Tarbell NJ, Blythman H, Bouloux C, Ziniti LM, Bogart RE, Burakoff SJ, Weinstein HJ. 1990. Depletion of Bone Marrow T Lymphocytes with an Anti-CD5 Monoclonal Immunotoxin (ST1-Immunotoxin): Effective Prophylaxis for Graft versus Host Disease. In: Gross S, Gee AP, Worthington-White DA (eds). "Bone Marrow Purging and Processing" (New York: Wiley-Liss) Prog Clin Biol Res 333:207-215.
- 53. Wheeler C, Antin JH, Churchill WH, Come SE, Smith BR, Bubley GJ, Rosenthal DS, Rappeport JM, Ault KA, Schnipper LE, Eder JP. 1990. Cyclophosphamide, Carmustine, and Etoposide with Autologous Bone Marrow Transplantation in Refractory Hodgkin's Disease and Non-Hodgkin's Lymphoma: A Dose-Finding Study. J Clin Oncol 8:648-656.
- 54. Strair RK, Towle M, Heald P, Smith BR. 1990. Retroviral Mediated Transfer and Expression of Exogenous Genes in Primary Lymphoid Cells: Assaying for a Viral Transactivator Activity in Normal and Malignant Cells. Blood 76:1201-1208.
- 55. Strair RK, Towle M, Smith BR. 1990. Retroviral Mediated Gene Transfer into Bone Marrow Progenitor Cells: Use of Beta-Galactosidase as a Selectable Marker. Nuc Acids Res 18:4759-62.
- 56. Smith BR. 1990. Regulation of Hematopoiesis. Yale J Med Biol 63:371-380.
- 57. Smith BR. 1990. "Overview of Bone Marrow Transplantation: 1990". In: Kasprisin CA, Snyder EL (eds), "Bone Marrow Transplantation" (Arlington, VA: AABB), pp 1-22.
- 58. Smith BR, Leitman S, Finberg R. 1990. Bone Marrow Transplantation: Diagnosis and Management of GVHD and Acute Infection. In: "Hematology, 1990: The Education Program of the American Society of Hematology" (ASH: 1990), pp 89-95.
- 59. Snower DP, Smith BR, Munz UJ, McPhedran P. 1991. Re-evaluation of the Periodic Acid Schiff (PAS) Stain in Acute Leukemia with Immunophenotype Analysis. Arch Pathol Lab Med 115:346-350.
- 60. Snyder EL, Beardsley DS, Smith BR, Horne W, Johnson R, Wooten T, Napychank PA, Male P, Buchholz DH. 1991. Storage of Platelet Concentrate After High Dose UV-B Irradiation. Transfusion 31:491-496.
- 61. Antin JH, Bierer BE, Smith BR, Ferrara J, Guinan EC, Sieff C, Macklis RM, Tarbell NJ, Lynch E, Reichert T, Blythman H, Bouloux C, Rappeport JM, Burakoff SJ, Weinstein HJ. 1991. Selective Depletion of Bone Marrow T-Lymphocytes with Anti-CD5 Monoclonal Antibodies: Effective Prophylaxis for Graft-versus-Host Disease in Patients with Hematologic Malignancies. Blood 78:2139-2149.
- 62. Rinder CS, Mathew J, Rinder H, Bonan J, Ault K, Smith BR. 1991. Modulation of Platelet Surface Adhesion Receptors During Cardiopulmonary Bypass. Anesthesiology 75:563-570.
- 63. Rinder HM, Bonan J, Rinder CS, Ault KA, Smith BR. 1991. Activated and Unactivated Platelet Adhesion to Monocytes and Neutrophils. Blood 78: 1760-1769.
- 64. Rinder HM, Bonan J, Rinder CS, Ault KA, Smith BR. 1991. Dynamics of Leukocyte-Platelet Adhesion in Whole Blood. Blood 78:1730-1737.
- 65. Berliner N, Smith BR. 1991. The Pathobiology of Lymphoproliferative Disease. In: Hoffman R, Benz EJ, Shattil SJ, Furie B, Cohen HJ (eds): "Hematology: Basic Principles and Practice" (New York: Churchill Livingstone), pp. 897-912.

- 66. Smith BR. 1991. Use of Erythropoietin in Acquired Immunodeficiency Syndrome and Hematologic Disorders. Hosp Formulary 26:655-661.
- 67. Smith BR, Hansen JA, Rappeport JM. 1991. Bone Marrow Transplantation: Selecting Donors and Diseases. In: "Hematology, 1991: The Education Program of the American Society of Hematology" (ASH:1991), pp 104-111.
- 68. Smith BR. 1992. Can Medical Rationing Be Made Rational? Arch Int Med 152:476-477.
- 69. Macklis RM, Mauch PM, Burakoff SJ, Smith BR. 1992. Lymphoid Irradiation Results in Long Term Increases in Natural Killer Cells in Patients Treated for Hodgkin's Disease. Cancer 69:778-783.
- 70. Maziarz RT, Arceci RJ, Bernstein SC, Tantravehi R. Smith BR, Kasai M, Strominger JL. 1992. A Gamma-Delta T Cell Leukemia Bearing a Novel Variant t (8;14) (q24;q11) Translocation Demonstrates *In Vitro* Lymphocyte Activated Killing. Blood 79:1523-1531.
- 71. Rinder CS, Bonan JL, Rinder HM, Mathew J, Hines R, Smith BR. 1992. Cardiopulmonary Bypass Induces Leukocyte-Platelet Adhesion. Blood 79:1201-1205.
- 72. Wiebe V, DeGregorio MW, Smith BR, Rappeport JM. 1992. Pharmacology of Agents Used in Bone Marrow Transplant Conditioning Regimens. Critical Reviews in Oncology/Hematology 13:241-270.
- 73. Smith BR. 1993. Qualitative versus Quantitative Immunophenotyping. Annals of the New York Academy of Sciences 677:152-154.
- 74. Rinder HM, Munz U, Ault KA, Bonan JL, Smith BR. 1993. Reticulated Platelets in the Evaluation of Thrombopoietic Disorders. Arch Pathol Lab Med 117:606-610.
- 75. Smith BR. 1993. Integrating Flow Cytometry into the Hematology Laboratory: A Curmudgeon's View. Annals of the New York Academy of Sciences 677:326-333.
- 76. Bonan JL, Rinder HM, Smith BR. 1993. Determination of the Percentage of Thiazole Orange (TO) Positive "Reticulated" Platelets Using Autologous Erythrocyte TO Fluorescence as an Internal Standard. Cytometry 14:690-694.
- 77. Rinder HM, Snyder EL, Bonan JL, Napychank PA, Malkus H, Smith BR. 1993. Platelet Activation in Stored Platelet Concentrates: Correlation Between Membrane Expression of P-selectin, gpIIb/IIIa, and βthromboglobulin Release. Transfusion 33:25-29.
- Macklis RM, Mauch PM, Thompson L, Burakoff SJ, Smith BR. 1993. Phenotypic and Functional Analysis of Expanded Natural Killer Cell Subpopulations in Hodgkin's Disease Patients Treated with Lymphoid Irradiation. Oncology 50:323-328.
- 79. Rinder CS, Student LA, Bonan JL, Rinder HM, Smith BR. 1993. Aspirin does not inhibit ADP-induced Platelet granule Release. Blood 82:505-512.
- 80. Rinder CS, Gaal D, Student LA, Smith BR. 1994. Platelet-Leukocyte Activation and Modulation of Adhesion Receptors in Pediatric Patients with Congenital Heart Disease undergoing Cardiopulmonary Bypass. J Thorac Cardiovasc Surg 107:280-288.
- 81. Rinder HM, Bonan JL, Anandan S, Rinder CS, Rodrigues PA, Smith BR. 1994. Non-invasive Measurement of Platelet Kinetics in Normal and Hypertensive Pregnancies. Am J Obs Gynecol 170:117-122.

- Pisciotto PT, Snyder EL, Snyder JA, Frattaroli S, Hopfer SM, Rinder HM, Smith BR. 1994. *In Vitro* Characteristics of Leukocyte Reduced Single Unit Platelet Concentrates Stored in Syringes. Transfusion 34:407-411.
- 83. Leitenberg D, Rappeport JM, Smith BR. 1994. Precursor B Cell Bone Marrow Reconstitution Following Marrow Transplant. Am J Clin Pathol 102:231-236.
- 84. Berliner N, Smith BR. 1994. The Pathobiology of Lymphoproliferative Disease. In: Hoffman R, Benz EJ, Shattil SJ, Furie B, Cohen HJ (eds): "Hematology: Basic Principles and Practice, 2nd Edition" (New York: Churchill Livingstone), pp. 1193-1213.
- 85. Rinder HM, Ault KA, Jatlow P, Kosten R, Smith BR. 1994. Platelet Alpha-granule Release in Cocaine Users. Circulation 90:1162-1167.
- 86. Rinder HM, Tracey JL, Rinder CS, Leitenberg D, Smith BR. 1994. Neutrophil but not monocyte activation inhibits P-selectin mediated platelet adhesion. Thrombosis Haemostasis 71:750-756.
- Kugelman LC, Smith BR, Buckley P, Katz ME, Edelson RL. 1995. Lymphoproliferative Disease of Granular Lymphocytes: A Report of Cutaneous Manifestations and Review of the Literature. J Amer Acad Dermatol 32:829-833.
- 88. Antin JH, Smith BR. 1995. Bone Marrow Transplantation. In: Handin RI, Lux SE, Stossel TP "Blood: Principles and Practice of Hematology" (J.B. Lippincott Co, Philadelphia, PA), pp. 2055-2103.
- Schafer AS, Bridges KR, Knoll M, Shipp MA, Smith BR, Zuckerman KS. 1995. Medical Knowledge Self-Assessment Program X of the American College of Physicians - Hematology (ACP, Philadelphia, PA), pp 937-1004.
- Mathew JP, Rinder CS, Tracey JB, Auszura LA, O'Connor T, Davis E, Smith BR. 1995. Acadesine Inhibits Neutrophil CD11b Upregulation *In Vitro* and During *In Vivo* Cardiopulmonary Bypass. J Thorac Cardiovasc Surg 109:448-456.
- 91. Leitenberg D, Gilliand DG, Eisen R, Rinder H, Goldstein J, Stys P, Smith BR. 1995. Natural Killer Cell Lymphoproliferative Disease Associated with Chronic Demyelinating Neuropathy. Am J Med 99:99-102.
- 92. Smith BR. 1995. Book Review: Clinical Bone Marrow Transplantation, edited by Kerry Atkinson (Cambridge University Press, 1994). N Engl J Med 332:403-404.
- 93. Pfau S, Leitenberg D, Rinder H, Smith BR, Ruggero P, Bender JR. 1995. Lymphocyte adhesion dependent calcium signalling in human endothelial cells. J Cell Biol 128:969-978.
- 94. Harris SN, Rinder CS, Tracey JB, Rinder HM, Smith BR, Hines R. 1995. Nitroprusside Inhibition of *In Vivo* Platelet Function is Reversible. Anesthesiology 83:1145-1152.
- 95. Rinder CS, Rinder HM, Smith BR, Fitch JCK, Smith MJ, Tracey JB, Matis LA, Squinto SP, Rollins S. 1995. Blockade of C5a and C5b-9 generation inhibits leukocyte and platelet activation during extracorporeal circulation. J Clin Invest 96:1564-1572.
- 96. Leitenberg D, Constant S, Lu DD, Smith BR, Bottomly K. 1995. CD4 and CD45 regulate qualitatively distinct patterns of calcium mobilization in individual CD4+ T cells. Eur J Immunology 25:2445-2451.

- 97. Leitenberg D, Novak TJ, Farber D, Smith BR, Bottomly K. 1996. The Extracellular Domain of CD45 Controls Association with the CD4-T Cell Receptor Complex and the Response to Antigen-specific Stimulation. J Exp Med 183:249-259.
- 98. Smith BR. 1996. Book Review: Transplantation Immunology, edited by Fritz H. Bach and Hugh Auchincloss (Wiley-Liss, 1995). N Eng J Med 334:671-672.
- 99. Redlich CA, Homer RJ, Smith BR, Wirth JA, Cullen MR. 1996. Immunologic Responses to Isocyanates in Sensitized Asthmatic Subjects. Chest 109: 6S-8S.
- 100. Ross GS, Wilson DJ, Erikson RP, Motulsky AG, Parkman R, Samulski RJ, Straus SE, Smith, BR. 1996. Gene Therapy in the United States: A 5 Year Status Report. Human Gene Therapy 7:1781-1790.
- 101. Crouch J, Leitenberg D, Smith BR, Howe JG. 1997. Epstein-Barr Virus Suspension Cell Assay Using In Situ Hybridization and Flow Cytometry. Cytometry 29:50-57.
- 102. Smith BR. 1997. Interactions of Platelets and Endothelial Cells with Erythrocytes and Leukocytes in TTP. Sem Hematol 34:90-97.
- 103. Smith, BR. 1997. Book Review: Cell Therapy: Stem Cell Transplantation, Gene Therapy, and Cellular Immunotherapy, edited by George Morstyn and William Sheridan. Quarterly Rev of Biology 72:115-6.
- 104. Rinder CS, Mathew JP, Rinder HM, Tracey JS, Davis E, Smith BR. 1997. Lymphocyte and Monocyte Subset Changes During Cardiopulmonary Bypass: Effects of Aging and Gender. J Lab Clin Med 129:592-
- 105. Smith BR. 1997. Hematopoietic Stem Cell Transplantation. In: DeVita VT, Hellman S, Rosenberg SA. "Cancer: Principles and Practice of Oncology, 5th edition" (J.B. Lippincott Co., Philadelphia, PA) pp 2621-2639.
- 106. Squinto SP, Rollins S, Smith BR. 1998. The Use of C5-specific Antibodies for Reducing Immune and Hemostatic Dysfunctions During Extracorporeal Circulation. Patent US 5,853,722 (filed 12/21/95; issued 12/29/98).
- 107. Rinder HM, Schuster, JE, Rinder CS, Wang C, Schweidler HJ, Smith BR. 1998. Correlation of Thrombosis with Increased Platelet Turnover in Thrombocytosis. Blood 91:1288-1294.
- Smith BR. 1998. Commentary on: "Intercellular adhesion molecule-1 regulation in the canine lung after cardiopulmonary bypass" Dreyer WJ, Burns AR, Phillips SC, Lindsey ML, Jackson P, Kukielka GL. Journal of Thoracic and Cardiovascular Surgery 115(3): 698-699.
- 109. Smith BR. 1998. Interaction of Blood and Artificial Surfaces. In: Schafer AI, Loscalzo J. "Thrombosis and Hemorrhage, 2nd Edition" (Williams and Wilkins, Baltimore, MD) pp. 925-941.
- 110. Crotty PL, Smith BR, Tallini G. 1998. Morphologic, immunophenotypic and molecular evolution of bone marrow involvement in non-Hodgkin's lymphoma. Diag Mol Path 7(2):90-95.
- 111. Murren JR, Gollerkeri A, Anderson S, Lutzker S, Del Prete S, Zelterman D, Garrison L, Smith B. 1998. Peripheral blood progenitor cell cycle kinetics following priming with pIXY321 in patients treated with the "ICE" regimen. Yale J Biol Med 71(5):355-365.
- 112. Rinder HM. Tracey JB. Recht M. DeCastro L. Rinder CS. McHugh C. Smith BR. 1998. Differences in platelet alpha-granule release between normals and immune thrombocytopenic patients and between young and old platelets. Thrombosis & Haemostasis. 80(3):457-462.

- 113. Smith BR. 1999. Blood. In: "Microsoft Encarta Encyclopedia" (Microsoft Press, Redmond, WA).
- 114. Rinder CS, Rinder HM, Johnson K, Smith M, Lee D, Tracey J, Polock G, Higgins P, Yeh CG, Smith BR. 1999. Role of C3 Cleavage in Monocyte Activation during Extracorporeal Circulation. Circulation 100:553-558.
- 115. Jillella AP, Doria R, Khan K, Zelterman D, Ahmad YH, Smith BR, Holmes W, Becker P, Roberts KB, Rappeport JM. 1999. Cyclophosphamide, Cytosine Arabinoside and TBI as conditioning regimen for allogeneic bone marrow transplantation in patients with leukemia. Bone Marrow Transplantation 23:1095-1100.
- 116. Smith BR. 1999. Book Review: Tumor Marker Protocols, edited by Margaret Hanausek and Zbigniew Walaszek (Humana Press, 1999) Quarterly Rev of Biology 74(1):116-117.
- 117. Rinder CS, Rinder HM, Smith MJ, Tracey JB, Fitch JCK, Li L, Rollins SA, Smith BR. 1999. Selective blockade of membrane attack complex formation during simulated extracorporeal circulation inhibits platelet but not leukocyte activation. J Cardiovasc Thor Surgery 118:460-466.
- 118. Fitch JCK, Rollins S, Matis L, Alford B, Aranki S, Collard CD, Dewar M, Elefteriades J, Hines R, Kopf G, Kraker P, Li L, O'Hara R, Rinder C, Rinder H, Shaw R, Smith B, Stahl G, Sherman SK. 1999. Pharmacology and biological efficacy of a recombinant, humanized, single-chain antibody C5 complement inhibitor in patients undergoing coronary artery bypass graft surgery with cardiopulmonary bypass. Circulation 100:2499-2506.
- 119. McGuirk JP, Seropian S, Howe, G, Smith B, Stoddart L, and Cooper DL. 1999. Use of rituximab and irradiated donor-derived lymphocytes to control Epstein-Barr virus-associated lymphoproliferation in patients undergoing related haplo-identical stem cell transplantation. Bone Marrow Transplant 24(11): 1253-1258.
- 120. Smith BR. 2000. Hematopoietic Progenitor Cells: A Primer for Medical Professionals. In: Snyder ES, Haley R. "Basic Biology of Hematopoietic Progenitor Cell Transplantation" (AABB Press, Bethesda, MD) pp. 3-27.
- 121. Debelak J, Shlomchik MJ, Snyder EL, Cooper D, Seropian S, McGuirk J, Smith B, Krause DS. 2000. Isolation and FACS analysis of T cell depleted CD34+ peripheral blood stem cells. Transfusion 40: 1475-81.
- 122. Mathew JP, Rinder CS, Rinder HM, Howe JG, Crouch J, Newman MF, Fontes M, Phillips-Bute B, Smith BR and McSPI. 2001. Platelet GP IIIa PI^{A2} polymorphism enhances the risk of neurocognitive decline after cardiopulmonary bypass. Ann Thorac Surg 71: 663-6.
- Griffin MJ, Rinder HM, Smith BR, Tracey JB, Kriz N, Rinder CS. 2001. Effects of Heparin, Protamine and Heparin-Protamine Reversal on Platelet Function under Conditions of Arterial Shear Stress. Anesthesia & Analgesia 93:20-7.
- 124. Wang C, Smith BR, Ault KA, Rinder HM. 2002. A new peripheral blood measure of stress thrombopoiesis predicts imminent platelet recovery following chemotherapy. Transfusion 42: 368-74.
- 125. Smith BR, Rinder HM, Rinder CS. 2002. Chapter 48: Cardiopulmonary Bypass Platelet Physiology. In: Michaelson, A (ed) "Platelets" (Academic Press, New York) pp. 727-34.
- 126. Smith BR, Rinder CS, Rinder HM. 2002. Interaction of Blood and Artificial Surfaces. In: Loscalzo J, Schafer AI (eds) "Thrombosis and Hemorrhage, 3rd Edition" (Lippincott Williams & Wilkins, Philadelphia, PA) (pp 865-885).
- 127. Rinder CS, Mathew JP, Rinder HM, Howe JG, Fontes M, Pfau S, Patel P, Smith BR. 2002. The platelet PLA2 polymorphism increases the risk of myocardial injury as reflected by troponin I release during cardiopulmonary bypass. Anesthesiology 97: 1118-22.

- 128. Rinder HM, Smith BR. 2003. In Vitro Evaluation of Stored Platelets: Is there hope for predicting post-transfusion platelet survival and function? Transfusion 43:2-6.
- 129. Rinder CS, Mathew JP, Rinder HM, Smith BR. 2003. Neutrophil activation and CD11b Upregulation during cardiopulmonary bypass is associated with greater postoperative renal injury. Ann Thorac Surg 75: 899-905.
- 130. Hui P, Howe JG, Crouch J, Nimmakayalu M, Qumsiyeh MB, Tallinni G, Flynn S, Smith BR. 2003. Real-time quantitative RT-PCR of Cyclin D1 mRNA expression in mantle cell lymphomas: comparison with FISH and immunohistochemistry. Leukemia & Lymphoma 44: 1385-94.
- 131. H.M. Rinder, E.L. Snyder, J.B. Tracey, D. Dincecco, C. Wang, L. Baril, C.S. Rinder, and B.R. Smith. 2003. Reversibility of severe metabolic stress in stored platelets following in vitro plasma rescue or in vivo transfusion: restoration of secretory function and maintenance of platelet survival. Transfusion 43: 1230-7.
- 132. Esposito C, Popescu W, Rinder HM, Schwartz J, Smith BR, Rinder CS. 2003. Increased leukocyte-platelet adhesion in patients with graft occlusion after peripheral vascular surgery. Thrombosis Haemostasis 90: 1128-34.
- 133. Wang S. Ernst LM. Smith BR. Tallini G. Howe JG. Crouch J. Cooper DL. 2003. Systemic Tropheryma whippleii infection associated with monoclonal B-cell proliferation: a Helicobacter pylori-type pathogenesis? Arch Pathol Lab Med 127:1619-22.
- Greilich PE, Brouse CF, Rinder CS, Smith BR, Rinder HM, Sandoval BA, Eberhart RC, Jessen ME. 2004. Effects of Epsilon Aminocaproic Acid and Aprotinin on Leukocyte-Platelet Adhesion in Patients Undergoing Cardiac Surgery. Anesthesiology. 100: 225-33.
- 135. Howe JG, Crouch J, Cooper D, Smith BR. 2004. Real-Time Quantitative RT-PCR of Cyclin D1 mRNA for Mantle Cell Lymphoma Diagnosis in Blood, Marrow and Tissue Specimens. Clin Chem 50: 80-7.
- 136. Zieske A, Smith BR. 2004. Biology of Hematopoietic Progenitor Cell Transplantation. In: "Cellular Therapy: A Physician's Handbook" (Snyder EL, Haley NR, eds), pp 1-10, AABB Press.
- 137. Wang S, Li N, Heald P, Fisk JM, Fadare O, Howe JG, McNiff JM, Smith BR. 2004. Flow Cytometry DNA ploidy analysis on peripheral blood from patients with Sezary syndrome: Detection of aneuploid neoplastic T cells in the blood is associated with large cell transformation in tissue. Am J Clin Pathol 122: 774-82.
- 138. Rhoden KJ, Johnson C, Brandao G, Howe JG, Smith BR, Tallini G. 2004. Quantitative analysis of RET and its rearranged forms demonstartes marked variability in the mRNA expression levels of c-RET, RET/PTC1 and RET/PTC3 in papillary thyroid carcinoma. Laboratory Investigation 84: 1557-70.
- 139. Mehra R, Murren J, Chung G, Smith B, Psyrri A. 2005. Severe irinotecan-induced toxicities in a patient with uridine diphosphate glucuronosyltransferase 1A1 polymorphism. Clin Colorectal Cancer. 5(1):61-4.
- 140. Fontes M, Mathew JP, Rinder HM, Zelterman D, Smith BR, Rinder CS. 2005. Atrial Fibrillation after Cardiopulmonary Bypass is Associated with Monocyte Activation. Anesthesia & Analgesia 101: 17-23.
- 141. Mathew JP, Rinder HM, Smith BR, Newman MF, Rinder CS. 2006. Transcerebral platelet activation after aortic cross-clamp release is associated with neurocognitive decline after cardiopulmonary bypass. Ann Thorac Surg 81: 1644.

- 142. Smith BR, Wells A, Alexander CB, Bovill E, Campbell S, Dasgupta A, Fung M, Haller B, Howe JG, Parvin C, Peershke E, Rinder H, Spitalnik S, Weiss R, Wener M for the Academy of Clinical Laboratory Physicians and Scientists. 2006. Curriculum Content and Evaluation of Resident Competency in Clinical Pathology (Laboratory Medicine): A Proposal. Human Pathol 37: 934-68; Amer J Clin Pathol 125(Suppl 1): S3-S37; Clin Chem 52: 917-949. (simultaneous publication in three journals).
- 143. Wells, A and Smith, BR. 2006. Counterpoint: Developing a Clinical Pathology Curriculum to meet Current and Future Needs. Clin Chem 52: 971-972.
- 144. Wells A, Smith BR, Sacks DB. 2006. The Challenge of Training Pathologists in the 21st Century. Hum Pathol 37: 932-33.
- 145. Smith BR, Rinder HM, Rinder CS. 2006. Chapter 59: Cardiopulmonary Bypass. In: Michaelson, A (ed) Platelets, 2nd Edition (Academic Press, New York) pp. 1077-1095
- 146. Rinder CS, Rinder HM, Smith MJ, Fitch JCK, Tracey JB, Chandler WL, Rollins SA, Smith BR. 2006. Antithrombin reduces monocyte and neutrophil CD11b upregulation in addition to blocking platelet activation during extracorporeal circulation. Transfusion 46(7): 1130-1137.
- 147. Rinder HM, Smith BR. 2007. Evolving Paradigms of Laboratory Medicine Resident Education and Consultation. Clin Chem 53: 1-2.
- 148. Rinder CS, Smith MJ, Rinder HM, Cortright DN, Brodbeck RM, Krause JE, Smith BR. 2007. Leukocyte effects of C5a Receptor Blockade during Simulated Extracorporeal Circulation. Ann Thorac Surg 83: 146-52.
- 149. Smith, BR (editor). 2007. Education in Laboratory Medicine. Clin Lab Med 27: xi-xiii.
- 150. Rinder HM, Smith BR. 2007. Innovative Methods in Laboratory Medicine Resident Teaching. Clin Lab Med 27:255-267.
- 151. Wells A, Smith BR. 2007. The Goals of Resident Training in Laboratory Medicine in Combined AP/CP Programs: An Overview. Clin Laboratory Med 27: 229-40.
- 152. Bizzarro MJ, Bhandari V, Krause DS, Smith BR, Gross I. 2007. Circulating stem cells in extremely preterm neonates. Acta Paediatrica. 96(4):521-5.
- 153. Stachursk D, Smith BR, Pozdnyakoval O, Andersen1 M, Xiao1 Z, Raza A, Woda BA, Wang SA. 2008. Flow Cytometric Analysis of Myelomonocytic Cells in Diagnosis of Myelodysplastic Syndrome and Related Marrow Diseases: Emphasis on a global evaluation and recognition of diagnostic pitfalls. Leukemia Res 32: 215-24.
- 154. Kenney BC, Zieske A, Rinder HM, Smith BR. 2008. DNA Ploidy Analysis as an Adjunct for the Detection of Relapse in B-Lineage Acute Lymphoblastic Leukemia. Leukemia & Lymphoma 49: 42-8.
- 155. Greilich PE, Brouse CF, Rinder HM, Jessen ME, Rinder CS, Whitten CW, Eberhart RC, Smith BR. 2008. Differential markers and time course of monocyte activation in on- versus off-pump coronary artery bypass surgery. J Cardiothorac Vasc Anesthes 22: 361-8.
- 156. Smith BR. Meeting the Curriculum Needs for Different Career Paths in Laboratory Medicine. 2008. Clinica Chimica Acta 393: 5–8.

- 157. Smith BR. Therapeutic Pathology: Time to Move Beyond Diagnostics. 2008. Hum Pathol 39: 1725-7.
- 158. Truong F, Smith, BR, Stachurski D, Cerny J, Medeiros LJ, Woda BA, Wang SA. The Utility of Flow Cytometric Immunophenotyping in Cytopenic Patients with a Non-Diagnostic Bone Marrow- A Prospective Study. 2009. Leuk Res 33: 1039-46.
- 159. Luning Prak ET, Young DS, Kamoun M, Nachamkin I, Alexander CB, Spitalnik S, Peerschke E, Smith BR. 2008 ACLPS Panel Discussion on Resident Education in Clinical Pathology. 2009. Am J Clin Pathol 131: 618-622. [19369619]
- 160. Smith BR, Aguero-Rosenfeld M, Anastasi J, Baron B, Berg A, Bock JL, Campbell S, Crookston KP, Fitzgerald R, Fung M, Haspel R, Howe JG, Jhang J, Kamoun M, Koethe S, Krasowski MD, Landry ML, Marques MB, Rinder HM, Roberts W, Schreiber WE, Spitalnik S, Tormey CA, Wolf P, Wu YY, for the Academy of Clinical Laboratory Physicians and Scientists. Educating Medical Students in Laboratory Medicine: A Proposed Curriculum. 2010. Am J Clin Pathol 133: 533-42. [20231605]
- 161. Klatt EC; Academy of Clinical Laboratory Physicians and Scientists Ad Hoc Committee on Medical School Curricula, Smith BR. Am J Clin Pathol. 2010 Nov;134(5):849 [20959671]
- Scott MG, Smith BR, Wu AHB, Young IS, Plebani M, and Chiu RWK. How well are we training the next generation of Clinical Pathologists and Clinical Laboratory Directors? A global perspective. 2012. Clin Chem 58: 491-5. [21969387]
- 163. Smith BR, Tormey C, Siddon A. 2011. Leukocyte Disorder Case Studies. In: Krause J, Filicko-O'Hara J and Gulati G, eds. Case Studies in Hematology and Coagulation. ASCP Press: Chicago, IL.
- Rinder HM, Smith BR. 2012. Chapter 52: Disorders of Coagulation in Cardiopulmonary Bypass. In: Michaelson, A (ed) Platelets, 3rd Edition (Academic Press, New York) pp. 1075-96.
- 165. Rashidi HH, Xu X, Wang, H-Y, Shafi NQ, Rameshkumar K, Messer K, Smith BR, Rose MG. 2012. Utility of Peripheral Blood Flow Cytometry in Differentiating Low Grade Versus High Grade Myelodysplastic Syndromes (MDS) and in the evaluation of Cytopenias. Intl J Clin Exptl Pathology 5(3):224-30. [22558477]
- 166. Ziai J, Smith BR. 2012. Training Residents and Fellows in a Time of Disruptive Technologies. In: Oltvai, ZN (ed) Conceptual Advances in Pathology. Clin Lab Med 32(4): 623-38. [23078663]
- 167. Siddon AJ, Torres R, Rinder HM, Smith BR, Howe JG, Tormey CA. 2012. Normalized CCND1 expression has prognostic value in mantle cell lymphoma. Br J Haematol 158(4): 551-3. [22671703]
- 168. Tormey CA, Smith BR. 2013. The Transfusion Medicine Specialist as a Coagulation Consultant: A New Variant of Therapeutic Pathology. Transfusion 53: 2086-93. [23228202]
- 169. Bauer T, Bloom K, Chen P, Cornish T, Dry S, Evans A, Frishberg D, Glassy E, Hassell L, Henricks W, Hipp J, Kaplan K, Pantanowitz L, Parwani A, Smith B, Walk E, eds. CAP Pathology Resource Guide: Digital Pathology. Version 4.0. Northfield, IL: College of American Pathologists, 2013.
- 170. Torres R., Tormey C.A. and Smith B.R. (2014) Hematology in Clinical Pathology. In: Linda M. McManus, Richard N. Mitchell, editors. Pathobiology of Human Disease. San Diego: Elsevier; 2014. p. 3269-3286.
- 171. Tormey CA, Smith BR. 2014. The Transfusion Medicine Specialist as a Coagulation Consultant: A New Variant of Therapeutic Pathology: Reply. Transfusion 54: 1441-2. [24819077]

- 172. Scott MG, Rifai N, Smith B, Oellerich M, Panteghini M, Apple F, Sikaris K, Young I. 2015. The Changing Face of Laboratory Medicine: a More Service and Less Academically Oriented Profession? Clin Chem 61: 322-9.
- 173. Abi Raad R, Smith BR. 2015. Biosimilar Biologicals: Never identical but close enough. Transfusion 55: 229-31.
- 174. Smith, BR, Kamoun M, Hickner J. 2016. Medical Student Education in Laboratory Medicine in United States Medical Schools: A 2014 Status Report. Acad Med 91(1): 107-12.
- 175. Remick DG, Lorenz RG, Smith BR. 2016. Opportunity: Newly created physician-scientist research pathway by the American Board of Pathology. Academic Pathology 3: 1-3.
- 176. Smith BR, Tormey C, Siddon A. 2016. Leukocyte Disorder Case Studies. In: Krause J, Filicko-O'Hara J and Gulati G, eds. Case Studies in Hematology and Coagulation, Second Edition. ASCP Press: Chicago, IL (in press).

Submitted

- 177. Griffin MJ, Rinder CS, Smith BR, Poulton JS, Rinder HM. Decreased shear-dependent platelet function correlates with bleeding and therapeutic response to platelet transfusion following cardiopulmonary bypass. (submitted)
- 178. Rinder HM, Rinder CS, Smith BR. Heme Oxygenase is upregulated by Shear Stress and by Simulated Extracorporeal Circulation. (submitted).

RESEARCH SUPPORT

Ongoing Research Support:

1-T32-HL07974-14 Smith, BR (PI) 05/01/2012-04/31/2017 NIH/NHLBI Immunohematology/Transfusion Medicine Research Training This is a post-doctoral training grant in the broad field of Immunohematology and Transfusion Medicine. Role: PI

No number. Smith, BR (PI) 06/01/2014-05/31/2018 Boerhinger-Ingelheim Pharmaceuticals Syk Pathways in Platelet Activation via Hematopoietic Cell-Cell Interactions The goal of this project is to understand the effects of cell-cell adhesion on syk activation pathways. Role: PI

AMG RFP 1105. Smith, BR (PI) 10/01/2012-09/30/2016

Academic Mission Group of the Association of Pathology Chairs

Laboratory Medicine Education in Medical Schools

The goals of this project are to comprehensively assess the status of Laboratory Medicine in US Medical Schools and to enhance training in this area.

Role: PI

NHLBI HHSN268201100006I. Snyder, EL (PI) 03/15/2011-03/14/2018 NIH/NHLBI

Recipient Epidemiology and Donor Evaluation Study-III (REDS-III)

The goal of this project is to participate as a domestic hub in the REDS III consortium. The proposal combines the resources of a large, nationally recognized tertiary care hospital (Yale-New Haven Hospital), a large, ethnically

diverse community hospital (Bridgeport), and a large blood center (American Red Cross, Connecticut Region). Role: Co-Investigator

1U54DK106857-01. Krause, DS (PI) 08/01/2015-07/31/2020 NIH/NIDDK Yale Cooperative Hematology Specialized Core Center The goal of this project is to facilitate and enhance hematology research by providing investigators access to state-of-the-

art technologies via both performance and teaching-based approaches.

Role: Co-Investigator

Recently Completed Research Support:

No number. Smith, BR (PI) 07/01/2011-06/30/2015

American Society of Hematology

Alternative Training Pathway Development

Adult/Pediatric Transfusion Medicine and Coagulation Fellowship

The goal of this project is to develop a training program for a recognized gap in physician-scientist education, that is, internal medicine and pediatric hematology training program graduates who desire special expertise in the science and medicine of Transfusion Medicine and Coagulation.

Role: PI