
BIOGRAPHICAL SKETCH

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NAME Anthony William Butch	POSITION TITLE Professor, Pathology & Laboratory Medicine		
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Wayne State University, Detroit, MI	B.S.	73 - 77	Medical Technology
Wayne State University, Detroit, MI	M.S.	83 - 85	Immunology
Wayne State University, Detroit, MI	Ph.D.	85 - 87	Immunology
Washington University, St. Louis, MO	Postdoctoral	87 - 93	Immunology
Wayne State University, Detroit, MI	B.S.	73 - 77	Medical Technology

A. Positions and Honors.

Positions and Employment

1993 – 1999 Assistant Professor of Pathology, University of Arkansas for Medical Sciences
1993 – 1999 Member, Arkansas Cancer Research Center, Little Rock, AR
1993 – 1994 Assistant Director of Immunology & Chemistry, Clinical Laboratories at University Hospital, University of Arkansas for Medical Sciences
1994 – 1999 Director of Immunology & Chemistry, Clinical Laboratories at University Hospital, University of Arkansas for Medical Sciences
1999 – 2001 Assistant Professor of Pathology, Geffen School of Medicine at UCLA
1999 – present Director of Immunochemistry, Chemistry, & Toxicology, Department of Pathology & Lab Medicine, Geffen School of Medicine at UCLA
1999 – 2000 Associate Director of Flow Cytometry, Department of Pathology & Lab Medicine, Geffen School of Medicine at UCLA
2000 – present Director of Clinical Immunology Research Laboratories, Department of Pathology & Lab Medicine, Geffen School of Medicine at UCLA
2001 – 2006 Associate Professor of Pathology, Geffen School of Medicine at UCLA
2006 – present Professor of Pathology, Geffen School of Medicine at UCLA
2006 – present Director, General Clinical Research Center (GCRC) Core Laboratory, Geffen School of Medicine at UCLA

Professional Memberships

1989 – present Member, American Association of Clinical Chemistry
1992 – present Member, American Association of Immunologists
1993 – present Member, The Academy of Clinical Laboratory Physicians and Scientists
1994 – present Member, Association of Clinical Scientists
1999 – present Member, The Clinical Immunology Society
2000 – present Member, National Academy of Clinical Biochemistry

Honors

1985 – 1987 NCI Predoctoral Fellow in Biology of Cancer, Wayne State University, Detroit, MI
1988 – 1991 NIH Postdoctoral Fellow in Immunogenetics, Washington University, St. Louis, MO
1990 Academy of Clinical Laboratory Physicians and Scientists Young Investigator Award

B. Selected peer-reviewed publications (in chronological order).

- Rosloniec EF, Gottlieb C, **Butch AW**, Lerman SP. Comparative growth of SJL/J lymphomas irradiated and normal SJL/J mice: Cell cycle distribution and tumor cell quantification. *J Natl Cancer Inst.* 1985;75:877-83.
- Butch AW**, Macke KA, Scott MG, Inkster M, Nahm MH. Mitogen-induced human IgG subclass expression II. IgG1 and IgG3 subclasses are preferentially stimulated by a combination of *Staphylococcus aureus* Cowan I and pokeweed mitogen. *Human Immunol.* 1989;24:207-18.
- Thrush G, **Butch AW**, Lerman SP. CD8 suppressor cell activity and its effect on CD4 helper cell-dependent growth of SJL/J B-cell lymphomas. *Cell Immunol.* 1989;122:555-62.
- Butch AW**, Goodnow TT, Brown WS, McClellan A, Kessler G, Scott MG. Stratus automated creatine kinase-MB assay evaluated: Identification and elimination of falsely increased results associated with a high-molecular-mass form of alkaline phosphatase. *Clin Chem.* 1989;35:2048-53.
- Nahm M, Park KS, Chandekar L, Desi S, Kim S, **Butch AW**, Paik WK. Studies on the distribution of S-adenosylmethionine protein N-methyltransferases in human splenocytes. *Clin Chem Enzym Comm.* 1990;2:125-35.
- Scott MG, Levine AD, **Butch AW**, Bowen MB, Macke KA, Nahm MH. Production, characterization and use of five monoclonal antibodies to human IL-4. *Lymphokine Research.* 1990;9:81-93.
- Butch AW**, Shelton MA, Valdes Jr. R. More on the new immunometric digoxin assay on the Ames Seralyzer. *Ther Drug Monit.* 1990;12:584-5.
- Butch AW**, Pesando J, Levine A, McKearn J, Nahm MH. Cytokine production by T helper cell subpopulations during prolonged *in vitro* stimulation. *Immunol Lett.* 1991;27:85-94.
- Bowen MB, **Butch AW**, Parvin CA, Levine A, Nahm MH. Germinal center T cells are distinct helper-inducer T cells. *Human Immunol.* 1991;31:67-75.
- Secrist H, Holers M, Levine A, Egan M, Nahm MH, **Butch AW**, Peters M. Induction of IL-4 and IL-6 synthesis *in vitro*: Variation in signalling requirements and kinetics are dependent on the anatomic source of the responding mononuclear cells. *Regional Immunol.* 1991;3:341-8.
- Butch AW**, Nahm MH. Functional properties of human germinal center B cells. *Cell Immunol.* 1992;140:331-4.
- Butch AW**, Chung GH, Hoffmann JW, Nahm MH. Cytokine expression by germinal center cells. *J Immunol.* 1993;150:39-47.
- Wong EC, **Butch AW**, Rosenblum JL, Ladenson JH, Scott MG. The clinical chemistry laboratory and acute pancreatitis. *Clin Chem.* 1993;39:234-43.
- Butch AW**, Hug BA, Nahm MH. In vitro properties of human follicular dendritic cells isolated with HJ2, a new mouse monoclonal antibody. *Cell Immunol.* 1994;155:27-41.
- Moncharia H, **Butch AW**, Pappas AA, Flick JT, Weinstein RS, DeTogni P, Jilka R, Parfitt AM, Manolagas SC. Quantification of vitamin D receptor mRNA by competitive polymerase chain reaction in PBMC: lack of correspondence with common allelic variants. *J Bone Miner Res.* 1997;12:726-33.
- Zent CS, Wilson CS, Tricot G, Jagannath S, Siegel D, Desikan KR, Munshi N, Bracy D, Barlogie B, **Butch AW**. Oligoclonal protein bands and immunoglobulin isotype switching in multiple myeloma patients treated with autologous bone marrow transplantation. *Blood.* 1998;91:3518-23.
- Fiser RT, Torres A, **Butch AW**, Valentine JL. Ionized magnesium concentrations in critically ill and healthy children. *Crit Care Med.* 1998;26:2048-52.
- Paulson WD, Roberts WL, Lurie AA, Koch DD, **Butch AW**, Aguanno JJ. Wide variation in serum anion gap measurements by chemistry analyzers. *Am J Clin Path.* 1998;110:735-42.
- Butch AW**, Kelly KA, Willbanks MS, Yu X. Human follicular dendritic cells inhibit superantigen-induced T cell proliferation by distinct mechanisms. *Blood.* 1999;94:216-24.
- Hajek R, **Butch AW**. Dendritic cell biology and the application of dendritic cells to immunotherapy of multiple myeloma. *Medical Oncology.* 2000;17:2-15.
- Yeh AY, Pappas AA, Flick JT, **Butch AW**. Non-secretory plasma cell myeloma with cleaved, multilobated, and monocytoid nuclei. *Ann Clin Lab Sci.* 2000;30:283-7.
- Butch AW**. Falsely increased values for rabbit immunoglobulin-based nephelometric immunoassays attributable to human anti-rabbit antibodies. *Clin Chem.* 2000;46:1207-8.
- Butch AW**. Dilution protocols for detection of hook effect/prozone phenomenon. *Clin Chem.* 2000;46:1719-20.
- Wilson CS, **Butch AW**, Lai R, Medeiros LJ, Sawyer JR, Barlogie B, McCourty BS, Kelly K, Brynes RK. Cyclin D1 and E2F-1 immunoreactivity in bone marrow biopsies of multiple myeloma: relationship to proliferative activity, cytogenetic abnormalities and ploidy. *Br J Haematol.* 2001;112:776-82.

- Butch AW**, Kelly KA, Munshi NC. Dendritic cells derived from multiple myeloma patients efficiently internalize different classes of myeloma protein. *Exp Haematol*. 2001;29:85-92.
- Butch AW**, Badros A, Desikan KR, Munshi NC. Expression of a free heavy chain following autologous stem cell transplantation for IgG kappa multiple myeloma. *Bone Marrow Transplant*. 2001;27:663-6.
- Wilson CS, Medeiros LJ, Lai R, **Butch AW**, McCourty A, Kelly K, Brynes RK. DNA topoisomerase II in multiple myeloma: A marker of cell proliferation and not drug resistance. *Modern Pathol*. 2002;14:886-91.
- Butch AW**, Crary D, Yee M. Analytical performance of the Roche total and free PSA assays on the Elecsys 2010 immunoanalyzer. *Clin Biochem*. 2002;35:143-5.
- Christiansen J, Rajasekaran SA, Moy P, Butch A, Goodglick L, Zhennau G, Reiter RE, Bander NH, Rajaselaran AK. Polarity of prostate specific membrane antigen, prostate stem cell antigen, and prostate specific antigen in prostate tissue and in a cultured epithelial cell line. *Prostate*. 2003;55:9-14.
- Butch AW**, Fukuchi AM. Evaluation of a new pretreatment reagent for use with the EMIT[®] 2000 cyclosporine assay. *Clin Biochem*. 2003;36:313-6.
- Aziz N, Fahey JL, Detels R, **Butch AW**. Analytical performance of a high sensitive C-reactive protein immunoassay and the effect of laboratory variables on measured blood levels. *Clin Diag Lab Immunol*. 2003;10:652-7.
- Motivala SJ, Dang J, Obradovic T, Meadows GG, **Butch AW**, Irwin M. Leptin and cellular and innate immunity in abstinent alcoholics and controls. *Alcohol. Clin Exp Res*. 2003;27:1819-24.
- Yeo KTJ, Wu AHB, Apple FS, Kroll MH, Christenson RH, Lewandrowski KB, Sedor FA, **Butch AW**. Multicenter evaluation of the Roche NT-proBNP assay and comparison to the Biosite Triage BNP assay. *Clinica Chimica Acta*. 2003;338:107-15.
- Butch AW**. Laboratory aspects of thyroid function testing. *ADVANCE for Medical Laboratory Professionals*. 2003;15:19-24.
- Butch AW**, Fukuchi AM. Analytical performance of the CEDIA cyclosporine PLUS whole blood immunoassay. *J Anal Toxicol*. 2004;28:204-10.
- McWhorter VC, Ford LC, **Butch AW**. Analytical performance of the Synchron LX[®]20 Pro, BN[™]II and IMAGE[®] high sensitivity C-reactive protein assays and concordance in cardiovascular risk stratification. *Clinica Chimica Acta*. 2004;374:71-9.
- Aziz N, Irwin MR, Dickerson SS, **Butch AW**. Spurious tumor necrosis factor alpha and interleukin-6 production by human monocytes from blood collected in endotoxin-contaminated Vacutainer blood collection tubes. *Clin Chem*. 2004;50:2215-6.
- Butch AW**, Chun HH, Nahas SA, Gatti RA. Development of an immunoassay to measure ataxia-telangiectasia mutated (ATM) protein in cellular lysates. *Clin Chem*. 2004;50:2302-8.
- Jahr JS, Osgood S, Rothenberg SJ, Steien E, Li QL, Bezdikian V, **Butch AW**, Gunther R, Cheung A, Driessen B. Lactate interference by hemoglobin-based oxygen carriers (Oxyglobin[®], Hemopure[®], and Hemolink[™]). *Anesth Analg*. 2005;100:431-6.
- Wah DT, Wises PK, **Butch AW**. Analytical performance of the iQ200[®] automated urine microscopy analyzer and comparison with manual counts using Fuchs-Rosenthal cell chambers. *Am J Clin Path*. 2005;123:290-6.
- Leppert JT, Lam JS, **Butch AW**, Beldegrun AS. Are testosterone immunoassays reliable for monitoring anti-androgen therapy? *Urol Oncol*. 2006;24:277-8.
- Kelly KA, **Butch AW**. Antigen-specific immunoglobulin E⁺ B cells are preferentially localized within germinal centers. *Immunol*. 2006;120:345-53.
- Monchamp T, Chopra IJ, Wah DT, **Butch AW**. Falsely elevated thyroid hormone levels due to anti-sheep antibody interference in an automated electrochemiluminescent immunoassay. *Thyroid*, In press.
- Irwin MR, Olmos L, Wang M, Valladares EM, Motivala SJ, Fong T, Newton T, **Butch A**, Cole SW. Cocaine dependence and acute cocaine induce decreases of monocyte proinflammatory cytokine expression across the diurnal period: autonomic mechanisms. *J Pharmacol Exp Ther*, In press.
- Sullivan PS, **Butch AW**. Long-standing microcytic anemia in a 29-year old woman. *Lab Medicine*, In press.
- Nguyen MK, Ornekian V, **Butch AW**, Kurtz I. A new quantitative method for determining the plasma water content in pseudohyponatremia. *AJP:Renal Physiol*, In press.

C. Research Support

Ongoing Research Support

2 U01 AI035040 (Detels)

04/01/04 – 03/31/09

NIH/NIAID

Natural History of AIDS in Homosexual Men

The major goals of this project are to continue to document the natural history of untreated and treated HIV infection in a group of men who was originally recruited in 1984/5 and a group of young Latino and African-American men recruited in 2002/3.

Role: Co-investigator

U2R TW006917 (Detels)

04/01/04 – 03/31/09

NIH/Fogarty (ICOHRTA)

China Multidisciplinary AIDS Prevention Training Program

The major goals are to establish an independent HIV/AIDS training center at the Chinese Center for Disease Control and Prevention which can assist other academic and research institutions in China in the training of health professionals and researchers to combat the HIV/AIDS epidemic.

Role: Co-investigator

R01-AI26328-13 (Kelly)

12/01/02 - 11/31/07

NIH/NIAID

T-Cell Mediated Immunity in Chlamydial Genital Infection

The major goals of this project are to identify mechanisms of lymphocyte recruitment to chlamydial infected genital mucosa using the murine model of infection.

Role: Co-investigator

W. Bettinger Endowment Fund (Butch)

07/01/06 – 06/31/07

Cousins Center for Psychoneuroimmunology In the UCLA Neuropsychiatric Institute

Core Immunology Laboratory

The major goals of this project are to investigate behavioral, neural and immunologic interactions, and to conduct immunological studies in conjunction with psychological evaluation and interventions.

Role: PI

Completed Research Support

W. Bettinger Endowment Fund (Butch)

07/01/05 – 06/31/06

Cousins Center for Psychoneuroimmunology In the UCLA Neuropsychiatric Institute

Core Immunology Laboratory

The major goals of this project are to investigate behavioral, neural and immunologic interactions, and to conduct immunological studies in conjunction with psychological evaluation and interventions.

P30-CA016042 (Gasson)

12/01/02 – 11/30/05

NCI

Cancer Center Core Support Grant

Subproject: Immunology Core

The major goal is to provide state of the art immunological assays to members of the Jonsson Cancer Center.

U01 AI035040 (Detels)

04/01/99 – 03/31/04

NIH/NAID

Natural History of AIDS in Homosexual Men

The major goals of this project are to describe the natural history of HIV/AIDS in homosexual/bisexual men and assess the long-term effectiveness of HAART.

