

November 1, 2016

## CURRICULUM VITAE

**Daniel A. Bloch, Ph.D.**

**BIRTHPLACE & DATE:** Palo Alto, CA; January 15, 1941

**MARITAL STATUS:** Married: Four children – born 1969, 72, 81, 85

**UNIVERSITY AFFILIATION:** Stanford University School of Medicine  
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**EDUCATION:**

1963: B.S. Stanford University, Major: Statistics  
1967: Ph.D. Johns Hopkins University, Statistics

### ACADEMIC APPOINTMENTS:

1967 - 1968 Research Fellow, Biomathematics Department, Cornell University Medical School, New York, New York.

1967-1969 Research Associate, Sloan-Kettering Institute for Cancer Research, New York, New York.

1969-1970 Assistant Professor, Biomathematics Department, Cornell University Medical School, New York, NY  
Associate, Sloan-Kettering Institute for Cancer Research, New York, New York.

1970 - 1972 Assistant Professor of Mathematics, California State University, Sonoma, Cotati, California.

1984 - 1985 Statistician II. Division of Immunology, Department of Medicine, Stanford University, Stanford, California. Head Biostatistician for Arthritis, Rheumatism, and Aging Medical Information Systems (ARAMIS) and for Stanford Arthritis Center (SAC).

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1985 - 1986	Statistician III, Division of Immunology, Department of Medicine, Stanford University School of Medicine, Stanford, CA
1986 - 1993	Senior Research Scholar, Department of Medicine, Stanford University School of Medicine, Stanford, California.
1993 - 1995	Acting Associate Professor, Department of Medicine and Department of Health Research and Policy, Stanford University School of Medicine, Stanford, California.
1995 – Sept. 2001	Associate Professor of Health Research and Policy, Division of Biostatistics, Stanford University School of Medicine, Stanford, California.
Sept. 2001 – present	Professor of Health Research and Policy, Division of Biostatistics, Stanford University, Stanford, California. Emeritus since February, 2007.

## **PROFESSIONAL APPOINTMENTS AND ACTIVITIES**

1. Research and Teaching Assistant, Statistics Department, Johns Hopkins University, Baltimore, Maryland, 1963 – 1967.
2. Statistical Consultant, Stanford Linear Accelerator Center, Stanford, California, 1967.
3. Owner, Daniel A. Bloch, dba Land House Construction, General Contractor “B”, License No. 292149, 1972-1984.
4. Member, Human Rights Committee, VA Cooperative Studies Center, 1986-1990.
5. Head biostatistician for AIDS Time-Oriented Health Outcome Study (ATHOS), 1989-1995.
6. Head biostatistician for the Stanford Arthritis Center (SAC), 1985-1996.
7. Head biostatistician for Arthritis, Rheumatism, and Aging Medical Information Systems (ARAMIS) and for Stanford Arthritis Center (SAC), 1985-2000.
8. Consultant on an ad hoc basis to pharmaceutical and biotechnical firms, 1987-present.
9. Consultant to the VA Cooperative Studies Coordinating Center, 1990-2007.
10. Member, Steering Committee, California Society of Addiction Medicine, 1990-1993.
11. Special government employee: consultant to FDA (including FDA statistical advisors panel), 1995-2006.
12. Member, Database Advisory Steering Panel, National Multiple Sclerosis Society, 1997-2003.
13. Member, Editorial Board for “Osteoarthritis and Cartilage”, 1998-2008.

14. Member, VA Combined Monitoring Board, 2002-2005.
15. Member, Editorial Board for "Journal of Endovascular Therapy," 2001-2008.
16. Member, numerous DSMBs for private industry and NIH grants, 1993-present.

#### SCHOLARLY PUBLICATIONS:

##### 1. Peer Reviewed Journal Articles

1. **Bloch DA**. "A note on the estimation of the location parameter of Cauchy distribution." *J Am Stat Assoc*, 1966; **61**: 852-855.
2. **Bloch DA**, Watson GS. "A Bayesian study of the multinomial distribution." *Ann Math Stat*, 1967; **38**: 1423-1435.
3. **Bloch DA**, Gastwirth JL. "On a simple estimate of the reciprocal of the density function." *Ann Math Stat*, 1968; **39**: 1083-1085.
4. Wynder EL, Dodo H, **Bloch DA**, Gantt R, Moore O. "An epidemiological investigation of multiple primary cancers of the upper alimentary and respiratory tracts, I: a retrospective study." *Cancer*, 1969; 730-739.
5. Lincoff H, O'Conner P, **Bloch DA**, Nadel A, Kressig I, Grinberg M. "The cryosurgical adhesion, II." *Am Acad Ophthalmol*, 1970; 98-107.
6. **Bloch DA**, O'Conner P, Lincoff H. "The mechanism of the cryosurgical adhesion III: statistical analysis." *Am J Ophthalmol*, 1971; **71(3)**: 666-673.
7. Fries J, **Bloch DA**, Spitz P. "Cancer in rheumatoid arthritis: a prospective long-term study of mortality." *Am J Med*, 1985; **78**: 56-59.
8. Fries J, **Bloch DA**, Sharp J, McShane D, Patricia S, Gilbert B, Forrester D, Genant H, Gofton P, Richman S, Weissman B, Wolfe F. "Assessment of radiological progression in rheumatoid arthritis: a randomized controlled trial." *Arthritis Rheum*, 1986; **29(1)**: 1-9
9. Sherrer Y, **Bloch DA**, Mitchell D, Young D, Fries J. "The development of disability in rheumatoid arthritis." *Arthritis Rheum*, 1986; **29(4)**: 494-500.
10. Mitchell D, Spitz P, Young D, **Bloch DA**, McShane DJ, Fries JF. "Survival, prognosis, and cause of death in rheumatoid arthritis." *Arthritis Rheum*, 1986; **29**: 706-714.
11. Lane N, **Bloch DA**, Jones H, Marshall W, Wood PD, Fries JF. "Long-distance running, bone density, and osteoarthritis." *J Am Med Assoc*, 1986; **255(9)**: 1147-1151.
12. Fries J, Spitz P, Mitchell D, Roth S, Wolfe F, **Bloch DA** "Impact of specific therapy upon rheumatoid arthritis." *Arthritis Rheum*, 1986; **29(5)**: 620-627.
13. **Bloch DA** "Sample size requirements and the cost of a randomized clinical trial with repeated measurements." *Stat Med*, 1986; **5(6)**: 663-667.

14. Altman R, Asch E, **Bloch DA**, Bole G, Borenstein D, Brandt K, Christy W, Cooke TD, Greenwald R, Hochberg M, Howell D, Kaplan D, Koopman W, Longley S, Mankin D, McShane DJ, Medsger T, Meenan R, Mikkelsen W, Moskowitz R, Murphy W, Rothschild B, Segal M, Sokoloff L, Wolfe R. "Development of criteria for the classification and reporting of osteoarthritis; classification of osteoarthritis of the knee." *Arthritis Rheum*, 1986; **29(8)**: 1039-1049.
15. Sherrer Y, **Bloch DA**, Strober S, Fries J. "Comparative toxicity of total lymphoid irradiation and immunosuppressive drug treated patients with intractable rheumatoid arthritis." *J Rheumatol*, 1987; **14(1)**: 46-51.
16. Lane N, **Bloch DA**, Wood PD, Fries JF. "Aging, long-distance running, and the development of musculoskeletal disability." *Am J Med*, 1987; **82**: 772-780.
17. Sherrer YS, **Bloch DA**, Mitchell DM, Roth SH, Wolfe F, Fries JF. "Disability in rheumatoid arthritis: comparison of prognostic factors across three populations." *J Rheumatol*, 1987; **14(4)**: 705-709.
18. Altman R, **Bloch DA**, Bole G, Brandt K, Cooke D, Greenwald R, Hochberg M, Howell D, Kaplan D, Koopman W, McShane DJ, Mankin H, Medsger T, Meenan R, Mikkelsen W, Moskowitz R, Murphy W, Sokoloff L. "Development of clinical criteria for osteoarthritis." *J Rheumatol*, 1987; **14**: 3-6.
19. Altman R, Fries J, **Bloch DA**, Carstens J, Cooke T, Genant H, Gofton P, Groth H, McShane D, Murphy W, Sharp J, Spitz P, Williams C, Wolfe F. "Radiographic assessment of progression in osteoarthritis." *Arthritis Rheum*, 1987; **30(11)**: 1214-1224.
20. **Bloch DA**, Moses LE. "Non-optimally weighted least squares." *Am Statistician*, 1988; **42(1)**: 50-53.
21. Fries JF, **Bloch DA**, Segal MR, Spitz PW, Williams C, Lane N. "Post-marketing surveillance in rheumatology: analysis of purpura and upper abdominal pain." *J Rheumatol*, 1988; **15(2)**: 348-355.
22. Arnett F, Edworthy S, **Bloch DA**, McShane D, Fries J, Cooper N, Healey L, Kaplan S, Liang M, Luthra H, Medsger T, Mitchell D, Neustadt D, Pinals R, Schaller J, Sharp J, Wilder R, Hunder G. "The American Rheumatism Association 1987 revised criteria for the classification of rheumatoid arthritis." *Arthritis Rheum*, 1988; **31(3)**: 315-324.
23. Jariwalla, Sabin R, Lawson S, **Bloch DA**, Prender M, Andrews V, Herman Z. "Effects of dietary phytic acid (phytate) on the incidence of growth rate of tumors promoted in Fisher rats by a magnesium supplement." *Nutr Res*, 1988; **8**: 813-827.
24. Kraemer H, **Bloch DA** "Kappa coefficients in epidemiology: an appraisal of a reappraisal." *J Clin Epidemiol*, 1988; **41(10)**: 959-968.
25. Edworthy S, Zatarain E, McShane D, **Bloch DA**. "Analysis of the 1982 ARA lupus criteria data set by recursive partitioning methodology: new insights into the relative merit of individual criteria." *J Rheumatol*, 1988; **15(10)**: 1493 – 1498.

26. Fries J, Miller S, Spitz P, Williams C, Hubert H, **Bloch DA** "Toward an epidemiology of gastropathy associated with non-steroidal anti-inflammatory drug (NSAID) use." *Gastroenterology*, 1989; **96**: 647-655.
27. Edworthy S, **Bloch DA**, McShane D, Segal M, Fries J. "A state model of renal function in SLE: its value in the prediction of outcome in 292 subjects." *J Rheumatol*, 1989; **16(1)**: 29-35.
28. Fries JF, Singh G, **Bloch DA**, Colin A. "The natural history of ankylosing spondylitis: is the disease really changing?" *J Rheumatol*, 1989; **16**: 860-863
29. Schurman DJ, **Bloch DA**, Segal M, Tanner C. "Conventional cemented total hip arthroplasty: assessment of clinical factors associated with revision for mechanical failure." *Clin Orthop*, 1989; **240**: 173-180.
30. **Bloch DA**, Kraemer H. "2x2 kappa coefficients: measures of agreement or association." *Biometrics*, 1989; **45(1)**: 269-287.
31. Segal M, **Bloch DA** "A comparison of estimated proportional hazards models and regression trees." *Stat Med*, 1989; **8(5)**: 539-550.
32. Lane N, **Bloch DA**, Jones H, Simpson V, Fries J. "Osteoarthritis in the hand: a comparison of handedness and hand use." *J Rheumatol*, 1989; **16(5)**: 637-642.
33. Wysenbeek A, **Bloch DA**, Fries J. "Prevalence and expression of photosensitivity in systemic lupus erythematosus." *Ann Rheum Dis*, 1989; **48**: 461-463.
34. **Bloch DA**, Segal M. "Empirical comparison of approaches to forming strata: using classification trees to adjust for covariates." *J Am Stat Assoc*, 1989; **84(408)**: 897-905.
35. Lyon M, **Bloch DA**, Hollack B, Fries J. "Predisposing factors in polymyositis-dermatomyositis: results of a nation-wide survey." *J Rheumatol*, 1989; **16(9)**: 1218-1224.
36. Michel B, **Bloch DA**, Fries J. "Weight-bearing exercise, over exercise and lumbar bone density over age 50 years." *Arch Intern Med*, 1989; **149**: 2325-2329.
37. Kraemer H, **Bloch DA** "A note on case-control sampling to estimate kappa coefficients." *Biometrics*, 1990; **46(1)**: 49-59.
38. Fries JF, Spitz PW, Williams CA, **Bloch DA**, Singh G, Hurbert HB. "A toxicity index for comparison of side effects among different drugs." *Arthritis Rheum*, 1990; **33(1)**: 121-130.
39. Fries JF, Miller SR, Spitz PW, Williams CA, Hubert HB, **Bloch DA**. "Identification of patients at risk for gastropathy associated with NSAID use." *J Rheumatol*, 1990; **17(20)**: 12-19.
40. Lane N, **Bloch DA**, Hubert H, Jones H, Simpson U, Fries JF. "Running, osteoarthritis, and bone density: initial two-year longitudinal study." *Am J Med*, 1990; **88**: 452-459.
41. Maloney W, Schurman D, Hangen D, Goodman S, Edworthy S, **Bloch DA** "The influence of continuous passive motion in total knee arthroplasty." *Clin Orthop*, 1990; **256**: 162-168.

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