

**PAUL DAVID BAUM, M.D. Ph.D.**

**CURRICULUM VITAE**

Position            Assistant Adjunct Professor  
                         Division of Experimental Medicine  
                         Department of Medicine  
                         University of California, San Francisco School of Medicine

                         Attending Physician  
                         San Francisco General Hospital Positive Health Program  
                         Department of Medicine  
                         University of California, San Francisco School of Medicine

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**EDUCATION:**

1986-90 Harvard College, Cambridge, MA	A.B.	Magna Cum Laude History and Literature
1990-99 Harvard Medical School, Boston MA	M.D.	
1992-97 University of California, Berkeley	Ph.D.	Molecular & Cell Biology
1999-00 Stanford University	Intern	Medicine
2000-01 Stanford University	Resident	Medicine
2001-05 University of California, San Francisco	Fellow	Infectious Diseases

**LICENSES, CERTIFICATION**

2000    Medical licensure, California  
2003    Board Certification, Internal Medicine  
2005    Board Certification, Infectious Diseases

**PRINCIPAL POSITIONS HELD:**

2005-2007	University of California, San Francisco	Clinical Instructor	Medicine
2007-now	University of California, San Francisco	Assistant Adj. Professor	Medicine

**OTHER POSITIONS HELD CONCURRENTLY**

2002-05 Gladstone Institute of Virology and Immunology Postdoctoral Fellow

**HONORS AND AWARDS:**

1986 National Merit Scholar  
1987 John Harvard Scholarship  
2003 Pfizer Fellowship in Infectious Diseases  
2005 NIAID Keystone Symposium Fellowship  
2007 Young Investigator Award, Conference on Retroviruses and Opportunistic Infections

**KEYWORDS/AREAS OF INTEREST:**

Infectious diseases, immunology, HIV, T cells, genetic diversity, hybridization kinetics, AmpliCot, repertoire diversity

**PROFESSIONAL ACTIVITIES**

**CLINICAL**

Fellow, Infectious Diseases Consultation Services (UCSF, San Francisco VA, San Francisco General Hospital): I provided consultative services full-time for one year, and for four weekends the following year.

Fellow, San Francisco VA Infectious Diseases Clinic: I provided outpatient care one afternoon per week for one year and two afternoons per month for two years.

Fellow and Attending, San Francisco General Hospital Positive Health Practice Clinic: I have provided outpatient care one afternoon per week for the past three years, as well as occasional night call and urgent care shifts.

SUMMARY OF CLINICAL ACTIVITIES

I continue to maintain a panel of approximately 45 HIV-infected outpatients. I see these patients one afternoon per week in clinic, and maintain full-time responsibility for their HIV-related and primary care.

**PROFESSIONAL ORGANIZATIONS**

Memberships

2007-now International AIDS Society

Service to Professional Organizations

None

**SERVICE TO PROFESSIONAL PUBLICATIONS:**

Ad hoc reviewer for Journal of Infectious Diseases, AIDS, Journal of Experimental Medicine and Nucleic Acids Research.

**INVITED PRESENTATIONS**

INTERNATIONAL

2005 Keystone Symposium on HIV Pathogenesis  
2007 Conference on Retroviruses and Opportunistic Infections  
2007 International AIDS Society Conference on HIV Pathogenesis, Treatment and Prevention

NATIONAL

- 2004 Pfizer Fellowship Meeting
- 2005 Pfizer Fellowship Meeting
- 2007 National Institute of Allergy and Infectious Diseases

#### REGIONAL AND OTHER INVITED PRESENTATIONS

- 2003 Gladstone Institute Retreat
- 2003 UCSF Infectious Diseases Retreat
- 2003 Gladstone Institute of Virology and Immunology Research Seminar
- 2004 UCSF Department of Immunology Journal Club
- 2004 UCSF Infectious Diseases Fellows Training Course
- 2004 UCSF Infectious Diseases Retreat
- 2004 Gladstone Institute Retreat
- 2004 Gladstone Institute of Virology and Immunology Research Seminar
- 2004 UCSF Department of Immunology Research Presentation
- 2005 Gladstone Institute Retreat
- 2005 UCSF Department of Immunology Retreat
- 2005 San Francisco General Hospital Positive Health Program Grand Rounds
- 2005 Gladstone Institute of Virology and Immunology Research Seminar
- 2006 UCSF Infectious Diseases Retreat
- 2006 Scientific Advisory Board, Gladstone Institutes of Virology and Immunology
- 2006 San Francisco General Hospital Positive Health Program Grand Rounds
- 2006 UCSF Committee for AIDS Research
- 2007 San Francisco General Hospital Positive Health Program Grand Rounds
- 2007 Medicine Noon Conference, St Mary's Hospital, San Francisco

#### CME COURSES ATTENDED

- 2004 IAS-USA HIV Medicine, San Francisco
- 2005 Infectious Diseases Board Review Course, Tysons Corner, VA
- 2006 The Medical Management of AIDS, San Francisco
- 2006 American Medical Association Pain Medicine Course, online
- 2007 Conference on Retroviral and Opportunistic Infections, San Francisco

#### UNIVERSITY AND PUBLIC SERVICE

##### PUBLIC SERVICE

- 2006 Organizing Up Communities against Hepatitis ("OUCH")—vaccine outreach

##### SUMMARY OF SERVICE ACTIVITIES

I participated in several outreach missions to immunize high-risk individuals with hepatitis A and B vaccines.

#### TEACHING and MENTORING

##### INFORMAL TEACHING

- 2001-02 Supervision of residents and medical students as an infectious diseases fellow
- 2004 UCSF Infectious Diseases Fellows Training Course
- 2002-now Informal advising of graduate students on nucleic acid methods and career development
- 2004-now Presented monthly pre-clinic conferences for students, residents, fellows and visiting physicians in the San Francisco General Hospital Positive Health Care Clinic

##### TEXTBOOK

Gandhi M, Baum P, Hare CB, Caughey AB. *Blueprints: Microbiology and Immunology*, Oxford: Blackwell Publishing Ltd., 2002.

## RESEARCH AND CREATIVE ACTIVITIES

### RESEARCH AWARDS AND GRANTS

#### CURRENT

K23 AI073100 (PI) 5/1/07-4/30/12  
NIH/NIAID \$124,085 direct/yr 1  
Impact of HIV on the T Cell Repertoire \$624,335 direct/yrs 1-5

Innovative, Developmental Exploratory Award (PI) 9/1/07-8/31/09  
California HIV/AIDS Research Program \$50,000 direct/yr 1  
HIV's Impact on T Cell Receptor Diversity: New Analytic Methods \$100,000 direct/yrs 1-2

#### PAST

Pfizer Fellowship in Infectious Diseases (PI) 7/1/03-6/30/06  
Measuring and Reconstituting the Immune System in HIV-infected Adults \$65,000 direct/yr 1  
\$195,000 direct/yrs 1-3

### PEER REVIEWED PUBLICATIONS

1. Baum PD and Garriga G. Neuronal migrations and axon fasciculation are disrupted in *ina-1* integrin mutants. *Neuron* **19**: 51–62, 1997
2. Baum PD, Guenther C, Frank CA, Pham BV, Garriga G. The *Caenorhabditis elegans* gene *ham-2* links Hox patterning to migration of the HSN neuron. *Genes and Development* **13**: 472–483, 1999
3. Frank CA, Baum PD, Garriga G. HLH-14 is a *C. elegans* achaete-scute protein that promotes neurogenesis through asymmetric cell division. *Development* **130**: 6507–18, 2003
4. Baum PD and McCune JM. Direct measurement of T cell receptor repertoire diversity with AmpliCot: a novel automated assay that uses hybridization kinetics to measure the sequence diversity of PCR products. *Nature Methods* **3**: 895-901, 2006
5. Pan CL, Baum PD, Gu M, Jorgensen EM, Clark SG, Garriga G. *C. elegans* AP-2 and Retromer Control Wnt Signalling by Regulating MIG-14/Wntless. *Developmental Cell* **14**: 132-139, 2008
6. Napolitano LA, Schmidt D, Gotway MB, Ameli N, Filbert EL, Ng MM, Clor JL, Epling L, Sinclair E, Baum PD, Li K, Killian ML, Bacchetti P., McCune JM. Growth hormone enhances thymic function in HIV-1-infected adults. *Journal of Clinical Investigation* doi:10.1172/JCI32830, 2008

### NON-PEER REVIEWED PUBLICATIONS AND OTHER CREATIVE ACTIVITIES:

Gandhi M, Baum P, Hare CB, Caughey AB. *Blueprints: Microbiology and Immunology*, Oxford: Blackwell Publishing Ltd., 2002.

### OTHER CREATIVE ACTIVITIES:

Webpage: <http://amplicot.ucsf.edu> has had >500 unique visitors from 6 continents.