

Rachael P. Jackman, Ph.D.

Post Doctoral Research Fellow

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Education:

Blood Systems Research Institute

2008 -

Post Doctoral Fellowship Training

Research Advisor: Philip Norris

Yale University

2001 - 2007

PhD, Department of Immunobiology

Degree completed January 2007, formally awarded May 2007

Dissertation: CTLA-4 and the Immunological Synapse in T_H1 and T_H2 cells

Dissertation Advisor: Kim Bottomly

M.S. and M.Phil, Department of Immunobiology, May 2004

University of California, Berkeley

1995 - 1999

B.A. with Honors and Distinction, May 1999

Major in Molecular and Cell Biology, Emphasis in Immunology

Honors Thesis: HLA Class I Association with Coccidioidomycosis Disease

Severity in California

Thesis Advisor: Leslie Louie

Research Experience:

March 2008 - Current

Post Doctoral Research Fellow, Dr. Philip Norris's Laboratory, studying the immunology of transfusion-associated microchimerism.

February 2007 - July 2007

Post Doctoral Associate, Dr. Kim Bottomly's Laboratory, examining the effects of differential synapse organization on T and B cell function.

May 2002 - January 2007

Graduate Student, Dr. Kim Bottomly's Laboratory, studying CD4 T cell effector subset differentiation and function. Research focused on the organization, regulation, and function of the immunological synapse in T_H1 and T_H2 cell subsets, and on the differential expression and role of CTLA-4.

May 1998 - July 2001

Research Lab Assistant, Dr. Leslie Louie's Laboratory, first in the School of Public Health at the University of

California, Berkeley, and, from October of 1999 on, at the Children's Hospital Oakland Research Institute. Research focused on the association of HLA genotype with infectious diseases including Coccidioidomycosis, HIV, and Tuberculosis. Work included genotyping of human subjects at the HLA loci, statistical analysis of these data, writing, formal presentations, and training of undergraduates.

May, 1997-May, 1998

Lab Assistant, Dr. Greg Aponte's Laboratory, in the Department of Nutrition at the University of California, Berkeley. Job duties consisted primarily of maintaining some of the lab cell lines (Rat epithelial cells), with some tissue and protein work done as well, examining expression of neurotransmitters in gut tissue.

Awards and Fellowships:

- NIH Training Grant Recipient (2001-2004)
- Graduation with Honors and Distinction from the Department of Molecular and Cellular Biology at the University of California at Berkeley (1999)
- Outstanding Molecular and Cellular Biology Researcher Award at the University of California at Berkeley (1999)
- University of California, Berkeley Alumni Scholarship (1995-1997)
- University of California, Berkeley F. Ahellas Honorary Scholarship
- Dean's Honors List at the University of California, Berkeley

Academic Service and Professional Memberships:

Spring 2007 - Current	Member of The New York Academy of Sciences
Spring 2006 - Current	Member of the American Association of Immunologists
Spring 2006 - Summer 2007	Yale University, Provost's Office Worklife Child Care Sub-Committee

Publications:

- Jackman, R. P., Balamuth, F, Bottomly, K. (2007). "CTLA-4 differentially regulates the immunological synapse in CD4 T cell subsets." *Journal of Immunology*. **178**(9): 5543-51.
- Louie, L. G., W. E. Hartogensis, R. P. Jackman, K. A. Schultz, L. S. Zijenah, C. H. Yiu, V. D. Nguyen, M. Y. Sohsman, D. K. Katzenstein, and P. R. Mason. (2004). "Mycobacterium tuberculosis/HIV-1 coinfection and disease: role of human leukocyte antigen variation." *Journal of Infectious Disease* **189**(6): 1084-90.

Presentations:

- The 2006 Annual Meeting of the American Association of Immunologists (AAI), May 2006, Boston, MA, abstract # 264
- 44th Annual Meeting of the Coccidioidomycosis Study Group, April 2000, Berkeley, CA, abstract # 13
- 32nd Annual Meeting of the Society for Epidemiologic Research, June 1999, Baltimore, MD, abstract # 306
- 25th Annual Meeting of the American Society for Histocompatibility and Immunogenetics, October 1999, New Orleans, LA, abstract # 79

Teaching:

- Fall 2002 Teaching Assistant for *Biology of the Immune System*: A general graduate level course in immunology. Led a discussion section for a group of approximately 20 graduate students, assisted in restructuring of course, as well as writing and grading of problem sets and exams.
- Fall 2003 Teaching Assistant for *An Issues Approach to Biology*: Led and developed new curriculum for a discussion section covering a wide range of topics in biology for non-science majors. Included instruction in scientific principles and ethics, facilitation of discussion, generation and evaluation of projects, and grading exams.