

**University of California San Francisco
CURRICULUM VITAE**

Name: Barbara Lynn Haller

Position: HS Clinical Professor, Step 2
Department of Laboratory Medicine
School of Medicine
University of California, San Francisco

Interim Director, Clinical Laboratories and
Chief of Microbiology, Clinical Laboratories
Zuckerberg San Francisco General

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EDUCATION:

1971-75	Cornell University, Ithaca, NY	B.A.	Biology
1976-83	University of Minnesota, Minneapolis, MN Advisor: James A. Fuchs, Ph.D.	Ph.D.	Genetics
1983-86	University of California, Santa Barbara	Fellow	Biological Sciences
1986-90	St. Louis Univ. School of Med., St. Louis, MO	M.D.	
1990-94	Washington U. School of Med., St. Louis, MO	Resident	Clinical Pathology

LICENSES, CERTIFICATION:

1994-2001	Tennessee, Medical License Number 25778 – Retired 2001
1996	Board Certification in Clinical Pathology, American Board of Pathology
2000-now	California, Medical License Number G85865

PRINCIPAL POSITIONS HELD:

1994-2000	Univ. of Tennessee, Memphis	Assistant Professor	Pathology
2000-2005	Univ. of California, San Francisco	Assistant Professor	Laboratory Medicine
2005-2011	Univ. of California, San Francisco	HS Assoc Clin Professor	Laboratory Medicine
2011-now	Univ. of California, San Francisco	HS Clinical Professor	Laboratory Medicine

OTHER POSITIONS HELD CONCURRENTLY:

1994-2000	VA Medical Center, Memphis	Director, Micro/Immuno	Pathology Service
1996-2000	VA Medical Center, Memphis	Director, Clinical Labs	Pathology Service
2000-now	Zuckerberg San Francisco General	Chief of Microbiology	Clinical Laboratory
2015-now	Zuckerberg San Francisco General	Interim Lab Director	Clinical Laboratory

HONORS AND AWARDS:

- 1978-81 Recipient, NIH National Research Service Award
- 1983-86 Recipient, NIH Individual National Research Service Award
- 1988 Elected to Alpha Sigma Nu, The National Jesuit Honor Society
- 1988 1st Place Winner, AOA Student Research Forum, St. Louis Univ. School of Med.
- 1989 Elected to Phi Kappa Phi Honor Society
- 1990 Mueller-Pecha Award for Best Research, Graduating Senior, SLU Medical School
- 1990 Pathology Departmental Award, Graduating Senior, SLU Medical School
- 1993 Young Investigator Award, Academy of Clinical Laboratory Physicians and Scientists
- 2003 Marilyn Coward Award, Northern California Branch of the American Society for Microbiology
- 2012 Marilyn Coward Award, Northern California Branch of the American Society for Microbiology
- 2012 Nominated for 2012 Robert Lull Award for a non-Medicine consultant for excellence in teaching and consultation, San Francisco General Department of Medicine

KEYWORDS/AREAS OF INTEREST:

Diagnostic microbiology, diagnostic virology, serology, HIV diagnostic testing, viral load testing, molecular diagnostics, test utilization, resident and medical student education

PROFESSIONAL ACTIVITIES

CLINICAL

Chief of Microbiology, San Francisco General Hospital since 2000: I supervise all activities in the Microbiology Laboratory including development and approval of all new testing in Microbiology, Serology, and Molecular Diagnostics. I am responsible for management of Microbiology Supervisors and staff to ensure high quality, cost-effective diagnostic testing for infectious diseases. I regularly consult with other services at SFGH (Infectious Diseases, Infection Control, Medicine, Pediatrics, OB/GYN, and Surgery) to discuss Microbiology/Serology/ Molecular Diagnostics testing issues that affect patient care and I supervise Microbiology test approvals by Laboratory Medicine Residents. In addition, I work closely with Infection Control personnel at SFGH to monitor and control antibiotic resistance and healthcare-associated infections at SFGH.

Interim Laboratory Director Zuckerberg San Francisco General Hospital since July, 2015: I am responsible for oversight of all point-of-care testing for the hospital and clinics, the Specimen and Collection Management division, phlebotomy services, Information Technology, and Lab Support Services. I consult with clinicians requesting unusual or new testing services and work closely with the faculty, residents, and administration staff to address clinical questions or problems with in-house laboratory testing or send-out testing. I address regulatory issues including approval of IQCP procedures, Joint Commission and State regulations for the clinical laboratory.

SUMMARY OF CLINICAL ACTIVITIES

During the past 2 years, I have been responsible for implementing new real-time PCR assays for Hepatitis B and Hepatitis C viral load testing in the clinical laboratory. I oversaw an extensive evaluation of several new rapid immunochromatographic assays for detection of HIV infection. In serology, we validated antibody testing for infectious diseases on a new immunoassay analyzer. With Dr. Luke Davis in Pulmonary and Acute Care, I applied for and was awarded money from the San Francisco General Foundation to purchase a GeneXpert instrument which is a real-time PCR instrument used for detection of *Clostridium difficile* infection and influenza A and influenza B viruses in respiratory specimens. We have also implemented use of a new cartridge on the GeneXpert instrument designed to detect *Mycobacterium tuberculosis* in respiratory specimens. I worked closely with the Infectious Diseases group and the Infection Control group to implement policies and procedures for *C. difficile* testing. I worked closely with the Infection Control group to set up nasal swab screening for methicillin-resistant *Staphylococcus aureus* (MRSA) for important

patient populations at ZSFG. I continue to consult with clinicians and hospital staff on difficult cases and make recommendations for appropriate testing in the clinical microbiology laboratory.

PROFESSIONAL ORGANIZATIONS

National/International Memberships

1994-now American Society for Microbiology
1994-now Academy of Clinical Laboratory Physicians and Scientists
2000-now Infectious Disease Society of America
2000-now Pan American Society for Clinical Virology
2008-now College of American Pathologists

Local Memberships

2000-now Northern California American Society for Microbiology
2000-now Bay Area Microbiology Laboratory Directors Group

SERVICE TO PROFESSIONAL ORGANIZATIONS

2004-2006 Academy of Clinical Laboratory Physicians and Scientists – Member, Publications Committee
2004-2006 Academy of Clinical Laboratory Physicians and Scientists – Clinical Pathology Curriculum Committee, Chair of Microbiology/Virology Section
2006-2009 Academy of Clinical Laboratory Physicians and Scientists – Member, Executive Council
2008-2013 College of American Pathologists – Member, Point of Care Testing Committee
2008-now Clinical and Laboratory Standards Institute – Observer, Area Committee on Molecular Methods
2009-2011 Clinical and Laboratory Standards Institute – Advisor, Subcommittee on (M53): Criteria for Lab Testing and Diagnosis of HIV Infection
2012-now Clinical and Laboratory Standards Institute – Vice Chair, Workgroup for Point-of-Care Testing in Microbiology
2013-now Northern California American Society for Microbiology, Treasurer

SERVICE TO PROFESSIONAL PUBLICATIONS

2003-now Ad hoc reviewer, Journal of Clinical Microbiology
2003-now Ad hoc reviewer, Journal of Clinical Virology
2006-now Ad hoc reviewer, Annals of Clinical Microbiology and Antimicrobials

INVITED PRESENTATIONS:

INTERNATIONAL

Makerere University/UCSF Collaborative Research Project Training Program for Diagnosis of Pneumocystis and TB (lectures); Makerere University, Kampala, Uganda, March 26-30, 2007

NATIONAL

2004 Resistance Challenges Workshop; sponsored by AB BIODISK (Lectures Seattle, WA, San Diego, CA, and Pasadena, CA)
2005 Resistance Testing Challenges Conference; sponsored by AB BIODISK (Lectures San Mateo, CA, San Diego, and Pasadena, CA)
2011 CAP '11, College of American Pathologists Annual Meeting (lecture)
2012 47th Annual ACLPS Meeting, Microbiology MALDI-TOF and Case Conference (moderator)
2012 CAP' 12, College of American Pathologists Annual Meeting (lecture)
2013 CAP' 13, College of American Pathologists Annual Meeting (lecture)

REGIONAL AND OTHER INVITED PRESENTATIONS

- 2005 Microbiology Workshop (sponsored by Hardy Diagnostics), Walnut Creek, CA
- 2006 SFGH Continuing Education Talk for Clinical Laboratory Scientists
- 2006 Infectious Diseases Grand Rounds, San Francisco General Hospital
- 2006 East Bay Infectious Disease Society
- 2007 Core Conference Talk for UCSF Infectious Disease Fellows
- 2007 SFGH Continuing Education Talk for Clinical Laboratory Scientists
- 2008 SFGH Continuing Education Talk for Clinical Laboratory Scientists
- 2008 HIV Think Tank (sponsored by California Office of AIDS), Emeryville, CA
- 2009 Symposium on Healthcare Associated Infections (sponsored by bioMerieux), San Ramon, CA
- 2012 Northern California Branch of the American Society for Microbiology Spring Meeting: Marilyn Coward Fund Lecture
- 2012 Discovery Workshop (sponsored by ThermoScientific), San Mateo, CA
- 2012 Northern California Infection Control Meeting, Santa Clara, CA

UNIVERSITY SERVICE**DEPARTMENTAL SERVICE (Laboratory Medicine):**

- 2002-2010 Member, Grand Rounds Committee
- 2002-now Member, Residency Teaching Committee
- 2002-now Ad hoc Interviewer for Residency Selection
- 2003-2004 Member, Academic Search Committee, SFGH Clinical Chemistry Position
- 2005-2008 Residency Site Director at SFGH
- 2015-now Residency Site Director at SFGH
- 2007-now Member, Academic Promotions Committee, Dept. of Laboratory Medicine

CAMPUS SERVICE (Zuckerberg San Francisco General, San Francisco, CA):

- 2000-now Member, Infection Control Committee
- 2000-now Member, Antibiotic Subcommittee
- 2002 Member, Selection Committee for Clinical Laboratory Senior Supervisor in Phlebotomy/Processing Area
- 2002 Chair, Committee for Laboratory Special Performance Awards
- 2003-2005 Member, SFGH Bioterrorism Committee
- 2003-now SFGH Laboratory Safety Officer
- 2003-now Member, SFGH Employee Health and Safety Committee
- 2004-now Member, SFGH IV Drug Use Abscess Treatment Committee
- 2004 Chair, Committee for Laboratory Special Performance Awards
- 2005-now Member, SFGH Environment of Care Committee
- 2011-now Chair, SFGH Clinical Lab People Workgroup
- 2015-now Member, ZSFG Medical Executive Committee
- 2015-now Member, ZSFG Credentials Committee
- 2015-now Member, ZSFG OR Committee
- 2015-now Member, ZSFG Utilization Management Committee
- 2015-now Member, ZSFG Clinical Practice Group

OTHER SERVICE

- 2002-now Member, External Advisory Committee for UC Berkeley Center for Infectious Disease Preparedness
- 2003-now Consultant, UCB/UCSF NIH Fogarty International AIDS Training Grant
- 2009-2012 Member, Lab Aspire Advisory Committee for Calif. Dept. of Public Health Fellowship Program
- 2011-now Member, PICSII Steering Committee, San Francisco Department of Public Health
- 2015 Member, Selection Committee for Lab Director for SF Dept. of Public Health

SUMMARY OF SERVICE ACTIVITIES

I continue to be involved in the departmental residency teaching committee and I assist with interviews and the resident selection process when needed. Since 2007, I have served as a member of the Department of Laboratory Medicine Academic Promotions Committee. At SFGH, I continue to be an active member of the hospital Infection Control Committee and the Antibiotic Subcommittee where recommendations on antimicrobial agents. As the Lab Safety Officer at San Francisco General Hospital, I am an active member of the Environment of Care Committee and the Employee Health and Safety Committee at SFGH. Since 2011, I have been serving as the Chair of the People Workgroup in the Clinical Laboratory at SFGH. This Workgroup has been addressing staff concerns and issues in order to promote a team spirit in the laboratory. Issues about construction of the new SFGH hospital and how the new hospital will impact patient care, laboratory services, and staff satisfaction have all been discussed. I have also participated as a member of the PICS Steering Committee for the Department of Public Health as the Department reorganizes to meet the challenges of the Affordable Healthcare act.

A very rewarding experience was my participation as a member of the College of American Pathologist (CAP) Point-of-Care Testing (POCT) Committee. This committee has been involved in development of CAP inspection checklists questions and creation of the POCT toolkit which serves as a training guide on POCT for pathologists on the CAP website. I am serving on several CLSI committees as an Observer for the Molecular Methods Committee, as an Advisor on the Subcommittee developing criteria for Lab Testing and Diagnosis of HIV Infection, and as Vice Chair of the Workgroup creating a guide for point-of-care testing for infectious diseases.

As Interim Director of the ZSFG Clinical Laboratory, I have been a member of several important hospital leadership committees including the Medical Executive Committee, the Clinical Practice Group, the ZSFG Credentials Committee, and the Utilization Management Committee.

TEACHING and MENTORING:**FORMAL SCHEDULED UCSF CLASSES:**

Academic Yr	Course No. & Title	Teaching Contribution	Units	Class Size
2007-2008	140.01 Principles of Laboratory Medicine	Supervise training in Clinical Microbiology (1 week for each student)	1	26 med students
2008-2009	140.01 Principles of Laboratory Medicine	Supervise training in Clinical Microbiology (1 week for each student)	1	30 med students
2009-2010	140.01 Principles of Laboratory Medicine	Supervise training in Clinical Microbiology (1 week for each student)	1	33 med students
2010-2011	140.01 Principles of Laboratory Medicine	Supervise training in Clinical Microbiology (1 week for each student)	1	30 med students
2011-2012	140.01 Principles of Laboratory Medicine	Supervise training in Clinical Microbiology (1 week for each student)	1	38 med students
2012-2013	140.01 Principles of Laboratory Medicine	Supervise training in Clinical Microbiology (1 week for each student)	1	33 med students
2013-2014	140.01 Principles of Laboratory Medicine	Supervise training in Clinical Microbiology (1 week for each student)	1	30 med students

2014-2015	140.01 Principles of Laboratory Medicine	Supervise training in Clinical Microbiology (1 week for each student)	1	28 med students
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FORMAL SCHEDULED UCSF CLASSES:

Academic Yr	Course No. & Title	Teaching Contribution	Units	Class Size
Summer 2003	140.08 Lab Medicine Microbiology	Taught intensive 4 week elective in Clinical Microbiology	1	1 medical student Raga Ramachandran
Summer 2004	140.08 Lab Medicine Microbiology	Taught intensive 4 week elective in Clinical Microbiology	1	1 medical student Scott Young
Fall 2006	140.08 Lab Medicine Microbiology	Taught intensive 4 week elective in Clinical Microbiology	1	1 medical student Azadeh Khatibi
Winter 2007	140.08 Lab Medicine Microbiology	Taught intensive 4 week elective in Clinical Microbiology	1	1 medical student Fong Liu
Summer 2008	140.08 Lab Medicine Microbiology	Taught intensive 4 week elective in Clinical Microbiology	1	1 medical student Darcy Wooten
Summer 2010	140.08 Lab Medicine Microbiology	Taught intensive 4 week elective in Clinical Microbiology	1	1 medical student Michael Wongchaowart
Spring 2011	140.08 Lab Medicine Microbiology	Taught intensive 4 week elective in Clinical Microbiology	1	1 medical student Bhavesh Moody
Fall 2013	140.08 Lab Medicine Microbiology	Taught intensive 4 week elective in Clinical Microbiology	1	1 medical student Mara (Jana) Broadhurst
Fall 2008	IDS 105 Infection, Immunity and Inflammation	Facilitated 9 small group teaching sessions	1	12-14 medical students per group

PREDOCTORAL STUDENTS SUPERVISED OR MENTORED:

Dates	Name	School	Role
1996-98	Yongjin Chen	Univ. of Tennessee Graduate School	Member, PhD Thesis Committee
1996-99	Luzhen Liu	Univ. of Tennessee Graduate School	Member, PhD Thesis Committee
1998-2000	Mark Hughes	Univ. of Tennessee Graduate School	Member, PhD Thesis Committee
1998-2001	Jong Gwan Kim	Univ. of Tennessee Graduate School	Member, PhD Thesis Committee

2010-now	Alfred Andama	Graduate Student at Makerere University, Kampala, Uganda	Support for research for PhD Degree
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POSTDOCTORAL LABORATORY MEDICINE AND PEDIATRIC RESIDENTS DIRECTLY SUPERVISED:

Dates	Name	Resident	Role
July-Aug 2010	Michael Angelo	Laboratory Medicine	Supervised training in Clinical Microbiology
Sept-Oct 2010	Tara Saunders	Laboratory Medicine	Supervised training in Clinical Microbiology
Nov-Dec 2010	Arun Wiita	Laboratory Medicine	Supervised training in Clinical Microbiology
Jan-Feb 2011	Christopher Liverman	Laboratory Medicine	Supervised training in Clinical Microbiology
Mar-Apr 2011	Vijay George	Laboratory Medicine	Supervised training in Clinical Microbiology
Apr 2011	Judith Oh	Pediatrics	Supervised training in Clinical Microbiology
May-June 2011	Michael Nystrom	Laboratory Medicine	Supervised training in Clinical Microbiology
July-Aug 2011	Mima Geere	Laboratory Medicine	Supervised training in Clinical Microbiology
Sept-Oct 2011	Gillian Genrich	Laboratory Medicine	Supervised training in Clinical Microbiology
Nov-Dec 2011	Taylor Sittler	Laboratory Medicine	Supervised training in Clinical Microbiology
Jan-Feb 2012	Geoff Wool	Laboratory Medicine	Supervised training in Clinical Microbiology
Mar-Apr 2012	Tab Toochinda	Laboratory Medicine	Supervised training in Clinical Microbiology
May-June 2012	Cyril Jacquot	Laboratory Medicine	Supervised training in Clinical Microbiology
July-Aug 2012	Jessica Davis	Laboratory Medicine	Supervised training in Clinical Microbiology
Sept-Oct 2012	Kristie White	Laboratory Medicine	Supervised training in Clinical Microbiology
Nov-Dec 2012	Stephen Nobles	Laboratory Medicine	Supervised training in Clinical Microbiology
Jan 2013	Alison Kuchta	Pediatrics	Supervised training in Clinical Microbiology
Jan-Feb 2013	Jessica Farell	Laboratory Medicine	Supervised training in Clinical Microbiology
Mar-Apr 2013	Jonathan Esensten	Laboratory Medicine	Supervised training in Clinical Microbiology
Apr 2013	Patrick Peebles	Pediatrics	Supervised training in Clinical Microbiology
May-June 2013	Christie Perez-Valles	Laboratory Medicine	Supervised training in Clinical Microbiology
July-Aug 2013	Dianna Ng	Laboratory Medicine	Supervised training in Clinical Microbiology

Sept-Oct 2013	Joshua Menke	Laboratory Medicine	Supervised training in Clinical Microbiology
Nov-Dec 2013	Anna Plourde	Laboratory Medicine	Supervised training in Clinical Microbiology
Jan-Feb 2014	Jamal Benhamida	Laboratory Medicine	Supervised training in Clinical Microbiology
Mar-Apr 2014	Alex Thurman	Laboratory Medicine	Supervised training in Clinical Microbiology
May-June 2014	Jonee Taylor	Laboratory Medicine	Supervised training in Clinical Microbiology
July-Aug 2014	Michelle Moh	Laboratory Medicine	Supervised training in Clinical Microbiology
Sept-Oct 2014	Patricia Goldhoff	Laboratory Medicine	Supervised training in Clinical Microbiology
Nov-Dec 2014	Ben Buelow	Laboratory Medicine	Supervised training in Clinical Microbiology
Jan-Feb 2015	Yuna Kang	Laboratory Medicine	Supervised training in Clinical Microbiology
Mar-Apr 2015	Carey Eberle	Laboratory Medicine	Supervised training in Clinical Microbiology

POSTDOCTORAL FELLOWS DIRECTLY SUPERVISED:

Dates	Name	Fellow	Role	Current Position
2002-2003	Emmanuel Mournianakis, MD	Post-Doc Fellow in Clinical Microbiology and Lab Medicine	Intensive training in the Clinical Microbiology Lab	Laboratory Director in Greek Navy
9/2009-10/2009	Nicole Green, PhD	Calif. State Postdoctoral Fellow in Clinical Microbiology	Intensive training in the Clinical Microbiology Lab	Assistant Director, Los Angeles Dept. of Public Health
11/2009-1/2010	Robert Tran, PhD	Calif. State Postdoctoral Fellow in Clinical Microbiology	Intensive training in the Clinical Microbiology Lab	
1/2011-2/2011	Zenda Berrada, PhD	Calif. State Postdoctoral Fellow in Clinical Microbiology	Intensive training in the Clinical Microbiology Lab	Assistant Director, San Mateo Dept. of Public Health
2/2011-4/2011	Kate Wainwright, PhD	Calif. State Postdoctoral Fellow in Clinical Microbiology	Intensive training in the Clinical Microbiology Lab	
1/2012-2/2012	Errin Rider, PhD	Calif. State Postdoctoral Fellow in Clinical Microbiology	Intensive training in the Clinical Microbiology Lab	
4/2012	Felicia Chow, MD	Neurology ID Fellow	Intensive training in the Clinical Microbiology Lab	UCSF Faculty
10/2012-12/2012	Shantelle Lucas, PhD	Calif. State Postdoctoral Fellow in Clinical Microbiology	Intensive training in the Clinical Microbiology Lab	

INFORMAL TEACHING:

- 2001-now Microbiology/Serology/Molecular Diagnostics - Weekly 1-1.5 hour teaching rounds with Lab Medicine residents, Micro Fellows, and medical students (review of plates and organisms in all Microbiology Lab areas)
- 2001-now Microbiology/Serology/Molecular Diagnostics - Supervision of weekly 1 hour Plate Rounds with Lab Medicine Resident and SFGH Infectious Disease Team (ID Fellows, residents, medical students) with demonstration of Microbiology procedures and clinical correlation
- 2001-now Microbiology/Serology/Molecular Didactics – Presentation of weekly 1 hour Didactic Lecture on Microbiology topics for the Lab Medicine Residents, Fellows and medical students
- 2001-now Participation in weekly 1 hour conference to review Lab Medicine Resident calls from the SFGH on-call pager with Lab Medicine Faculty, residents, Fellows, and Medical Students
- 2001-now 1-2 Continuing Education talks for laboratory technologists each year (1 hour each)
- 2005-now Yearly Boards Review in Clinical Microbiology for Lab Medicine Residents (1.5-2 hours)
- 2010 Lab Medicine Resident Core Lectures in Mycobacteriology and Mycology (1-1.5 hours each)
- 2010 UCSF Infectious Diseases Fellows Introduction to Clinical Microbiology Session (4 hours each) - Mycobacteriology and Mycology
- 2011 Lab Medicine Resident Core Lectures in Mycobacteriology, Mycology, Blood Cultures
- 2011 UCSF Infectious Diseases Fellows Introduction to Clinical Microbiology Session (4 hours each) - Mycobacteriology and Mycology
- 2012 Lab Medicine Resident Core Lectures in Mycobacteriology, Mycology
- 2012 UCSF Infectious Diseases Fellows Introduction to Clinical Microbiology Session (4 hours each) - Mycobacteriology and Mycology
- 2013 UCSF Infectious Diseases Fellows Introduction to Clinical Microbiology Session (4 hours each) - Mycobacteriology and Mycology
- 2013 Lab Medicine Resident Core Lectures in Mycobacteriology, Mycology
- 2014 UCSF Infectious Diseases Fellows Introduction to Clinical Microbiology Session (4 hours each) - Mycobacteriology and Mycology
- 2014 Lab Medicine Resident Core Lectures in Mycobacteriology, Mycology
- 2015 Lab Medicine Resident Core Lectures in Mycobacteriology, Mycology, Blood Cultures

SUMMARY OF TEACHING DUTIES:

Last Academic Year (2014-2015)

Total hours of teaching: 415 hours

Didactic teaching hours: 65 hours

Laboratory/Clinical teaching hours (note residents and medical students taught simultaneously): 350 hours

This Academic Year (2015-2016)

Total hours of teaching: 390 hours

Didactic teaching hours: 65 hours

Laboratory/Clinical teaching hours (note residents and medical students taught simultaneously): 325 hours

SUMMARY OF TEACHING DUTIES, CONTINUED:

Next Academic Year (2016-17)

Total hours of teaching: 390 hours

Didactic teaching hours: 65 hours

Laboratory/Clinical teaching hours (note residents and medical students taught simultaneously): 325 hours

TEACHING NARRATIVE

During 2013-2014, I was responsible for training 12 Laboratory Medicine Residents (2 months each) and two Pediatric Residents (1 week each) in Clinical Microbiology. Each week, I supervise and participate in the Microbiology/Infectious Diseases Plate Rounds which includes demonstrations and discussion of interesting cases with the Infectious Diseases Fellows, Medicine Residents, and medical students. I continue to teach a 1 week introduction to clinical microbiology for medical students who take the 140.01 Laboratory Medicine elective. Since 2011, we have had more than 50 medical students take this course. In 2013, I had one medical student take the 4 week Microbiology elective where she received intensive training in clinical microbiology. I mentored and advised Mr. Alfred Andama during his graduate work to earn his Masters Degree at Makerere University in Kampala, Uganda. Mr. Andama is now pursuing a PhD in Microbiology and I have reviewed his research proposal and offered testing advice. I continue to give core lectures for the Laboratory Medicine residents each year and present cases and information for the Boards Review in Microbiology for residents each year. I give lectures and lab demonstrations for the new Infectious Diseases fellows each July. I give 1-2 continuing education lectures for laboratory technologists each year.

RESEARCH AWARDS, GRANTS, CONTRACTS:

1. Service-Clinical Contract (PI)7/1/02-4/30/03 ICU Surveillance Study	Merck	\$3,276
2. Service-Clinical Contract (PI)7/1/02-6/30/03 Daiichi Multi-Center Study of selected antimicrobials against selected organisms	Daiichi	\$4,097
3. Service-Clinical Contract (PI)7/1/03-4/30/04 ICU Surveillance Study	Merck	\$3,276
4. Service-Clinical Contract (PI)7/1/04-4/30/05 ICU Surveillance Study	Merck	\$3,276
5. Service-Clinical Contract (PI)6/17/05-6/16/06	BioRad	\$173,972
6. Service-Clinical Contract (PI)4/12/07-4/12/08 ICU/Non-ICU Surveillance Study	Merck	\$3,276
7. Award from SFGH Foundation to purchase GeneXpert instrument (with Pulmonary Dept.)	SFGH	\$120,000
8. AIDS Clinical Trial Group (ACTG) Study of GeneXpert MTB/RIF Test 2012-2013 (P.I. was Dr. Annie Luetkemeyer, B.H. Investigator)	ACTG	\$230,000
9. UCSF Caring Wisely Initiative, "Reducing Unnecessary Respiratory Isolation in Patients with Possible TB in the ED", 2014-2015	UCSF	\$50,000

PEER REVIEWED PUBLICATIONS:

1. Haller, B. L., and J. A. Fuchs. Mapping of *trxB*, a mutation responsible for reduced thioredoxin activity. *J. Bacteriology* (1984) 159: 1060-1062.
2. Lim, C. J., B. Haller, and J.A. Fuchs. Thioredoxin is the bacterial protein encoded by *fip* that is required for filamentous bacteriophage f1 assembly. *J. Bacteriology* (1985) 161: 799-802.
3. Lovlie, A., B.L. Haller, and E. Orias. Molecular evidence for somatic recombination in the ribosomal DNA of *Tetrahymena thermophila*. *Proc. Natl. Acad. Sci. USA* (1988) 85:5156-5160.
4. Orias, E., D. Larson, Y.F. Hu, G.L. Yu, J. Karttunen, A. Lovlie, B. Haller, and E.H. Blackburn, Replacement of the macronuclear ribosomal RNA genes of a mutant *Tetrahymena* using electroporation. *Gene* (1988) 70:295-301.
5. Haller, B.L., K.A. Fuller, W.S. Brown, J.W. Koenig, B.J. Eveland, and M.G. Scott. Two automated prolactin immunoassays evaluated with demonstration of a high-dose "hook effect" in one. *Clinical Chemistry* (1992) 38: 437-438.
6. Haller, B.L., M.L. Barkon, G.P. Vogler, and H.W. Virgin IV. Genetic mapping of reovirus virulence and organ tropism in Severe Combined Immunodeficient mice: Organ-specific virulence genes. *J. Virology* (1995) 69: 357-364.
7. Haller, B.L., M.L. Barkon, X.-Y. Li, W.M. Hu, J.D. Wetzel, T.S. Dermody, and H.W. Virgin IV. Brain and intestine-specific variants of reovirus serotype 3 strain Dearing are selected during chronic infection of Severe Combined Immunodeficient mice. *J. Virology* (1995) 69: 3933-3937.
8. Barkon, M.L., B.L. Haller, and H.W. Virgin IV. Circulating Immunoglobulin G can play a critical role in clearance of intestinal reovirus infection. *J. Virology* (1996) 70: 1109-1116.
9. Visosky, A.M., A.H. Murr, V. Ng, T. Dentoni, L. Weir, and B.L. Haller. Multiple-use atomizers in outpatient otolaryngology clinics are not necessarily an infectious risk. *Otolaryngology Head Neck Surg.* (2003) 128: 447-451.
10. Pan, E.S., B.A. Diep, H.A. Carleton, E.D. Charlebois, G.F. Sensabaugh, B.L. Haller, and F. Perdreau-Remington. Increasing Prevalence of Methicillin-Resistant *Staphylococcus aureus* Infection in California Jails. *Clin. Inf. Dis.* (2003) 37: 1384-1388.
11. Winston, L.G., S. Pang, B.L. Haller, M. Wong, H.F. Chambers, and F. Perdreau-Remington. API 20 Strep Identification System May Incorrectly Speciate Enterococci with Low Level Resistance to Vancomycin. *Diag. Micro. Inf. Dis.* (2004) 48: 287-288.
12. Elbeik, T., N. Markowitz, P. Nassos, U. Kumar, S. Beringer, B. Haller, and V. Ng. Simultaneous Run of the Bayer VERSANT HIV-1 Version 3.0 and HCV bDNA Version 3.0 Quantitative Assays on the System 340: Reliable Quantitation with Improved Work Flow. *J. Clin. Micro.* (2004) 42: 3120-3127.
13. Ohm-Smith, M.J., P.S. Nassos, and B.L. Haller. Evaluation of the Binax NOW, BD Directogen, and BD Directogen EZ Assays for Detection of Respiratory Syncytial Virus. *J. Clin. Micro.* (2004) 42: 2996-2999.
14. Elbeik, T., P. Nassos, P. Kipnis, B. Haller, and VL Ng. Evaluation of the VACUTAINER PPT Plasma Preparation Tube for use with the Bayer VERSANT assay for quantification of human immunodeficiency virus type 1 RNA. *J. Clin. Micro.* (2005) 43: 3769-71.

PEER REVIEWED PUBLICATIONS, CONTINUED:

15. Smith, B.R., A. Wells, C.B. Alexander, E. Bovill, S. Campbell, A. Dasgupta, M. Fung, B. Haller, J.G. Howe, C. Parvin, E. Peerschke, H. Rinder, S. Spitalnik, R. Weiss, M. Wener. Curriculum Content and Evaluation of Resident competency in clinical Pathology (Laboratory Medicine): A Proposal. *Clin. Chem.* (2006) 52: 917-49.
16. Smith, B.R., A. Wells, C.B. Alexander, E. Bovill, S. Campbell, A. Dasgupta, M. Fung, B. Haller, J.G. Howe, C. Parvin, E. Peerschke, H. Rinder, S. Spitalnik, R. Weiss, M. Wener. Curriculum Content and Evaluation of Resident competency in clinical Pathology (Laboratory Medicine): A Proposal. *Am. J. Clin. Pathology* (2006) 125 Suppl: S3-37.
17. Smith, B.R., A. Wells, C.B. Alexander, E. Bovill, S. Campbell, A. Dasgupta, M. Fung, B. Haller, J.G. Howe, C. Parvin, E. Peerschke, H. Rinder, S. Spitalnik, R. Weiss, M. Wener. Curriculum Content and Evaluation of Resident competency in clinical Pathology (Laboratory Medicine): A Proposal. *Human Pathol* (2006) 37: 934-68.
18. Zetola, N.M., J.D. Klausner, B. Haller, P. Nassos, and M.H. Katz. Association between rates of HIV testing and elimination of written consents in San Francisco. *JAMA* (2007) 297(10): 1061-1062.
19. Graber, C.J., M.K. Wong, H.A. Carelton, F. Perdreau-Remington, B.L. Haller, and H.F. Chambers. Intermediate Vancomycin Susceptibility in a Community-associated MRSA Clone. *Emerging Inf. Diseases* (2007) 13(3): 491-493.
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