

2015 Ishmael Lectureship



M. KARI CONNOLLY, MD | PRESENTER



POSITION

Clinical Professor, Step 3
Department of Dermatology (primary)
School of Medicine

Clinical Professor, Step 3
Department of Medicine
Division of Rheumatology (secondary)

Director, Autoimmune Clinic
Co-Director, Immunodermatology Laboratory

EDUCATION

1975-80	Yale University, New Haven, CT	B.S. Biology
1980-84	Albany Medical College, Albany, NY M.D.	Cum Laude
1984-85	University of California, Los Angeles Intern	Medicine
1985-87	University of California, Los Angeles Resident	Medicine
1987-90	University of California, San Francisco Fellow	Medicine (Rheumatology)
1988-91	University of California, San Francisco Resident	Dermatology

LICENSES, CERTIFICATION

1985	Diplomat, National Board of Medical Examiners	#299229
1986	Medical Licensure, California	#G57864
1987	Diplomat, American Board of Internal Medicine	#115317
1990	Diplomat, Subspecialty of Rheumatology	#115317
1991	Diplomat, American Board of Dermatology	#011076
1999	Recertification, American Board of Dermatology	#011076
2009	Recertification, American Board of Dermatology	#011076

PRINCIPAL POSITIONS HELD

1991-93	University of California, San Francisco Clinical Instructor	Dermatology
1991-93	University of California, San Francisco Clinical Instructor	Medicine (WOS)
1993-00	University of California, San Francisco Assistant Professor	Dermatology
1993-00	University of California, San Francisco Assistant Professor	Medicine (WOS)
2000-06	University of California, San Francisco Associate Professor	Dermatology
2000-06	University of California, San Francisco Associate Professor	Medicine (WOS)
2006-present	University of California, San Francisco Professor	Dermatology
2006-present	University of California, San Francisco Professor	Medicine (WOS)

2015 Ishmael Lectureship



OTHER POSITIONS HELD CONCURRENTLY

1994-present University of California, San Francisco, Director, Autoimmune Clinic, Dermatology
1995-present University of California, San Francisco, Co-Director, Immunodermatology Laboratory

HONORS AND AWARDS

1982 Mosby Book Award for Medical Ethics, Albany Medical College
1984 AOA Honor Society, Albany Medical College
1984 Janet M. Glasgow Memorial Achievement Citation, Albany Medical College
1984 Dagget Trust Prize for Effective Performance, Albany Medical College
1984 Lamb Foundation Prize for Doctor-Patient Relations, Albany Medical College
1984 Frederick McCandless Prize in Psychiatry, Albany Medical College
1987 Soloman Scholarship Research Award, University of California, Los Angeles
1990 Outstanding Abstract, American Federation of Clinical Research
1991 Senior Rheumatology Scholar Award, American College of Rheumatology
1995 Teacher of the Year Award, UCSF Department of Dermatology
1996 Best Doctors in America: Pacific Region
1997 Thomas Fitzpatrick Award for research, Kao Foundation
1997-99 Career Development Award in Skin Research, Dermatology Foundation
1997-15 Best Doctors in America

KEYWORDS/AREAS OF INTEREST

Autoimmune skin diseases, Immunofluorescence testing, scleroderma, systemic sclerosis, morphea, tissue banking, skin fibrosis, DNA microarrays, growth factors, cytokines, peripheral neuropathies, biologics, clinical trials, and medical education.

PROFESSIONAL ACTIVITIES

SUMMARY OF CLINICAL ACTIVITIES:

I direct the autoimmune skin disease clinic at UCSF and manage complex autoimmune patients from all over Northern California and beyond. I train the residents and fellows about these rare diseases. In addition, I developed the UCSF Scleroderma Database and Tissue Bank. We have over 700 clinical entries in the database. From this large cohort, we did skin biopsies on a smaller, well-characterized subset for the tissue banking and research studies. Our approach has been to use DNA microarrays to look at gene expression profiles (refs 15, 32 and 36). We have been successful in identifying many genes that are altered in scleroderma patients. Our goal is to identify biomarkers that predict which scleroderma patients are at risk for pulmonary disease. In the past year, we have started a new multispecialty scleroderma clinic within rheumatology. Bringing together top rheumatologists, dermatologists and pulmonologists will provide the optimal care for complex group of patients. Our plans are to launch a new and improved scleroderma database as well as acquire samples for a variety of research studies.

I participate in clinical trials in scleroderma and other autoimmune diseases. We completed an NIH-sponsored, multi-center, randomized control trial of oral cyclophosphamide in scleroderma lung disease. This study is a

2015 Ishmael Lectureship



landmark study in the treatment of scleroderma lung disease and the results were published in the New England Journal of Medicine (N Engl J Med 2006;354(25): 2655-66; see publications). A second, follow up study NIH study to compare the effects of oral cyclophosphamide to mycophenolate mofetil for the treatment of scleroderma lung disease is underway. I am also interested in using biologic agents to treat refractory autoimmune diseases.

In addition the above activities, I am the co-director of the Immunodermatology/immunofluorescence Lab at UCSF. We process over 1,000 direct immunofluorescence (DIF) and indirect immunofluorescence (IIF) tests on skin biopsies and serum every year. This is a specialty laboratory test to assess the deposition of immunoglobulins in skin and mucosal tissue. It is a diagnostic test for autoimmune blistering diseases (such as pemphigus vulgaris and bullous pemphigoid), connective tissue diseases (such as systemic lupus erythematosus and dermatomyositis) and vasculitis (such as Henoch-Schonlein purpura). The test requires specialized handling and sectioning of frozen tissue. We are a CLIA-certified lab and perform this service in conjunction with dermatopathology. I oversee the laboratory processing of these specimens. I am responsible for reading and reporting on all the DIF and IIF specimens on a daily basis. I am responsible for all the phone calls and emails from referring physicians and institutions on a daily basis.

PROFESSIONAL ORGANIZATIONS

Memberships

1991-2014	American Academy of Dermatology
1992-2014	American College of Rheumatology
1994-2006	American Federation for Medical Research
1995-2014	Society for Investigative Dermatology
1995-2014	Women's Dermatologic Society
2000-2014	Scleroderma Clinical Trials Consortium
2000-2014	Dermatology Foundation
2002-2014	Medical Dermatologic Society
2007-2014	(North American) Rheumatologic Dermatology Society

Service to Professional Organizations

1994-2006	Scleroderma Research Foundation	Investigator
2004-2008	Pemphigus and Pemphigoid Society	Medical Advisory Board
2004-2010	Scleroderma Foundation, local chapter	Medical Advisory Board
2005-2008	American College of Rheumatology	Chair, skin study section
2007-present	Rheumatologic Dermatology Society	Secretary/Treasurer

SERVICE TO PROFESSIONAL PUBLICATIONS

	Ad hoc reviewer for:
1994, '95	Journal of Immunology (1/yr)
1994-'07	Journal of the American Academy of Dermatology (3/5 years)
1995	Prostaglandins (1/yr)
1998-'03	American Journal of Medicine (2/5 years)
1998	Guest Editor, Scleroderma and Cutaneous Sclerosis
2001, '08, '09	Pediatric Dermatology (1/yr)

2015 Ishmael Lectureship



2001	Proceedings of the National Academy of Science (1/yr)
2005	American College of Rheumatology (2/5 years)
1997-'14	Archives of Dermatology (1-3/year)
1997-'14	American Journal of Dermatopathology (2/5 years)
2009-'14	Journal of Investigative Dermatology (1/year)
2009-'14	Journal of Cutaneous Pathology (1/year)

INVITED PRESENTATIONS

INTERNATIONAL

Dermatrends International Symposia, 2006, Cairo, Egypt ("Scleroderma-What's New")
World Congress of Dermatology, 2011, Seoul, Korea (Chair and speaker, Sclerosing skin disorders symposium)
3rd International Conference on Cutaneous Lupus Erythematosus, 2013, Edinburgh, Scotland ("Classification of CLE")
World Congress of Dermatology, 2015, Vancouver Canada, (co-chair and speaker)

NATIONAL

American College of Rheumatology, 1990 (lecture)
American Federation of Clinical Research, 1992 (lecture)
American Association of Immunologists, 1993 (lecture)
American Academy of Dermatology, 1994 (lecture)
American Osteopathic College of Dermatology, 1994 (lecture)
American Academy of Dermatology, 1995 (lecture)
Scleroderma Research Foundation, 1996 (research talk)
Society of Investigative Dermatology, 1997 (lecture)
Scleroderma Research Foundation, 1998 (research talk)
Scleroderma Research Foundation, 1999 (plenary talk)
Society of Investigative Dermatology, 2000 (lecture)
American Academy of Dermatology, 2000 (lecture)
American Academy of Dermatology, 2001 (lecture)
American College of Rheumatology, 2001 (lecture)
American Academy of Dermatology, 2002 (lecture)
Young Leaders in Dermatology Symposium, 2002 (lecture)
American College of Rheumatology, 2002 (lecture)
Scleroderma Research Foundation, 2003 (research talk)
American College of Rheumatology, 2003 (lecture)
Scleroderma Research Foundation, 2004 (research talk)
American College of Rheumatology, 2004 (lecture)
Lupus Foundation of America, Phoenix, AZ, 2004 (lecture)
Lupus Foundation of America, Houston, TX, 2004 (lecture)
Scleroderma Research Foundation, 2005 (research talk)
American College of Rheumatology, 2005 (lecture)
Lupus Foundation of America, Denver, CO, 2005 (lecture)
Scleroderma Research Foundation, 2006 (research talk)
American Academy of Dermatology, 2006 (2 lectures)
Lupus Foundation of America, Los Angeles, CA 2006 (2 lectures)
Lowe's conference, University of Alabama, Birmingham, AL 2006 (2 lectures)
American College of Rheumatology, Washington, DC, 2006 (lecture)
American College of Rheumatology, Boston, MA, 2007 (lecture)

2015

Ishmael Lectureship



American College of Rheumatology, San Francisco, CA 2008 (study section chair, lecture)
American Academy of Dermatology, San Francisco, CA 2009 (lecture)
American Academy of Dermatology, Miami, FL 2010 (lecture)
Medical Dermatology Society, New Orleans, LA 2011 (plenary lecture)
American Academy of Dermatology, New Orleans, LA 2011 (session chair, lecture)
American Academy of Dermatology, San Diego, CA 2012 (lecture)
Oklahoma State Dermatological Society, Oklahoma City, OK 2012 (lecture)
American Academy of Dermatology, Miami, FL 2013 (lecture)
American College of Rheumatology, San Diego, CA 2013 (lecture)
American College of Dermatology, Denver, CO 2014 (lecture)
American Academy of Dermatology, San Francisco, CA 2015 (lecture)

REGIONAL AND OTHER INVITED PRESENTATIONS

1992 Medical Grand Rounds, California Pacific Medical Center
1992 Medical Grand Rounds, San Jose Medical Center
1993 Osler Institute, Dermatology Review
1993 UCSF Rheumatology Grand Rounds
1993 Medical Grand Rounds, Kaiser Santa Rosa
1994 Northern California Rheumatism Association
1994 UCSF Rheumatology Grand Rounds
1994 UCSF Medical Housestaff
1994 UCSF Medical Housestaff Core Curriculum
1994 UCSF Medical Grand Rounds
1995 UCSF Rheumatology Grand Rounds
1996 UCSF Medical Housestaff Core Curriculum
1996 Dominican Hospital, Santa Cruz
1996 Dermatology Grand Rounds, Kaiser Oakland
1996 UCSF Rheumatology Conference
1997 Medical Grand Rounds, Summit Hospital Oakland
1997 Fibrogen, South San Francisco
1997 UCSF Oral Medicine Seminar
1998 UCSF Dermatology Research Lecture
1998 UCSF Dermatology Grand Rounds
1998 Roche Bioscience Seminar
1998 UCSF Rheumatology conference
1998 UCLA Dermatology Grand Rounds, Los Angeles
1998 Pacific Dermatology Association. San Francisco
1999 UCSF Symposium on Degenerative Diseases
1999 UCSF Medical Housestaff Bench to Bedside
1999 Medical Grand Rounds, Kaiser San Francisco
1999 Pacific Dermatology Association, Monterey
1999 Ringrose Conference, Oakland Kaiser
1999 Cutaneous Oncology Conference, UCSF Cancer Center
2000 UCSF Dermatology Grand Rounds
2000 Grand rounds, Queen of the Valley Hospital, Napa
2001 Ringrose Conference, Oakland Kaiser
2001 Medical Grand Rounds, California Pacific Medical Center
2001 UCSF Medical Grand Rounds
2002 American College of Rheumatology, Santa Barbara

2015 Ishmael Lectureship



- 2002 Stanford Dermatology Resident lecture
- 2002 San Francisco, Dermatological Society, Stanford
- 2002 UCSF Oral Medicine Seminar
- 2003 UCSF Dermatology Grand Rounds
- 2003 Actelion, South San Francisco
- 2003 UCSF MSTP Grand Rounds
- 2003 Kosan Bioscience, Hayward, CA
- 2003 Stanford Dermatology Resident lecture
- 2004 UCSF Oral Medicine seminar
- 2004 Amgen, San Francisco
- 2004 Cutaneous Oncology Conference, UCSF Cancer Center
- 2004 Research Update, VAMC, San Francisco
- 2005 UCSF Oral Medicine seminar
- 2005 UCSF Rheumatology Grand Rounds
- 2005 UCSF Medical Grand Rounds
- 2006 UCSF Dermatology Grand Rounds
- 2006 Actelion, South San Francisco
- 2007 Arthritis Foundation, Seattle, WA
- 2007 Actelion, South San Francisco
- 2007 UCSF Dermatology Grand Rounds
- 2007 Women and Pediatric Dermatology Society, San Francisco
- 2007 VAH Medical Grand Rounds, San Francisco
- 2008 UCSF Oral Medicine Department lectures
- 2008 UCI Dermatology Grand Rounds/Dowling speaker, Irving, CA
- 2008 California Rheumatology Alliance speaker, San Francisco, CA
- 2008 Women's & Pediatric Dermatology seminar, San Francisco, CA
- 2008 Santa Rosa Memorial Hospital Grand Rounds, Santa Rosa, CA
- 2011 Novato Community Hospital, Grand Rounds, Novato, CA
- 2011 Perspectives in Rheumatic Disease Conference, San Francisco, CA
- 2013 UCSF Dermatology, Grand Rounds, San Francisco, CA
- 2013 Pediatric rheumatology conference, San Francisco, CA
- 2013 Medical Grand Rounds, Highland Hospital, Oakland, CA
- 2015 UCSF Oral Medicine lectures

CME COURSES ATTENDED

- 2006 American Academy of Dermatology, San Francisco, CA
- 2006 Pain management and end-of-life care, UCSF, San Francisco, CA
- 2011 American Academy of Dermatology, New Orleans, LA
- 2011 UCSF Rheumatology review course, San Francisco, CA
- 2012 UCSF Rheumatology Board review course, San Francisco, CA
- 2013 UCSF Rheumatology Board review course, San Francisco, CA

GOVERNMENT and OTHER PROFESSIONAL SERVICE

- 2004 Pemphigus and Pemphigoid Society medical advisory board
- 2009 The Myositis Foundation grant review
- 2010 Child and Family Research Institute of Canada grant review

UNIVERSITY AND PUBLIC SERVICE

2015 Ishmael Lectureship



UNIVERSITY SERVICE

UCSF CAMPUS-WIDE

1994	Promotions Committee, Rheumatology
1997	Fulbright Campus Review Committee
1999	Chairperson, Scleroderma Tissue Database Workshop
2000-present	CTSI Advisory Committee

DEPARTMENTAL SERVICE:

1994-99	Committee on Research in Dermatology
1994-now	Director, Autoimmune Clinic
1994-06	Director, UCSF Scleroderma Research Center
1994-now	Co-director, UCSF Immunofluorescence Lab
1998	Search Committee for Chief of Dermatology, VAMC
2001	Faculty Search Committee, Dermatology, VAMC
2007-now	Basic Science Curriculum Development

PUBLIC SERVICE

1993	Psoriasis Day Care Center	lecture/discussion
1994	Marilu Henner Show-CBS	talk show guest
1995	Northern Calif. Lupus Support group	lecture/discussion
1995	San Jose Scleroderma Support group	lecture/discussion
1995	United Scleroderma Federation	lecture/discussion
1996	Legal Expert; Autoimmunity	
1997	Dermatitis Herpetiformis, Celiac group	lecture/discussion
1997	Nat'l Pemphigus Foundation speaker	lecture/discussion
1997	Psoriatic arthritis support group	lecture/discussion
1998	Scleroderma AOL guest speaker	
1998	Scleroderma support group, Fremont	lecture/discussion
1999	Psoriatic Arthritis, Nat'l Pso Foun.	lecture/discussion
2000	UCSF Brown Bag Lecture	lecture/discussion
2000	National Pemphigus Foundation	lecture/discussion
2004	International Pemphigus Foundation	lecture/discussion
2004	Scleroderma Foundation, regional	lecture/discussion
2004	Scleroderma Foundation, national	lecture/discussion
2004	Lupus now: approaches by the experts	lectures(2)/discussion
2005	Pemphigus and Pemphigoid Society	lecture/discussion
2005	Scleroderma Foundation	lecture/discussion
2005	Lupus now: approaches by the experts	lecture/discussion
2006	Lupus now: approaches by the experts	lecture/discussion
2007	Pulmonary Hypertension Society	lecture/discussion
2010	Scleroderma education day	lecture/discussion
2010	Lupus Foundation of America, local lecture	lecture/discussion
2011	Scleroderma Foundation, national conference	lecture/discussion
2011	Lupus Foundation of America, national meeting	lecture/discussion
2013	Scleroderma Foundation of San Diego	lecture/discussion

2015 Ishmael Lectureship



2013	International Pemphigus and Pemphigoid Foundn	lecture/panel
2013	Scleroderma Foundation, Palo Alto, support group	lecture/discussion
2014	Scleroderma Foundation, San Francisco,	lecture/discussion

TEACHING AND MENTORING

FORMAL SCHEDULED CLASSES FOR UCSF STUDENTS:

Qtr	Academic Yr	Course No. & Title	Teaching Contribution	Class Size
W	1997-98	Medicine 160.04 MSTP Preceptorship	48 hours of preceptoring in the autoimmune clinic	1
W	1998-99	Dermatology 140.01	6 one-hour lectures	6
S	1999-00	Dermatology 140.01	6 one-hour lectures	6
S	2000-01	Dermatology 140.01	6 one-hour lectures	4
W	2001-02	Medicine 160.04 MSTP preceptorship	48 hours of preceptoring in the autoimmune clinic	1
S	2001-02	Dermatology 140.01	6 one-hour lectures	6
S	2002-03	Dermatology 140.01	6 one-hour lecturers	6
S	2003-04	Dermatology 140.01	6 one-hour lectures	6
S	2004-05	Dermatology 140.01	6 one-hour lectures	6
S	2005-06	Dermatology 140.01	6 one-hour lectures	6
W	2005-06	Medical students Prologue/IDS101/131	2 hr small group leader	14
S	2006-07	Dermatology 140.01	6 one-hour lectures	6
S	2008-09	Dermatology 140.01	6 one-hour lectures	6
S	2009-10	Dermatology 140.01	1 x 3 hour session	6
S	2010-11	Dermatology 140.01	1 x 3 hour session	5
S	2011-12	Dermatology 140.01	1 x 3 hour session	6

POSTGRADUATE AND OTHER COURSES

1992	UCSF Rheumatology Board Review Course
1993	UCSF Advances in Internal Medicine Course
1994	UCSF Rheumatology Board Review Course
1996	UCSF Rheumatology Board Review Course
1997	UCSF Advanced Dermatology Update Course
1998	UCSF Clinical Allergy and Immunology Course
1998	UCSF Advanced Dermatology Update Course
1998	UCSF Rheumatology Board Review Course
1999	UCSF Rheumatology Board Review Course
2000	UCSF Rheumatology Board Review Course
2000	UCSF Advanced Dermatology Update Course
2001	UCSF Rheumatology Board Review Course
2001	UCSF Advances in Internal Medicine
2002	UCSF Rheumatology Board Review Course
2003	UCSF Rheumatology Board Review Course
2004	UCSF Rheumatology Board Review Course

2015 Ishmael Lectureship



- 2005 UCSF Rheumatology Board Review Course
- 2006 UCSF Rheumatology Board Review Course
- 2007 UCSF Advances in Internal Medicine
- 2007 UCSF Rheumatology Board Review Course
- 2008 UCSF Rheumatology Board Review Course
- 2009 UCSF Rheumatology Board Review Course
- 2010 UCSF Rheumatology Board Review Course
- 2011 UCSF Rheumatology Board Review Course
- 2012 UCSF Rheumatology Board Review Course
- 2013 UCSF Rheumatology Board Review Course
- 2014 UCSF Rheumatology Board Review Course

POSTDOCTORAL FELLOWS AND RESIDENTS DIRECTLY SUPERVISED OR MENTORED

Dates	Name	Fellow	Faculty role	Current position
1995-1997	Bin Liu Ph.D.	Post-Doc researcher	Research supervision	Assoc. Prof. UCSF
2000-2002	Michael Whitfield Ph.D.	Post-Doc researcher	Research collaboration	Assoc. Prof. Dartmouth
2005	Shirley Ping, M.D.	Rheumatology fellow	Clinic supervision	Group practice
2005-2006	Kanada Shinkai, M.D., Ph.D.	Dermatology resident	Career track mentoring	Asst. Prof. UCSF
2007-2008	Elizabeth Seiverling, M.D.	Dermatology resident	Career track mentoring	Medical group practice
2009	Gretchen Kreizenbeck, M.D.	Dermatology Resident from Yale	WDS Mentor award	Private practice New York
2011-2012	Anna Haemel, M.D.	Dermatology Medical Autoimmunity	Clinic supervision Career development	UCSF fellow UCSF faculty

INFORMAL/DEPARTMENTAL/TEACHING:

1999-00	Immunology course	4 hour lectures	10-15 residents
1999-00	Autoimmune diseases	4 hour lectures	10-15 residents
1999-00	Attending rounds, Dermatology Service (June)		
1990-00	Attending rounds, Dermatology Service (May)		
2000-01	Immunology course	4 hour lectures	10-15 residents
2000-01	Autoimmune diseases	4 hour lectures	10-15 residents
2000-01	Attending rounds, Dermatology Service (March, Dec)		
2000-01	Attending rounds, Dermatology Service (May)		
2000-02	Immunology course	4 hour lectures	10-15 residents
2000-02	Autoimmune diseases	4 hour lectures	10-15 residents
2000-02	Attending rounds, Dermatology Service (Oct)		
2000-02	Attending rounds, Dermatology Service (May)		

2015 Ishmael Lectureship



2000-03	Immunology course	4 hour lectures	10-15 residents
2000-03	Autoimmune diseases	4 hour lectures	10-15 residents
2000-03	Attending rounds, Dermatology Service (June)		
2000-03	Attending rounds, Dermatology Service (May)		
2000-04	Immunology course	4 hour lectures	10-15 residents
2000-04	Autoimmune diseases	4 hour lectures	10-15 residents
2000-04	Attending rounds, Dermatology Service (Oct)		
2000-04	Attending rounds, Dermatology Service (May)		
2000-05	Immunology course	4 hour lectures	10-15 residents
2000-05	Autoimmune diseases	4 hour lectures	10-15 residents
2000-05	Attending rounds, Dermatology Service (Feb, May)		
2000-05	Attending rounds, Dermatology Service (May)		
2000-08	Immunology course	4 hour lectures	10-15 residents
2000-08	Autoimmune diseases	4 hour lectures	10-15 residents
2000-09	Autoimmune diseases	4 hour lectures	10-15 residents
2000-09	Basic science: ECM	1 hour lecture	10-15 residents
2000-14	Autoimmune diseases	3-4 hour lectures	10-15 residents

2006-13 Immunofluorescence microscopy sign out. Every dermatology resident will spend an afternoon with me at the scope (monthly) while they are on their dermpath rotation. In addition, dermpath fellows spend several afternoons over the course of their 2-year fellowship (monthly for several months).

1991-2013 Attending rounds, Rheumatology inpatient service (1 month per year)
 1991-2013 Attending rounds, Dermatology inpatient service (see below)

FACULTY MENTORING

Dates	Name	Position while mentored	Mentoring role	Current position
2003-04	Amy Gilliam, M.D.	Fellow	Reviewed grant application	Clinical practice PAMF
2003-05	Julie Letsinger, M.D.	Resident to Clinical Instructor, UCSF Dermatology	Career Advisor	Clinical practice PAMF
2003-05	Michelle Freemer, M.D.	Clinical Instructor, Medicine (pulmonary)	Collaborator	Assoc. Professor, UCSF, Medicine
2003-05	David Fiorentino, M.D., Ph.D.	Clinical Instructor	Career advisor Grant reviewer	Assoc. Professor, Stanford, Dept of Dermatology

TEACHING AIDS

Scleroderma syllabus for rheumatology fellows; autoimmune website for patients and students (www.dermatology.ucsf.edu/autoimmune/ and <http://genome-www.stanford.edu/scleroderma>).

OTHER

2015 Ishmael Lectureship



2003-05 Faculty preceptor for the Advanced Program in Oral Medicine, UCSF
2004-05 Faculty preceptor for the Advanced Program in Oral Medicine, UCSF
2007-08 Faculty preceptor for the Advanced Program in Oral Medicine, UCSF
2008-09 Faculty preceptor for the Advanced Program in Oral Medicine, UCSF

TEACHING AWARDS AND NOMINATIONS

1995 UCSF Dermatology Teacher of the Year

SUMMARY OF TEACHING HOURS

2003-04: Formal class or course teaching hours: 22 hours
Informal teaching hours: 425 hours
Mentoring hours: 10 hours
Total hours of teaching (including preparation) = 460 hours

2004-05: Formal class or course teaching hours: 25 hours
Informal teaching hours: 425 hours
Mentoring hours: 25 hours
Total hours of teaching (including preparation) = 500 hours

2005-06: Formal class or course teaching hours: 26 hours
Informal teaching hours: 425 hours
Mentoring hours: 25 hours
Total hours of teaching (including preparation): 476 hours

2006-07: Formal class or course teaching hours: 28 hours
Informal teaching hours: 425 hours
Mentoring hours: 25 hours
Total hours of teaching (including preparation): 478 hours

2007-08: Formal class or course teaching hours: 30 hours
Informal teaching hours: 450 hours
Mentoring hours: 25 hours
Total hours of teaching (including preparation): 505 hours

2008-09: Formal class or course teaching hours: 28 hours
Informal teaching hours: 450 hours
Mentoring hours: 30 hours
Total hours of teaching (including preparation): 508 hours

2009-10: Formal class or course teaching hours: 25 hours
Informal teaching hours: 500 hours
Mentoring hours: 25 hours
Total hours teaching (including preparation): 525 hours

2010-11: Formal teaching hours: 20 hours
Informal teaching hours: 500 hours
Mentoring hours: 25 hours
Total hours teaching (including preparation): 520 hours

2015 Ishmael Lectureship



2011-12:	Formal teaching hours: 20 hours Informal teaching hours: 500 hours Mentoring hours: 20 hours Total teaching hours (including preparation): 520 hours
2012-13:	Formal teaching hours: 20 hours Informal teacher hours: 500 hours Mentoring hours: 25 hours Total hours teaching (including preparation): 520 hours
2013-14:	Formal teaching hours: 20 hours Informal teaching hours: 500 hours Mentoring hours: 25 hours Total teaching hours (including preparation): 520 hours
2014-15:	Anticipated hours of teaching = 500 hours+ (same as above)

TEACHING NARRATIVE

I teach dermatology residents and medical students in the autoimmune clinic at Mt. Zion one half day per week 12 months a year (~250 hours). I have started a new rheum-derm clinic at the Parnassus campus in the rheumatology clinic that meets one half day per week to see complicated autoimmune patients with a focus on scleroderma and oversee fellows (~250 hours). I also teach dermatology residents and dermatopathology fellows immunofluorescence microscopy at the microscope every week (~100 hours). I anticipate similar teaching hours for the foreseeable future.

I helped develop a Basic Science Curriculum for the dermatology residents (with oversight and input from a number of individuals). This involves approximately 20 lectures over an 18-month period. As a template, we used an up-to-date textbook that was popular and accessible to the residents, and coupled that with 19 basic science faculty members in dermatology across all three institutions. We have very junior first year faculty as well as very senior faculty giving lectures. This will involve faculty that some of the residents never get exposed to. This program will complement the existing basic science laboratory research updates and will give the residents regular basic science exposure.

RESEARCH AND CREATIVE ACTIVITIES

INTRAMURAL FUNDING

As Co-Director of the UCSF Immunofluorescence Laboratory, my laboratory processes over 1,500 clinical skin specimens for direct and indirect immunofluorescence every year. This number continues to grow as we provide state-of-the art testing with a rapid turnaround.

EXTRAMURAL FUNDING - RESEARCH SUPPORT

CURRENT

1. NIH/NHLBI (co-investigator)

07/01/08-06/30/12

2015 Ishmael Lectureship



Scleroderma Lung Study II

\$81,378 direct/yr 1
\$325,512 direct/yrs 1-4

PENDING

2. NIH (co-investigator)
Exome-Plus sequence analysis for scleroderma pathogenesis

07/01/12-6/30/17
\$245,903 direct/yr 1
\$1,229,515 direct/yrs 1-5

PAST

1. Arthritis Foundation (PI)
Mechanisms of disease in a mouse model of lupus erythematosus
07/01/05-6/30/91
\$90,000 /yrs 1-3
2. PPG U01 AI34570 (co-investigator)
NIH/NIAID
Neuromediation of immunity and hypersensitivity
08/01/94-06/30/97
\$228,000 direct/yrs 1-3
3. AR20684 (PI)
NIH/NIAMS
Fibrotic mechanisms in scleroderma
01/01/97-12/31/98
\$79,834 direct/yrs 1-2
4. Kao Foundation Award (PI)
Fibrosin in scleroderma
06/01/97-5/31/98
\$50,000/yr 1
5. Career Development Award (PI)
Dermatology Foundation
Cutaneous fibrosis
06/01/97-5/31/00
\$120,000/yrs 1-3
6. Joseph K. Wood Research and Education Fund (PI)
Dermatomyositis
05/1/99-04/30/01
\$47,000/yrs 1-2
7. San Francisco Foundation (PI)
excellence in scleroderma
9/1/00-12/31/02 Center for
\$50,000/ yrs 1-2
8. UO1 HL60587 (co-investigator)
NIH/NHLBI
Scleroderma Lung Study
10/01/01-6/30/04
\$69,771 direct/yr 1
\$212,567 direct/yrs 1-3
9. Molecular Markers in Scleroderma Skin (PI)
The UCSF Scleroderma Database and Tissue Bank
Scleroderma Research Foundation
5/1/94-6/22/06
\$100,000/year
\$1,200,000/yrs1-12

PEER REVIEWED PUBLICATIONS

1. Connolly, K, Roubinian, JR, Wofsy, D. Development of murine lupus in CD4-depleted ZB/NZW mice: Sustained inhibition of residual CD4+T cells is required to suppress autoimmunity. J Immunol. 149:3083-3088, 1992.
2. Connolly, MK, Kitchens, EA, Chan, B, Jardieu, P, Wofsy, D. Treatment of murine lupus with monoclonal antibodies to lymphocyte function-associated antigen-1: dose-dependent inhibition of autoantibody

- production and blockade of the immune response to therapy. *Clin Immunol Immunopathol.* 72:198-203, 1994.
3. Chu, P, Connolly, MK, LeBoit, PE. The histopathologic spectrum of palisaded neutrophilic and granulomatous dermatitis in patients with collagen vascular disease. *Arch Dermatol.* 130:1278-1283, 1994.
 4. Stone, JH, Sack, KE, McCalmont, TH, Connolly, MK. Gottron's papules? Acanthosis nigricans. *Arthritis Rheum.* 38:862-865, 1995.
 5. Rowbotham, MC, Yosipovitch, G, Connolly, MK, Finlay, D, Forde, G, Fields HL. Cutaneous innervation density in the allodynic form of postherpetic neuralgia. *Neurobiol Dis.* 3:205-214, 1996.
 6. van Oers, N, Lowen, B, Finlay, D, Connolly, K, Weiss, A. Alpha beta T cell development is abolished in mice lacking both Lck and Fyn protein tyrosine kinases. *Immunity.* 5:429-436. 1996.
 7. Chestnut, MS, Finck, BK, Killeen, N, Connolly, MK, Goodman, H, Wofsy, D. Enhanced lymphoproliferation and diminished autoimmunity in CD4-deficient MRL/lpr mice. *Clin Immunol Immunopathol.* 87:23-32, 1998.
 8. Connolly, MK, McCalmont, TH. Fetal DNA and cells in women with systemic sclerosis (letter). *N Engl J Med.* 339:771-772, 1998.
 9. Kadlecsek, TA, van Oers, NS, Lefrancios, L, Olson, S, Finlay, D, Chu, DH, Connolly, K, Killeen, N, Weiss A. Differential requirements for ZAP-70 in TCR signaling and T cell development. *J Immunol.* 161:4688-4694, 1998.
 10. Toro, JR, Finlay, D, Dou, X, Zheng, SC, LeBoit, PE, Connolly, MK. Detection of type 1 cytokines in discoid lupus erythematosus. *Arch Dermatol.* 136:1497-1501, 2000.
 11. Fye, KH, Crowley, E, Berger, TG, LeBoit, PE, Connolly, MK. Celecoxib-induced Sweet's syndrome. *J Am Acad Dermatol.* 45:300-302, 2001.
 12. O'Hare, A, Olson, JL, Connolly, MK, Ward, JW, Stein, P, Wisnieski, JJ, Chertow, GM. Renal insufficiency with monoclonal gammopathy and urticarial vasculitis. *Am J Kidney Dis.* 39:203-207, 2002.
 13. Leask A, Abraham, DJ., Finlay, DR, Holmes, A, Pennington, D, Shiwen, X, Chen, Y, Venstrom, K, Dou, X, Ponticos, M, Jackman, JK, Findell, PR, Connolly, MK. Dysregulation of transforming growth factor beta signaling in scleroderma: overexpression of endoglin in cutaneous scleroderma fibroblasts. *Arthritis Rheum.* 46:1857-1865, 2002.
 14. Poncelet, AN, Connolly, MK. Peripheral neuropathy in scleroderma. *Muscle Nerve.* 28:330-335, 2003.
 15. Whitfield, ML, Finlay DR, Murray, JI, Troyanskaya, OG, Chi JT, Pergamenschikov, A, McCalmont, TH, Brown, PO, Botstein, D, Connolly, MK. Systemic and cell type-specific gene expression patterns in scleroderma skin. *Proc Natl Acad Sci USA.* 100:12319-12324, 2003.
 16. Neudecker BA, Stern R, Connolly, MK. Aberrant serum hyaluronan and hyaluronidase levels in scleroderma. *Br J Dermatol.* 150:469-476, 2004.

17. Albrecht J, Berlin JA, Braverman IM, Callen JP, Connolly, MK, Costner MI, Dutz J, Fivenson D, Franks, AG, Jorizzo JL, Lee, LA, McCauliffe DP, Sontheimer RD, Verth VP. Dermatology position paper on the revision of the 1982 ACR criteria for systemic lupus erythematosus. *Lupus*. 13:839-849, 2004.
18. Khanna, D., Clements, PJ, Furst, DE, Chon, Y, Elashoff, R, Roth, MD, Sterz, M, Chung, J, FitzGerald, JD, Seibold JR, Varga J, Theodore A, Wigley FM, Silver RM, Steen VD, Mayes MD, Connolly, MK, Fessler BJ, Rothfield NF, Mubarak K, Molitor J, Tashkin, DP; Scleroderma Lung Study Group. Correlation of the degree of dyspnea score with health-related quality of life, functional abilities and diffusing capacity for carbon monoxide in patients with systemic sclerosis and active alveolitis: results from the Scleroderma Lung Study. *Arthritis Rheum*. 52:592-600, 2005.
19. Shinkai, K, Kilcline C, Connolly, MK, Frieden, IJ. The pyrin family of fever genes: unmasking genetic determinants of autoinflammatory disease. *Arch Dermatol*. 141:242-247, 2005.
20. Neuhaus IM, Connolly, MK. An unusual presentation of amyopathic dermatomyositis associated with interstitial lung disease. *Arch Dermatol*. 142:113-4, 2006.
21. Albrecht, PJ, Hines, S, Pud, D, Eisenberg, E, Finlay, DR, Connolly, MK, Pare, M, Davar, G, Rice, FL. Pathologic alterations of cutaneous innervation and vasculature in affected limbs from patients with complex regional pain syndrome. *Pain*. 120:244-66, 2006.
22. Yu, SS, Connolly, MK, Berger, TG, McCalmont, TH. Dermatitis herpetiformis associated with administration of a gonadotropin-releasing hormone analog. *J Am Acad Dermatol*. 54:S58-9, 2006.
23. Tashkin, DP, Elashoff, R, Clements, PJ, Goldin, J, Roth, MD, Furst, DE, Arriola, E, Silver, R, Strange, C, Bolster, M, Seibold, JR, Riley, DJ, Hsu, VM, Varga, J, Schraufnagel, D, Theodore, A, Simms, R, Wise, R, Wigley, F, White, B, Steen, V, Read, C, Mayes, M, Parsley, E, Mubarak, K, Connolly, MK, Golden, J, Olman, M, Fessler, B, Rothfield, N, Metersky, M, for the Scleroderma Lung Study Group. Cyclophosphamide versus Placebo in Scleroderma Lung Disease. *N Engl J Med*. 354:2655-66, 2006.
24. Khanna D, Yan X, Tashkin DP, Furst DE, Elashoff R, Roth MD, Silver R, Strange C, Bolster MB, Seibold JR, Riley DJ, Hsu VM, Varga J, Schraufnagel D, Theodore A, Simms R, Wise R, Wigley F, White B, Steen V, Read C, Mayes M, Parsley E, Mubarak K, Connolly MK, Golden J, Olman M, Fessler B, Rothfield N, Metersky M, Clements PJ; Scleroderma Study Group. Impact of oral cyclophosphamide on health-related quality of life in patients with active scleroderma lung disease: results from the scleroderma lung study. *Arthritis Rheum*. 56:1676-84, 2007.
25. Tashkin DP, Elashoff R, Clements PJ, Roth MD, Furst DE, Silver RM, Goldin J, Arriola E, Strange C, Bolster MB, Seibold JR, Riley DJ, Hsu VM, Varga J, Schraufnagel D, Theodore A, Simms R, Wise R, Wigley F, Steen V, Read C, Mayes M, Parsley E, Mubarak K, Connolly MK, Golden J, Olman M, Fessler B, Rothfield N, Metersky M, Khanna D, Li N, Li G; Scleroderma Lung Study Research Group. Effects of 1-year treatment with cyclophosphamide on outcomes at 2 years in scleroderma lung disease. *Am J Respir Crit Care Med*. 176:1026-34, 2007.
26. Clements PJ, Roth MD, Elashoff R, Tashkin DP, Goldin J, Silver RM, Sterz M, Seibold JR, Schraufnagel D, Simms RW, Bolster M, Wise RA, Steen V, Mayes MD, Connolly K, Metersky M, Furst DE; Scleroderma Lung Study Group. Scleroderma lung study (SLS): differences in the presentation and course of patients with limited versus diffuse systemic sclerosis. *Ann Rheum Dis*. 2007;66:1641-7.

27. Fye KH, Siegel DH, Connolly MK. Diagnosis of Muckle-Wells syndrome – 33 years later. *J Rheumatol.* 34:2505-6, 2007.
28. Zamora AC, Wolters PJ, Collard HR, Connolly MK, Elicker BM, Webb WR, King TE Jr, Golden JA. Use of mycophenolate mofetil to treat scleroderma-associated interstitial lung disease. *Resp Med.* 102:150-5, 2008.
29. Fleming JN, Nash RA, McLeod DO, Fiorentino DF, Shulman HM, Connolly MK, Molitor JA, Henstorf G, Lafyatis R, Pritchard DK, Adams LD, Furst DE, Schwartz SM. Capillary regeneration in scleroderma: stem cell therapy reverses phenotype? *PLoS ONE.* 16:e1452, 2008.
30. Klein RQ, Bangert CA, Costner M, Connolly MK, Tanikawa A, Okawa J, Rose M, Fakhazadeh SS, Fiorentino D, Lee LA, Sontheimer RD, Taylor L, Troxel AB, Werth VP. Comparison of the reliability and validity of outcome instruments for cutaneous dermatomyositis. *Br J Dermatol.* 159:887-94, 2008.
31. Goldin JG, Lynch DA, Strollo DC, Suh RD, Schraufnagel DE, Clements PJ, Elashoff RM, Furst DE, Vasunilashorn S, McNitt-Gray MF, Roth MD, Tashkin DP; Scleroderma Lung Study group. High-resolution CT scan findings in patients with symptomatic scleroderma-related interstitial lung disease. *Chest.* 134:358-67, 2008.
32. Milano A, Pendergrass S, Sargent JL, George L, McCalmont T, Connolly MK, Whitfield ML. Molecular subsets in the gene expression signatures of scleroderma skin. *PLoS ONE* 16:2696, 2008.
33. Liu T, McCalmont TH, Frieden IJ, Williams MD, Connolly MK, Gilliam AE. The stiff skin syndrome: case series, differential diagnosis of the stiff skin phenotype and review of the literature. *Arch Dermatol.* 144:1351-9, 2008.
34. Kaiser R, Linker C, Connolly K, Maldonado J, Fye KH. Stem cell transplant for myelodysplastic syndrome-associated, treatment-refractory, histiocytoid Sweet's syndrome. *Arthritis Rheum.* 59:1832-4, 2008.
35. Chung L, Fiorentino DF, Benbarak MJ, Adler AS, Mariano MM, Paniagua RT, Milano A, Connolly MK, Ratiner BD, Wiskocil RL, Whitfield ML, Chang HY, Robinson WH. Molecular framework for response to imatinib mesylate in systemic sclerosis. *Arthritis Rheum.* 60:581-91, 2009.
36. Sargent JL, Milano A, Bhattacharyya S, Varga J, Connolly MK, Chang HY, Whitfield ML. A TGFbeta-responsive gene signature is associated with a subset of diffuse scleroderma with increased disease severity. *J Invest Dermatol.* 130:694-705, 2010.
37. Roth MD, Tseng CH, Clements PJ, Furst DE, Tashkin DP, Goldin JG, Khanna D, Kleerup EC, Li N, Elashoff D, Elashoff RM; Scleroderma Lung Study Research Group. Predicting treatment outcomes and responder subsets in scleroderma-related interstitial lung disease. *Arthritis Rheum.* 63:2797-808, 2011.
38. Walker KM, Pope J.; Scleroderma Clinical Trials Consortium; Canadian Scleroderma Research Group. Expert agreement on EULAR/EUSTAR recommendations for the management of systemic sclerosis. *J Rheumatol.* 38:1326-8, 2011.
39. Goreshi R, Okawa J, Rose M, Feng R, Lee LA, Hansen CB, Bangert CA, Connolly MK, Davis MD, Callen JP, Fett NM, Fakhazadeh SS, Clarke JT, Werth VP. Evaluation of reliability, validation and responsiveness of the CDASI and the CAT-BM. *J Invest Dermatol.* 132:1117-24, 2012.

40. Sottile PD, Iturbe D, Katsumoto TR, Connolly MK, Collard HR, Leard, LA, Hays S, Golden JA, Hoopes C, Kukreja J, Singer JP. Outcomes in systemic sclerosis-related lung disease following lung transplantation. *Transplantation*. 95:975-80, 2013.
41. Sun NZ, Brezinski EA, Berliner J, Haemel A, Connolly MK, Gensler L, McCalmont TH, Shinkai K. Atypical cutaneous findings and association with malignancy in Adult Onset Still's Disease: a review of the literature. *J Am Acad Dermatol*. (Submitted) 2015.
42. Strickland N, Strickland S, Fett N, Connolly MK, Hansen C, Jacobe, H. Current practices in the evaluation and treatment of morphea. *J Am Acad Dermatol*. (submitted) 2015.

NON-PEER REVIEWED PUBLICATIONS AND OTHER CREATIVE ACTIVITIES

1. Connolly, MK. Lupus Erythematosus. In: Cutaneous Medicine and Surgery: An Integrated Program in Dermatology. (Eds.) KA, Arndt, PE, LeBoit, JK, Robinson, and BU, Wintroub; W.B. Saunders, Philadelphia, PA, pp. 260-282, 1994.
2. Kipervarg, Y, Connolly, MK. Chemically Induced Scleroderma. In: Cutaneous Medicine and Surgery: An Integrated Program in Dermatology. (Eds.) KA, Arndt, PE, LeBoit, JK, Robinson, and BU, Wintroub; W.B. Saunders. Philadelphia, PA, pp. 891-894, 1994.
3. Connolly, MK. Scleroderma and cutaneous sclerosis. *Semin Cutan Med Surg*. 17:1-2, 1998.
4. Liu, B, Connolly, MK. The pathogenesis of cutaneous fibrosis. *Semin Cutan Med Surg*. 17:3-11, 1998.
5. Connolly, MK. Sjogren's Syndrome. *Sem Cutan Med Surg*. 20:46-52, 2001.
6. Connolly, MK. Scleroderma *Dermatol Therapy*. 14:81-94, 2001.
7. Connolly, MK, Tuffanelli, DL. Systemic sclerosis. In: Cutaneous Manifestation of Rheumatic Diseases. (eds.) RD, Sontheimer, TT, Provost. 2nd edition. Lippincott Williams & Wilkins, Philadelphia, PA, pp 104-158, 2004.
8. Connolly, MK.. Systemic sclerosis (scleroderma) and related disorders. In: Dermatology. JL, Bologna, JL Jorizzo, RP Rapini (eds.). 2nd edition. Elsevier. London, UK. Pp 585-596, 2008.
9. Sargent JL, Milano A, Connolly, MK, Whitfield ML. Scleroderma gene expression and pathway signatures. *Curr Rheumatol Rep*. 10:205-11, 2008.
10. Katsumoto TR, Whitfield ML, Connolly MK. The pathogenesis of systemic sclerosis. *Ann Rev Pathol*. 28;6:509-37, 2011.
11. Connolly, MK. Systemic sclerosis (scleroderma) and related disorders. In: Dermatology. JL, Bologna, JL, Jorizzo, RP Rapini (eds). 3rd edition. Elsevier. London, UK. Pp 643-655, 2012.
12. Ruben B, Connolly MK. Rheumatoid Nodules. In: Handbook on Manifestations of Rheumatic Disease. D. Fiorentino, D. Furst and Matucci (eds.) Springer (in press) 2012.
13. Connolly MK, McCalmont TH. Cutaneous Sclerosis. In: Handbook on Manifestations of Rheumatic Disease. Fiorentino D, Furst D and Matucci M (eds). Springer (in press) 2012.

2015 Ishmael Lectureship



14. Haemel A, Fox LP, Connolly MK. Cutaneous small-vessel vasculitis. In: Vasculitis. Ball GV, Bridges SL Jr (eds). 3rd edition. Oxford University Press, 2014.

OTHER CREATIVE ACTIVITIES

Website: <http://www.dermatology.ucsf.edu/autoimmune/> and <http://www.stanford.edu/scleroderma/>

ABSTRACTS

1. Connolly, MK, Wofsy, D. The thymus retains the ability to deplete autoreactive T cells in aged normal and autoimmune mice. *Arthritis Rheum.* 34:S185, 1991.
2. Connolly, K, Wofsy, D. Regulation of autoantibody production in a SCID model of lupus. *Clin Res* 40:198A, 1992.
3. Connolly, MK, Wofsy, D. Development of autoantibodies in a SCID model of murine lupus. *Arthritis Rheum.* 35:S9, 1992.
4. Liu, B, Zheng, S, Zhang, X, Wyler, DJ, Connolly, MK. Fibrosis in scleroderma is mediated by a dysregulated autocrine loop involving a novel fibrogenic cytokine, fibrosin. In 2nd joint Meeting of the Wound Healing Society and European Tissue Repair Society. 1996.
5. Connolly, MK, Zheng, S, Deng, VW, Wyler, DJ, Liu, B. Fibrosis in scleroderma is mediated by a secreted protein, fibrosin that acts as an autocrine growth factor. *J Invest Dermatol.* 108:546, 1997.
6. Toro, J, Finlay, D, Dou, X, Zheng, S, Connolly, MK. Evidence for TH1 cytokines in tissue inflammation in discoid lupus. *J Invest Dermatol.* 108:639, 1997.
7. Connolly, MK, Venstrom, K, Finlay, D, Dou, X, Jackman, J, Findell, P. Endoglin, a transforming growth factor beta receptor III, is upregulated in scleroderma dermal fibroblasts. *J Invest Dermatol.* 112:587, 1999.