

Laurence Morel, Ph.D.

Female

US citizen

Current Position:

Mary and Ryan Whisenant Family Professor of Pathology, Department of Pathology, Immunology, and Laboratory Medicine University of Florida

Director of the Division of Experimental Pathology, Department of Pathology, Immunology, and Laboratory Medicine University of Florida

Business Address:

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EDUCATION:

Universite Aix-Marseille II: DEUG in Biology, 1978

Universite Aix-Marseille I: Master degree in Animal Biology, 1980

Universite Aix-Marseille II: PhD in Neuroscience/ Behavioral Sciences, 1983

APPOINTMENTS:

- Foreign Research Visitor, Department of Entomology, University of Georgia, 1985-1986.
- Post-doctoral Assistant, Department of Pathology and Laboratory Medicine, College of Medicine, University of Florida, 1991-1992.
- Visiting Assistant IN, The postdoctoral program of the Department of Pathology and Laboratory Medicine, College of Medicine, University of Florida, 1993-1996.
- Assistant Scientist, Department of Pathology and Laboratory Medicine, College of Medicine, University of Florida, 1996-1998.
- Member of the Center for Mammalian Genetics, 1996-2005.
- Assistant Professor, Departments of Medicine, and Pathology, Immunology, and Laboratory Medicine University of Florida, January 1999-2004.
- Graduate Faculty member, Inter Disciplinary Graduate Program, College of Medicine, University of Florida, June 1999-date.
- Member of the Genetics Institute, 2000-date.
- Co-Director of the Immunology and Microbiology Inter Disciplinary Program Advanced Concentration, 2002-2009.
- Associate Professor, Department of Pathology, Immunology, and Laboratory Medicine University of Florida, January 2004-2007.
- Associate Director of the Division of Experimental Pathology, Department of Pathology, Immunology, and Laboratory Medicine, 2005-2007.
- Professor, Department of Pathology, Immunology, and Laboratory Medicine University of Florida, May 2007-date.

- Director of the Division of Experimental Pathology, Department of Pathology, Immunology, and Laboratory Medicine, July 2007-date.
- Member of the Center for Immunology and Transplantation, 2007-date.
- Mary and Ryan Whisenant Family Chair in Experimental Pathology, December 2008.
- Member of the Center for Mucosal Immunology and Inflammation, 2012-date

ACADEMIC AND PROFESSIONAL HONORS

- Doctoral dissertation grant, Direction Generale de la Recherche Scientifique et Technique, France 1981.
- Research Grant, Societe des Amis des Sciences, France. 1983
- Research Grant, Fondation Singer-Polignac, France. 1985
- Foreign Research Visitor Grant, Formation des Francais a l'Etranger, Ministere des Relations Exterieures, France. 1985
- Research Grant, Fondation Les Treilles, France. 1986
- Grinter Scholar, Graduate School of the University of Florida. 1988-1991
- National Research Service Award fellowship, National Institute of Allergy and Infectious Diseases. Project title: "Mapping susceptibility genes of murine SLE". 1993-1996
- Arthritis Investigator Award, Arthritis Foundation. Project title: "Genetic characterization of a major SLE-susceptibility locus on mouse chromosome 1". 1996-1999
- Howard Hughes Research Resources Program Pilot Project Award. Project title: "Functional and Genetic characterization of autoimmune and tumorigenic on murine chromosome 4". 1999
- College of Medicine Incentive Fund Award: Delineation of SLE functional pathways using cDNAs microarrays. 1999
- American Cancer Society –18th International Cancer Congress Travel Award. 2001
- Department of Pathology Faculty Council representative. 2004-2007.
- Faculty of 1000 Biology: Member, 2006-date.
- Elected Member of the Henry Kunkel Society for Clinical Immunology, 2006.
- University of Florida Faculty Recognition Award, 2007
- Exemplary Teacher Award, UF College of Medicine. 2006-2007
- UF College of Medicine Faculty Research Prize Basic Science, 2006-2007
- Exemplary Teacher Awards, UF College of Medicine 2004, 2007; 2008; 2009; 2010, 2011.
- University of Florida Research Foundation member, 2008-2011.
- Appointment to the Mary and Ryan Whisenant Family Chair in Experimental Pathology, December 2008.
- Elected to the AAI Education Committee, 2010-2012.
- Elected Henry Kunkel Society Councilor, 2014-2017

UNIVERSITY OF FLORIDA GOVERNANCE

- College of Medicine Promotion and Tenure Committee ad hoc member, 2005.
- UF COM Faculty Council, Department of Pathology elected representative, 2005-2008.
- College of Medicine Promotion and Tenure Committee elected member, 2008-2010.
- Thomas H. Maren Junior Investigator award Committee Member, Fall 2009.
- Thomas H. Maren Postdoctoral fellowship award Committee Member, Spring 2011.
- University of Florida Graduate faculty Mentoring Award Committee Member, Spring 2011.
- University of Florida Searle Scholars Program Committee Member, Summer 2012
- Pew Scholars Program in the Biomedical Sciences Program Committee Member, Summer 2012.
- Opportunity Fund grant review, March 2013.
- Center for Mucosal Immunology and Inflammation 2013 retreat planning committee.

UNIVERSITY OF FLORIDA SEARCH COMMITTEES:

- Member, Dermatology Division Chief, Department of Medicine, 2003
- Member, Molecular Genetics and Microbiology faculty recruitment, 2005
- Member, Ethel Smith Chair in Vasculitis Research, Department of Medicine, 2006
- Member, Dermatology Division Chief, Department of Medicine, 2007-08
- Chair, Department of Pathology, Immunology, and Laboratory Medicine, Assistant Professor Faculty, Fall 2008.
- Member, Department of Pathology, Immunology, and Laboratory Medicine, Chief Administrative Officer, Spring 2009.
- Chair, Department of Pathology, Immunology, and Laboratory Medicine, Assistant Professor Faculty, Summer-Fall 2009.
- Chair, Department of Pathology, Immunology, and Laboratory Medicine, Research Assistant Professor Faculty, Summer 2009.
- Member, Department of Dermatology Chair, 2010.
- Chair, Department of Pathology, Immunology, and Laboratory Medicine, Associate Professor Faculty, Fall 2010/ Spring 2011.
- Member, Department of Pathology, Immunology, and Laboratory Medicine, Assistant Professor Faculty, Fall 2011.
- Member, Department of Pathology, Immunology, and Laboratory Medicine, Research Assistant Professor Faculty, Spring 2012.
- Member, Department of Pathology, Immunology, and Laboratory Medicine & CTSI, Research Assistant Professor Faculty, Spring 2012.
- Member, Department of Pathology, Immunology, and Laboratory Medicine, Molecular Pathology Division Director, Summer 2012
- Chair, Department of Pathology, Immunology, and Laboratory Medicine, Research Assistant Professor Faculty, Spring 2013.
- Chair, Mucosal Immunology/Host:Microbe Interaction Preeminence Initiative, Spring 2014.

PROFESSIONAL MEMBERSHIPS:

- American Association of Immunologists
- Elected to the Henry Kunkel Society, 2007

REVIEW COMMITTEES/ ADVISORY PANELS:

- National Arthritis Foundation, Molecular Biology and Genetics Study Section, 1999-2001.
- NIH-NIAID Ad Hoc review of a Program Project, March 2000 (declined because conflict of interest).
- NIH Immunological Sciences Special Emphasis Panel consultant, September 2000.
- NIH Immunological Sciences Study Section; October 2000, Temporary Member.
- NIH Immunological Sciences Special Emphasis Panel, November 2001
- Cooperative Grants Program of the U.S. Civilian Research and Development Foundation (CRDF), 2001.
- American Cancer Society, Leukemia, Immunology, and Blood Cell Development Study section January 2002-2004.
- NIH General Medicine Special Emphasis Panel, March 2002
- NIH/NIDDK Special Emphasis Panel, May 1 2002
- NIH/NIAMS Special Emphasis Panel, May 15 2002
- NIH/NIAMS Special Emphasis Panel, May 24 2002
- NIH IMS ad hoc study section member, Feb. 24, 2003.
- Wellcome Trust ad hoc reviewer, May 2003
- Alliance for Lupus Research, Member of the Genetic Initiative discussion panel, NYC, NY, July 9 2004.
- NIH HAI study section member, 2004-2007.
- NIH/NIAMS Special Emphasis Panel, January 18, 2005
- Alliance for Lupus Research, study section member, 2005-2008.
- Biomedical Research Council (BMRC) in Singapore, ad hoc review, 2005.
- NIH/NIAMS Special Emphasis Panel, January 2006: declined because of conflict of interest.
- NIH/NIAMS CORT program project study section, March 13-15, 2006.
- VA Immunology A Review, May 9, 2006: invitation declined.
- Canadian Institutes of Health Research, Clinical Investigation committee, May 2006.
- United States-Israel Binational Science Foundation, Arthritis and rheumatism section, June 06.
- NIH ACTS member conflict (MOSS-K06), June 30th, 06.
- Peer-Reviewed Medical Research Program in the Department of Defense (PRMRDD) review panel of SLE, July 10-11, 2006: invitation declined.
- NIH/GGG-T62 Special Emphasis Panel, March 23, 2007.
- NIH ZRG1 GGG-T 90 Special Emphasis Panel, October 30, 2007.
- Arthritis Foundation, Molecular Biology and Genetics Study Section, October 24, 2007
- NIH ZAR1 MLB-G J1 1 Special Emphasis Panel, November 14, 2007.
- NIH NIAMS K award review panel, Spring 2008. Declined due to conflict of interest.
- DOD Lupus Investigator Initiated Research Award, September 14-16 2008.
- Wellcome Trust, September 19, 2008.
- NIH GHD ad hoc study section member, October 6-7, 2008.
- ARRA Challenge grants ad hoc reviewer, spring 2009.

- Peer-Reviewed Medical Research Program in the Department of Defense (PRMRDD) review panel of SLE, July 19-21, 2009.
- NIH NIAMS GO RCA ARRA grant review, July 21-22, 2009.
- NIH GHD ad hoc study section member, October 10-11, 2009.
- NIH HAI ad hoc study section member, February 4-5, 2010
- NIH ZRG1 IMM-J(02)M Special Emphasis Panel, June 9, 2010
- PRMRP 2010 Concept Awards, July 2010
- Medical Research Council (UK) G1001193, August 2010
- PRMRP 2011 Lupus Panel, September 7, 2011
- NIH HAI ad hoc study section member, October 13-14, 2011
- Alliance for Lupus Research TIL grants, October 19, 2011.
- NIH 201201 ZRG1 IMM N04 Special Emphasis Panel, December 13, 2011, chair.
- NIH 2012/05 ZAI1 PA-I (M1) 1 - Antiviral Immunity Program Projects, February 6, 2012.
- NIH 2012 NIAMS P30 RDCC Review, June 13-14, 2012.
- Alliance for Lupus Research TIL grants, October 29, 2012.
- NIH 2013 ZRG1 IMM-C (02) M Special Emphasis Panel, March 1, 2013.
- NIH NIAMS PAR "Identification and Analysis of Causal Variants: Follow-Up on Genome-Wide Association Studies for Arthritis and Musculoskeletal and Skin Diseases", April 8, 2013.
- NIH 2013 HAI Overflow Panel - ZRG1 HAI-K 08, June 7, 2013.
- NIH NIAID Stage 1 CETR, July 2013.
- Lupus Research Institute study section, September 11, 2013.
- NIH NIAID Program Project study section 2014/01 ZAI1 LGR-I (J1), September 16-17, 2013.
- Alliance for Lupus Research TIL grants, November, 2013.
- NIH HAI ad hoc study section member, February 6-7, 2014
- NIH NIAID PAR-13-254 (P01) study section member, June 2014.

BRIEF DESCRIPTION OF JOB DUTIES -

Since my appointment on a tenured-track position (1999), my majority of my duties have been devoted to research and graduate education. My research, which focuses on the genetic basis of autoimmune diseases in animal models, and more specifically Systemic Lupus Erythematosus, has been continuously and entirely funded by external peer-reviewed agencies (mostly NIH). I have been also heavily involved with graduate education through the UF COM Interdisciplinary Program (IDP) at various levels as detailed below. Finally, I have administrative duties (15% FTE) as the Director of the Department of Pathology Experimental Pathology Division, which counts 22 tenure track and 16 research track faculty members.

AREAS OF SPECIALIZATION -

- Immunogenetics
- Animal models of autoimmune diseases (mostly SLE)
- Genetics of complex traits

CURRENT GRANT SUPPORT:

2R01 A058150 02/10/2010-01/31/2015 3.6 calendar months
National Institutes of Health \$266,995

Role: Principal Investigator

Mechanisms of B cell Developmental defect in murine lupus

Objective: This project proposes to define the mechanisms of B cell developmental defects in the NZM2410 model, specifically regarding B-1a and plasma cells, and to define the role of these defects in lupus pathogenesis.

Opportunity Fund 05/10/2012-04/30/2014 0.6 calendar months

Role: Co-Investigator

UF DSR \$44,000

Role of Pbx1 regulation of MSC function in autoimmunity

ALR-TIL 0000075018 02/01/2013-01/31/2015 1.8 calendar months

Alliance for Lupus Research \$184,681

Role: Principal Investigator

CD4 T cell metabolism in SLE: Characterization and target identification

Objective: We propose to characterize defects in CD4+ T cell metabolism in a mouse model of lupus and in lupus patients, and to explore whether treatment with metabolism inhibitors will reverse or alleviate lupus pathology in a mouse model.

R01 AI045050 05/01/2013-04/30/2018 2.4 calendar months

Role: Principal Investigator

Title: Characterization of SLE-susceptibility loci on mouse chromosome 1

Objective: The project proposes to functionally characterize the *Sle1* cluster of SLE-susceptibility genes, including *Sle1a1* and *Sle1c2* in T cells. The discovery of the Pbx1 lupus susceptibility gene was achieved in this project. We are continuing to investigate the role of Pbx1 in T cells.

Lupus Research Foundation 10/01/2013-09/30/2014 1.2 calendar months

Role: Principal Investigator

Title: Genetic regulation of stem cell dysfunction in a mouse model of lupus

Overall Goals: This proposal has great potentials to be translated into human studies and to predict in which SLE patient stem cell therapy will be successful and to expand the reach of lupus susceptibility genes from the immune system to stem cells.

ALR-TIL 0000085521 2/1/2014-1/31/2017 1.2 calendar months

Role: Principal Investigator

Title: High Throughput Screening to Repurpose Drugs for Lupus Therapies

Overall Goals: The purpose of this project is to implement a highly effective screening pipeline to assess therapeutic potentials of existing drugs in specified mouse models of lupus. We propose to focus on three compounds targeting immunometabolism – dichloroacetate, metformin, and rapamycin. The pipeline is designed to be scalable and to serve as a template for systematic and efficient screening of additional metabolic drugs and other classes of compounds in later phases of the project.

Pending support

NIH R21 07/01/14-06/30/14 1.2 calendar months

Role: Principal Investigator

Title: G-CSF receptor regulation of neutrophils in lupus

Overall Goals We have identified in a mutated form of a gene encoding for granulocyte-colony stimulating factor receptor (GCSFR) that suppresses lupus in the mouse. The growth factor (G-CSF) that binds to this receptor is known together up- or down regulate the immune system, but very little is known on its role in lupus. Moreover, G-CSF regulates the number and functions of neutrophils, a blood cell type that has been implicated in lupus pathogenesis. We propose to investigate how the G-CSF pathway controls lupus development and identify the role of neutrophils in this regulation. Results from this proposal will show how the G-CSF/G-CSFR pathway can be manipulated to counteract the development of lupus.

COMPLETED GRANT SUPPORT:

2R01 AI045050-16 (Morel) 05/01/2008-04/30/2013 3.6 calendar
 National Institutes of Health \$237,690 year 1-2, 327,686 year 3
 Characterization of SLE-susceptibility loci on mouse chromosome 1
Objective: This project proposes to characterize how two lupus susceptibility genes, *Pbx1* and *Esrrg*, affect CD4 T cell tolerance in lupus-prone mice and lupus patients.

F31 AI094925 (Morel/Sang) 02/10/2012-02/09/2015 0.0 calendar
 National Institutes of Health \$34,959
 Mechanisms of B cell Developmental defect in murine lupus
Objective: Fellowship to support graduate student Allison Sang

NIH/NIAID 2R01 AI045050 Morel (PI) 05/01/08 to 04/30/13 3 calendar mo
 \$291,068
 Characterization of SLE-susceptibility loci on mouse chromosome 1
 The major goal of this project proposes to functionally characterize the *Sle1* cluster of SLE-susceptibility genes, including *Sle1a1*. This proposal, however, does not include any experiment that would investigate the role of retinoic acid in the function of *Sle1a1*. Some of the mouse strains and controls used in the LRI proposal will be provided through this NIH proposal.

NIH/NIAID RO1- AR44731 W. Reeves (PI) 9/26/06 to 08/31/11 0.6 Calendar mo
 \$209,347
 Pathogenesis of Autoantibodies in Pristane-Induced Lupus
 The major goal of this project uses the pristane-induced autoimmunity mouse model to investigate the mechanisms by which pathogenic autoantibodies are produced.

Alliance for Lupus Research, K. Elkon, Univ. Washington, PI 2/1/08 TO 1/31/10 .96 calendar mo
 \$500,000
 Lysis of Immunostimulatory nucleoproteins in SLE Morel (PI)
 The major goals of this project will test the hypothesis that clearances of apoptotic materials through over-expression of DNaseI will be reduce lupus pathology in the NZM2410 mouse model.

Alliance for Lupus Research TIL 113286: Morel (PI) 2/1/09 to 1/31/11 1.20 calendar mo
 \$206,027
 Retinoic acid regulation of T cell homeostasis in Lupus
 The major goals of this project is to test the hypothesis that defective responses to retinoic acid skews the Treg/ TH17 homeostasis in *Sle1a1* mice and identify the mechanisms by which *Pbx1* contributes to the process.

R21-AR052366-01- Sobel (PI) 01/01/05-12/31/08
 NIH/NIAMS

Direct costs: \$300,000
Title: Identifying Gene Interactions in SLE by Mixed Chimeras.
Role: Co-Investigator
Efforts: 5%

Rigel Pharmaceuticals (2007)
Project Title: The B6.TC model to investigate to the mechanisms Syk inhibitor protection in lupus.
Direct costs: \$50,000
Role: Principal Investigator
Effort: 2%

PO1 AI39824-02 (Wakeland) NIH 4/1/96 - 3/31/01
Genetic dissection of SLE pathogenesis. Project 1. Genetic dissection of lupus susceptibility using congenic mouse strains.
Project 1 proposing to: 1) To dissect and characterize the genetic mechanisms responsible for the development of murine SLE via the analysis of congenic and polycongenic strains carrying NXM/Aeg2410-derived SLE susceptibility; and 2) To map the positions of epistatic genes in the NZW genome that suppress the express of SLE 1.
Total direct costs: \$2,810,084
Role: Co-Investigator
Effort: 5%

PO1 AI39824-02 (Morel) NIH 4/96 - 3/31/01
Program Projects on Autoimmunity; Project 2. *Positional cloning of the SLE genes Sle1, Sle2, and Sle3.*
Project 2 proposes to genetically fine-map the position of the 3 *Sle* loci, and then to identify the corresponding genes, either by candidate gene analysis or conventional positional cloning.
Total direct costs: \$2,810,084
Role: Principal Investigator
Effort: 5%

Agency Number: NIMH 59959 (Lenox, Robert H.) 07/1/98 - 6/31/01
Neurobiology of MARCKS: A Macs Mutant Model
This grant proposes to characterize the genetic basis for variations in the expression of *Macs*.
Total Direct Costs: \$747,636
Role: Co-investigator
Effort: 5%

Agency Number: NIH RFA HL-97-010 (W. Castleman)
Title: Genes controlling virus induced asthma in rats
Direct Costs: \$1,125,000
Role: Co-Investigator
Effort: 5%

Agency Number: RO1-NS38179-01 (J. Petitto) 8/1/98 to 7/31/03
National Institutes of Health
Title: IL-2 gene deletion: Neurodevelopment and behavior
Direct costs: \$784,107
Role: Co-investigator
Effort: 10%
This project proposes to characterize the role of IL-2 in neurodevelopment and on behavior by using IL-2 and IL-2R knock-out mice.

Agency Number: R21-ES10277-01 (L. Morel) 10/1/99 to 9/30/02

National Institutes of Health RFA ES-99-003 Environment/Infection/Gene Interaction in Autoimmune Diseases

R21-ES10277

Title: Congenic strains: a model for gene/environment interactions.

Direct costs: \$300,000

Role: Principal Investigator

Efforts: 15%

This project proposes to use a panel of 17 congenic strains that have been developed at UF to carry defined autoimmune genomic intervals as a tool to assess gene/environment interactions, with an initial focus on estrogen and estrogen-like toxins, and mercury.

Agency Number: RO1-AI45050-01 (L. Morel) 3/1/00 to 2/28/03

National Institutes of Health

Title: Characterization of SLE-susceptibility loci on mouse chromosome 1

Direct costs: \$593,089

Role: Principal Investigator

Effort: 30%

The project proposes to functionally characterize the *Sle1* cluster of SLE-susceptibility genes.

Agency Number: RO1-AI43454-01 (E. Sobel) 3/1/00 to 2/28/04

National Institutes of Health

Title: Functional characterization of loci modifying SLE renal disease

Direct costs: \$951,652

Role: Co-Principal Investigator

Efforts: 15%

This project proposes to functionally characterize the positive and negative modifiers of *Sle1* in the context of renal disease.

Agency Number: PO1-AI39824 (E. K. Wakeland program director)

6/1/00 to 5/31/04

National Institutes of Health

Title: Genetic dissection of SLE pathogenesis

Project 3: Characterization of SLE-susceptibility loci on mouse chromosome 4

Direct costs: \$575,369

Role: Principal Investigator

Efforts: 13%

The project proposes to genetically and functionally characterize the *Sle2* cluster of SLE-susceptibility genes on chromosome 4.

American Cancer Society RPG LBC-100205 7/1/01 to 6/31/02

Title: Genetic and functional characterization of B cell lymphomas in the NZM mouse

The project proposes to genetically and functionally characterize B cell lymphoma susceptibility loci in the NZM mouse using QTL mapping and cDNA arrays

Direct costs: \$248,000. First Annual costs: \$124,000

Role: Principal Investigator

Efforts : 15%

Arthritis Foundation 6/1/02 to 5/31/05.

Joseph Craft, M.D., Ph.D. Yale School of Medicine P.I.

Title: Functional and Genetic Analysis of intrinsic T cell defects in a mouse model of SLE

Direct costs: \$90,000

Role: Co-Investigator

Efforts: 2%

NIH/NIDDK/NIAI 1PO1 A142288-0 2001-2006

PI: Atkinson, M.A.

Title: Immune Function in High and Low Risk Genotypes in IDD

Core B Director Clare-Salzler

Role: Co-investigator

Efforts: 5%

PUBLICATIONS:

Abstracts:

1. Morel, L. Contribution à l'étude des mouvements antennaires associés aux transferts de nourriture, d'ouvrières à ouvrières, chez la fourmi *Camponotus vagus*. Memoire de DEA, Université Aix-Marseille II, 51 p., 1981.
2. Morel, L. Développement des mouvements antennaires associés aux contacts trophallactiques chez la fourmi *Camponotus vagus* Scop. Bull. Int. SF.UISSI, pp. 100-103, 1981.
3. Morel, L. Variabilité dans le développement des mouvements antennaires associés aux contacts trophallactiques chez la fourmi *Camponotus vagus* Scop. Bull. Int. SFECA, 2:245-251, 1982.
4. Morel, L. Mise en place des processus de régulation du comportement agressif et de la reconnaissance entre ouvrières d'une société de *Camponotus vagus* Scop. Colloq. Int. SF/UISSI, (Eds. A. de Haro and X. Espadaler), Barcelona, Bellaterra, pp. 127-136, 1982.
5. Morel, L. Contribution à l'étude des interactions sociales chez les jeunes ouvrières de la fourmi *Camponotus vagus* Scop.: Développement du comportement trophallactique et régulation de l'agressivité. Thèse de 3ème cycle, Université Aix-Marseille II, 164 p., 1983.
6. Bonavita-Cougourdan, A. and L. Morel. Polyéthisme et comportement de relation. Actes coll. Ins. Soc., Presses Univ. Paris XII, 1:27-30, 1984.
7. Bonavita-Cougourdan, A. and L. Morel. Variabilité interindividuelle des comportements de relation chez des insectes sociaux. 19th Int'l Ethological Conference, Toulouse, 1:47, 1985.
8. Morel, L. Ontogenèse de la reconnaissance des membres de la société chez la fourmi *Camponotus floridanus* Buckley. Bull. Int. SFECA, 1987.
9. Morel, L. and R.K. Vander Meer. The role of environment-derived cues in nestmate recognition in red carpenter ant workers. Proceedings 4th Internatl. Soc. Chem. Ecol., Hull, England, p.33, 1987.
10. Hauswirth, W.W., L.E. Desjardin, L. Morel and A.M. Timmers. Developmental patterns of bovine retinal gene expression. Invest. Ophthalmol. Vis. Sci., 31:159, 1990.
11. Morel, L., L.R. Herron, B.L. Kotzin, and E.K. Wakeland. Genetic mapping of anti single-stranded DNA antibody production in the NZW mouse. The 6th international mouse genome conference, Buffalo, 1992.
12. Morel, L., U.R. Rudofsky, and E.K. Wakeland. Genetic mapping of glomerulonephritis associated with systemic lupus erythematosus in the mouse. American Association of Immunologists / Clinical Immunology Society meeting, Denver, CO, 1993.
13. Morel, L., U.R. Rudofsky, and E.K. Wakeland. Polygenic control of SLE Susceptibility in the NZM mouse. Experimental Biology '94, Anaheim, CA, 1994.
14. Morel, L., U.R. Rudofsky, and E.K. Wakeland. Polygenic control of lupus nephritis in the NZM mouse. J. Amer. Soc. Nephrol., 5: 759, 1994.
15. Morel, L., U.R. Rudofsky, and E.K. Wakeland. Genetic analysis of systemic lupus erythematosus susceptibility in the NZM mouse. J. Cell. Biochem., suppl. 21A: 149, 1995.

16. Wakeland, E.K., Morel, L., Mohan, C., and U.R. Rudofsky. Genetic analysis of systemic lupus erythematosus susceptibility in the NZM mouse. The 9th International Congress of Immunology, San Francisco, CA, 1995.
17. Morel, L., Mohan, C., Croker, B.P., Tian, X.-H., Wakeland, E.K. Antinuclear autoantibody production mediated by a single murine lupus erythematosus susceptibility locus. Keystone symposium, 1996.
18. Mohan, C., Morel, L., Croker, B.P., Wakeland, E.K. A lupus susceptibility interval on chromosome 4 dictates B-cell hyperactivity. Keystone symposium, 1996.
19. Morel, L., Schiffenbauer, J., Rudofsky, U.H., Longmate, J.A., Mohan, C., Sobel, E., Wakeland, E.K. Complex inheritance of component phenotypes in a murine model of SLE. 10th international Mouse Genome Conference, 1996.
20. Mohan, C., Alas, E., Morel, L., Yang, P. And Wakeland, E.K. Genetic dissection of SLE pathogenesis: *Sle1* on chromosome 1 leads to loss of tolerance to H2A/2B/DNA subnucleosomes. ACR 60th scientific meeting, Orlando, Fl., 1996.
21. Vyse, T.J., Morel, L., Tanner, F.J., Wakeland, E.K., Kotzin, B.L. Backcross analysis of genes linked to autoantibody production in New Zealand White mice. ACR 60th scientific meeting, Orlando, Fl., 1996.
22. Morel, L., Mohan, C., Yu, Y., Croker, B.P., Wakeland, E.K. Functional dissection of SLE using congenic mouse strains. Arthritis Research Conference, NIH, May29-June 1, 1997.
23. Mohan, C., Morel, L., Yu, Y., Croker, B.P., Wakeland, E.K. Genetic dissection of SLE pathogenesis using congenic mouse strains. FASEB Summer Research Conference, 1997.
24. Morel, L., Mohan, C., Yu, Y., Croker, B.P., Wakeland, E.K. Genetic dissection of SLE in the NZM2410 model: evidence for NZW epistasis controlling anti-chromatin antibodies and glomerulonephritis. FASEB Summer Research Conference, 1997.
25. Morel, L., Croker, B.P., Blenman, K.B., and Wakeland, E.K. A major negative modifier is linked to the MHC *H2Z* allele in murine lupus. 11th Mouse Genome Conference, St. Petersburg, 1997.
26. McNamara, R.K., Stumpo, D.J., Lewis, M.H., Morel, L., Wakeland, E.K., Blackshear, P.J., Lenox, R.H. Hippocampal Marcks expression is inversely correlated with spatial learning ability and infrapyramidal mossy fiber size in inbred and mutant mice. Society for Neurosciences, 1997.
27. Morel, L., Mohan, C., Croker, B.P., Sobel, E. Wakeland, E.K. *Sle1* on murine chromosome 1 is a key SLE-susceptibility locus. Experimental Biology '98, San Francisco, 1998.
28. Mohan, C., Morel, L., Kontaridis, M., Yang, P., Wakeland, E.K. Genetic dissection of SLE pathogenesis: *Sle3* potentiates *Sle1*-induced autoimmunity. Experimental Biology '98, San Francisco, 1998.
29. Yu, Y., Morel, L., Mohan, C., Croker, B.P., Wakeland, E.K. Functional analysis of SLE susceptibility in B6.NZMc7 congenic mice. Experimental Biology '98, San Francisco, 1998.
30. B. Croker, L. Morel, C. Mohan, and E.K. Wakeland. Glomerulonephritis (GN), proteinuria and pathogenesis of murine lupus nephritis. American Society of Nephrology, Philadelphia, 1998.
31. Morel, L., J. Tulsian, and E.K. Wakeland. Genetic analysis of SLE gender bias using congenic mouse strains. Linking environmental agents and autoimmune diseases, NIEHS Workshop, Research Triangle Park, 1998.
32. Morel, L., B.P. Croker, K.R. Blenman, and E.K. Wakeland. Genetic and functional characterization of the cluster of SLE-susceptibility loci on mouse telomeric chromosome 1. FASEB Summer Research Conference, 1999.

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1. **Morel, L.** and R.K. Vander Meer. Nestmate recognition in *Camponotus floridanus*: Behavioral and chemical evidence for the role of age and social experience. In: Chemistry

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Invited Managing Editor:

- 1 **Morel, L.** *Role of B cells in systemic and organ-specific autoimmune diseases*, Special Edition of "Encyclopedia of Bioscience", Frontiers of Biosciences (selection and edition of 13 reviews), vol. 12, 2007.
- 2 **Morel, L.** B cell development and repertoire selection section, in *Autoimmune Diseases* volume edited by Diamond, B. and Davidson, A., in *Encyclopedia of medical Immunology*, Ian R. Mackay, Noel Rose [Editors], Springer, 2013.

Peer-reviewed papers:

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Invited reviews

1. Wakeland, E.K., **Morel, L.**, Mohan, C., and Yui, M. Genetic dissection of lupus nephritis in murine models of SLE. J. Clin. Immunol., 17: 272-281, 1997.
2. **Morel, L.** and Wakeland, E.K. Susceptibility to lupus nephritis in the NZB/NZW model system. Current Opinion in Immunology, 10: 718-723, 1998.
3. **Morel, L.**, Yui, M., and Wakeland, E.K. La contribution des modeles murins a la comprehension des maladies autoimmunitaires. In: Les modeles animaux de maladies humaines genetiquement determinees, Annales de l'Institut Pasteur - Actualites, 9: 351-360, 1998.
4. Morel, L., and E. K. Wakeland. Lessons from the NZM and B6.NZM congenic strains. In: Genetics of SLE (Ed. T. Shirai). Int. Rev. Immunol., 19: 423-446, 2000.
5. Morahan, G., and Morel, L. Genetics of autoimmunity in patients and models. Current Opinions in Immunol., 14: 803-811, 2002.

6. **Morel, L.** Mouse models of human autoimmune diseases: Essential tools that require the proper controls. *PLoS Biol.*, 2: 1061-1064, 2004.
7. Chen, Y., and **Morel, L.** Genetics of T cell defects in lupus. *Cell. Mol. Immunol.* 2:403-409, 2005.
8. **Morel, L.** PI3K controls B cells' sweet tooth for growth. *Inside Blood invited capsule, Blood*, 107: 4201 – 4202, 2006.
9. Xu, Z., Duan, B. and **Morel, L.** Genetics of autoreactive B cells. In: *Role of B cells in systemic and organ-specific autoimmune diseases*, L. Morel Ed. *Frontiers in Biosciences*, 12: 1707-1721, 2007.
10. Duan, B. and **Morel, L.** Role of B-1a cells in autoimmunity. *Autoimm. Rev.*, 5, 403-408, 2006.
11. **Morel, L.** Genetics of human of lupus nephritis. *Seminars in Nephrology*, 27, 2-11, 2007.
12. **Morel, L.** Genetics of SLE: Evidence from mouse models. *Nat. Rev. Rheumatol.*, 6, 348-357, 2010. <http://www.ncbi.nlm.nih.gov/pubmed/20440287>
13. Xu, Z. and **Morel, L.** Genetics of systemic lupus erythematosus: Contributions of mouse models in the era of human genome-wide association studies. *Discov. Med.*, 10, 71-78, 2010.
14. Perry, D., Sang, A., Yin, Y., Zheng Y.Y., and **Morel, L.** Murine models of systemic lupus erythematosus. *J. Biomed. Biotech.*, 2011:271694, 2011. PMID: PMC3042628.
15. Perry, D, Peck, A.B., Carcamo, W.C, **Morel, L.**, and Nguyen, C.Q. The new frontiers of T_H17 cells in systemic lupus erythematosus. *Arthritis*, 2011;2011:810649. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3226200/?tool=pubmed>
16. **Morel, L.** Editorial: AICDA catalytic domain as a target to eliminate pathogenic autoantibodies. *Arthritis and Rheumatism*, 2011 Jan 21. doi: 10.1002/art.30256. PMID:PMC Journal In Process.
17. **Morel, L.** Mapping Lupus Susceptibility Genes in the NZM2410 mouse model. *Adv. Immunol.*, 115:113-39, 2012; PMID:22608257, PMID:PMC Journal In Process
18. Sang, A., Yin, Y., Zheng Y.Y., and **Morel, L.** Animal models of molecular pathology: systemic lupus erythematosus. *Prog Mol Biol Transl Sci*, 105: 321-370, 2012.PMID: PMC3190397.
19. Sang, A., Zheng Y.Y., and **Morel, L.** Contributions of B cells to lupus pathogenesis *Molecular Immunology*, 2013 Dec 11. pii: S0161-5890(13)00564-6. doi: 10.1016/j.molimm.2013.11.013. [Epub ahead of print

Patent

Wakeland, E.K., Wandstradt, a., and Morel, L. Isolation of genes within *Sle1b* that mediate a break in immune tolerance. UTSD: 722, May 17, 2000.

TEACHING EXPERIENCE

- GMS 6140: 2 lectures and 1 TBL lab, Spring 20103
- Immunology advanced concentration Journal club: Spring 2001-present. Course Director.
- GMS 6337: B Cell Development in Health and Disease 2007-present Course Director.
- GMS 5905: Special Topics: Immunology & Microbiology Grant Writing 2009. Course Director.
- Medical Student Basic Immunology Module (W. Winter course Director), Discussion leader, 1992-2011.
- GMS 6030: Autoimmunity
 - 1999 3 lectures
 - 2001 course director

- 2002 course director
- 2003 1 lecture
- 2006: course director
- 2007: 1 lecture
- GMS 6001: Core Genetics
 - 1999 2 lectures
 - 2000 6 lectures
 - 2001 2 lectures
- GMS 6011: Mouse Genetics
 - 2001 7 lectures
 - Spring 2002 course director
 - Fall 2002-2007: course director
- GMS6381 Cellular & Molecular Basis of Kidney Diseases:
 - 2004 2 lectures
 - 2006 2 lectures
 - 2008 2 lectures
- ICBR Tools for recombinants DNA workshop March 6-10, 2000: one lecture:
- Genetic analysis of disease susceptibility
- Pathology Residents Molecular Pathology rotation “wet lab” 2000 4 lectures
- Pathology Residents Molecular Pathology 2003 1 lecture
- Direction of undergraduate research projects, Department of Microbiology and Cellular Biology, 1992-date.

Graduate Education leadership:

- Member of the IDP Graduate student admission committee 2000 - 2001.
- Co-director of the IDP Immunology Advanced Concentration, 2002 – 2009.
- Member of the IDP Graduate Program Advisory Board, 2000 – 2009.
- T32 Training Grant “Immunologic/Genetic Mechanisms of Rheumatic Disease” (W.H. Reeves PI), co-I, Advisory Committee member, 2005-present.

Trainees

- Kim Blenman, Masters student, 2000-2001.
- Anusha Vallurupalli, M.D., Masters student, 2009-2010.

- Kim Blenman, Graduate student, 2001-2004.
- Biyan Duan, Graduate student, 2002-2006.
- Carla Cuda, Graduate student, 2004-2008.
- Daniel Perry, Graduate student, 2006-2011.
- Allison Sang, Graduate student, 2009-2013.
- Yiming Yin, Graduate student, 2010-present.
- Ying Li Zheng, Graduate student, 2010-present.
- Ramya Sivakumar, Graduate student, 2012-present.
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- YiFang Chan, M.D. Postdoctoral Fellow, 2002-2004.
- Zhiwei Xu, Ph.D. Postdoctoral Fellow, 2002-2009.
- Haitao Niu, Ph.D. Postdoctoral Fellow, 2005-2009.
- Suigui Wan, M.D. Postdoctoral Fellow, 2005-2007.
- Biyan Duan, M.D., Ph.D. Postdoctoral Fellow, 2006-2007.
- Zhenhai Zhou, M.D., Ph.D. Postdoctoral Fellow, 2007- 2009.

- Carla Cuda, Ph.D. Postdoctoral Fellow, 2009.
 - Hari Hara Potula, Ph.D. Postdoctoral Fellow, 2009-2013.
 - Shujuan Liang, M.D., Postdoctoral fellow, 2010-2011
 - Margareta Lantow, Ph.D. Postdoctoral fellow, 2011-2012
 - Mayami Sengupta, Ph.D., Postdoctoral fellow, 2011-2013
 - Seung-Chul Choi, Ph.D., Postdoctoral fellow, 2013-
-
- Zhiwei Xu, Ph.D. Research Assistant Professor, KO1 award recipient 2009-2014.

Graduate students' committee membership

1. Stormy Chamberlain, College of Medicine Inter Disciplinary Graduate Program, 1999-2003.
2. Xuezhong Cai, Department of Pathobiology, College of Veterinary Medicine, 2000-2002.
3. Frances Bajhat, College of Medicine Inter Disciplinary Graduate Program, 2000-2002.
4. Christin Collins, College of Medicine Inter Disciplinary Graduate Program, 2001-2005.
5. J.G. Gao, College of Medicine Inter Disciplinary Graduate Program, 2001-2004.
6. Liya Pi, College of Medicine Inter Disciplinary Graduate Program, 2002-2005.
7. QuigGuo Rua, College of Medicine Inter Disciplinary Graduate Program, 2002-2004.
8. Rahul Kanadia, College of Medicine Inter Disciplinary Graduate Program, 2002-2004.
9. Chris Mueller, College of Medicine Inter Disciplinary Graduate Program, 2002-2006.
10. Chris Mariani, College of Medicine Inter Disciplinary Graduate Program, 2002-2006.
11. Bei Wang, College of Medicine Inter Disciplinary Graduate Program, 2004-2007.
12. Kindra Kelly, College of Medicine Inter Disciplinary Graduate Program, 2004-2007.
13. Ashley Martino, College of Medicine Inter Disciplinary Graduate Program, 2004-2008.
14. Tolga Barker, College of Medicine Inter Disciplinary Graduate Program, 2004-2007.
15. Donghang Zheng, College of Medicine Inter Disciplinary Graduate Program, 2004-2006
16. Matt Parker, College of Medicine Inter Disciplinary Graduate Program, 2005-2008.
17. Pablo Pinedo, Department of Infectious Diseases, College of Veterinary Medicine, 2006-2008
18. Josh Powe, DVM, Department of Pathobiology, College of Veterinary Medicine, 2006-2009.
19. Sushrusha Nayak, College of Medicine Inter Disciplinary Graduate Program, 2007-2010.
20. Erika Eksioglu, College of Medicine Inter Disciplinary Graduate Program, 2007-2010.
21. Isaac Boss, College of Medicine Inter Disciplinary Graduate Program, 2007-2011.
22. Yaima Luzardo, College of Medicine Inter Disciplinary Graduate Program, 2008-2012.
23. Christopher Furhman, College of Medicine Inter Disciplinary Graduate Program, 2009-.
24. Shindu Arivazhagan, College of Medicine Inter Disciplinary Graduate Program, 2009-.
25. Yuan Xu, College of Medicine Inter Disciplinary Graduate Program, 2009-.
26. Judit Cserny, College of Medicine Inter Disciplinary Graduate Program 2011-
27. Christina Graves, College of Medicine Inter Disciplinary Graduate Program 2012-
28. Robert Whitener, College of Medicine Inter Disciplinary Graduate Program 2013-
29. Pritesh Desai, College of Medicine Inter Disciplinary Graduate Program 2013-
30. Britney Newby, UF MD-PhD program, 2014-

Undergraduate students

- Jerome Gray, UF
- Nadege Charles, UF
- Kim Blenman, UF
- Kimberly Aiken, UF

- Elisabeth Berg, Duke University, recipient of an Arthritis Foundation Summer student fellowship
- Kareem Abdelfatah, UF, recipient of an Arthritis Foundation Summer student fellowship
- Dane Thomas, UF.
- Shrivani Parick, UF-SSTP (High-School Student)
- Kenji Kayes, UF
- Aaron Brice, UF
- Elsa Santillana, UF
- Stephanie Montenegro, UF
- Yunfai Ng, UF

Student Science Training Program (High School Seniors)

- Kate Bautista (summer 2011)

INVITED TALKS

- Arthritis Foundation, North Florida Chapter: "Genetic analysis of SLE in a mouse model". March 29, 1997, Gainesville, FL.
- The Richard and Nancy Leeds Seminars in Experimental Pathology: "Functional and genetic dissection of a murine model of SLE". October 27, 1998, Northshore University Hospital, Manhasset, NY.
- Aventis Pharmaceuticals: "Genetics of SLE in a mouse model" Bridgewater, NJ, January 22, 2001.
- The Lupus Genetics Conference, Oklahoma Medical Research Foundation, Oklahoma City, Ok, "Functional Differences Between the *Sle1* Loci Revealed through Their Interactions With Other SLE Susceptibility Genes", September 9, 2001.
- Yale Immunobiology Seminar Series Yale University, "Functional and Genetic Analysis of the *Sle1* Locus" October 18, 2001
- Hospital for Special Surgery, New York, NY, "Functional and Genetic Analysis of the *Sle1* Locus" October 19, 2001.
- Mouse Genetics Advanced Course, December 17-21, 2001, Pasteur Institute, Paris, France
- Toronto Western Research Institute, Toronto, Canada "Functional analysis of the *Sle1* locus and its interactions with other SLE-susceptibility loci" February 19, 2002.
- Dartmouth University, Lebanon, NH, "Genetic analysis of lupus susceptibility and sepsis resistance in the NZM2410 mouse" May 6, 2002.
- Molecular Biology and Immunology Interdisciplinary Graduate Program, University of Iowa, Iowa City, IO, "Genetic analysis of lupus susceptibility in a mouse model", September 11, 2002.
- Mouse Genetics Advanced Course, December 15-19, 2002, Pasteur Institute, Paris, France
- NIEHS workshop: Environmental factors in autoimmune disease, Durham, NC: "Congenic strains as a tool to analyze gene / environment interactions in autoimmune diseases", Feb 4-5, 2003
- Genetic and Translational Medicine Center, University of Alabama at Birmingham, "Genetic analysis of lupus susceptibility in a mouse model", March 17, 2003.
- Workshop on the Genetics and Mechanisms of Autoimmunity, "Using BCR transgenics in the NZM model" Princeton, NJ; March 21-23

- Workshop on Collaborative Approaches to Genetics of Rheumatic Diseases, NIH/NIAMS, Bethesda, MD, June 24-25, 2003.
- University of Virginia SCOR on SLE symposium, "Genetics of SLE in the NZM2410 model", Charlottesville, VA, Oct. 1-2, 2004.
- Department of Oral Biology, College of Dentistry, University of Florida, "The hunt of lupus genes", March 14, 2005.
- Mayo Clinic, Department of Immunology "Genetic analysis of lupus susceptibility in a mouse model", Rochester MN, May 19, 2005.
- Aegean Conference: Autoimmunity: Mechanisms and Novel Treatments" Santorini, Greece, September 25-30, 2005.
- NIH-NIAMS, Autoimmunity Branch: Genetics of B cell contribution to SLE in a murine model, February 15, 2006.
- Medical College of Georgia, Center for Biotechnology and Genomic Medicine: "Genetic analysis of lupus susceptibility in a mouse model", Augusta, GA, March 6, 2006.
- Jacksonville University, Science and Engineering Lecture Series: "Genetic analysis of lupus using a mouse model", Jacksonville, FL, March 29, 2006.
- University of Nebraska, Department of Genetics, Cell Biology and Anatomy: "Using congenic analysis to find lupus susceptibility genes", Omaha, NE, May 5, 2006.
- Rigel Pharmaceutical Inc. Lupus Day 2006 "The B6.Sle1.Sle2.Sle3 triple congenic mouse as a model of lupus", San Francisco, CA, June 1, 2006.
- University of Alabama at Birmingham "Genetics of analysis of autoreactive B cells in a murine model of lupus", Birmingham, AL, January 9, 2007.
- Harvard Medical School, Division of Immunology "Genetic and functional analysis of the Sle1a lupus susceptibility locus", Boston, MA, February 13, 2007.
- Oklahoma Medical Research Foundation "Genetic determination of T cell autoreactivity in a mouse model of lupus", Oklahoma City, OK, May 31, 2007.
- Harvard Institutes of Medicine First Lupus Symposium: "The Sle1c murine lupus susceptibility locus", Boston, MA, Sept. 7, 2007.
- University of Florida Genetics Institute: "Genetic analysis of lupus using a mouse model", Gainesville, FL, Oct. 18, 2007.
- University of Colorado Health Science Center, Division of Rheumatology, Department of Medicine and Department of Integrated Immunology: "Genetic and functional analysis of the Sle1c locus", Denver, CO, Jan. 29, 2008.
- Thomas Jefferson University, Department of Microbiology and Immunology: "Genetic analysis of systemic lupus erythematosus in a mouse model", Philadelphia, PA, Feb. 28, 2008.
- Temple University, Department of Microbiology and Immunology: "Genetic analysis of systemic lupus erythematosus in a mouse model", Philadelphia, PA, Feb. 29, 2008.
- Merinoff Symposium "Systemic Lupus: Bringing Science to the Patient": "Chasing genes involved in tolerance to nuclear antigens", Mohonk Mountain House, NY, September 24-27, 2008.
- UTSW, Department of Immunology seminars series: "The Sle1 SLE susceptibility locus". Dallas, TX, December 10, 2008.
- 17th annual meeting of the Henry Kunkel Society: "Genetic determination of autoreactive T cells in a mouse model of lupus". The Rockefeller University, New York, April 22-25, 2009
- UAB Division of Rheumatology and Clinical Medicine: "Using a Mouse Model to Dissect Lupus Pathogenesis", Birmingham, AL, July 15, 2009.

- UF Department of Microbiology and Cell Science: “Genetic determination of autoreactive T cells in a mouse model of lupus”. Gainesville, FL, November 30, 2009.
- Medical College of Georgia Department of Medicine: “Genetic of lupus: updates from the NZM2410 model”, Augusta, GA, April 19, 2010.
- 18th annual meeting of the Henry Kunkel Society: “The cell cyclin kinase inhibitor *Cdkn2c* contributes to lupus susceptibility by regulating B and T cell homeostasis and differentiation”. The Rockefeller University, New York, NY, April 21-24, 2010.
- Alliance for Lupus Research Meeting: “Retinoic acid regulation of T cell homeostasis in lupus”, New York, May 17, 2010.
- Feinstein Institute’s Center for Autoimmune Diseases: “Genetic of lupus: lessons learned from the *Sle1* locus”, Manhasset, NY, May 18, 2010.
- 9th International Congress on Systemic Lupus Erythematosus: “Genetics of lupus: what did we learned from the mouse?” Vancouver, Canada, June 24-27, 2010.
- Gwen Knapp Center for Lupus and Immunology Research Symposium: “Mechanisms of autoreactive B cell activation in the NZM2410 model” University of Chicago, October 8-9, 2010.
- Carter Immunology Center University of Virginia, “Genetic dissection of the NZM2410 mouse model of lupus”. September 19, 2011.
- Department of Immunology, Lerner Research Institute, Cleveland Clinic, “Dissection of the murine *Sle1* lupus susceptibility locus”. November 16, 2011.
- Pfizer Lupus mini-symposium, December 2, 2011, Cambridge, MA.
- Merck Invited speaker, March 9, 2012, Cambridge, MA.
- Nature Immunology and Hudson Alpha Immunogenomics meeting: “Lupus susceptibility genes: how to use the mouse to decipher human lupus pathogenesis” October 1-3, 2012, Huntsville, AL.
- 2012 International Forum of Stem Cell and Regenerative Medicine and the Symposium for New Advance of Mesenchymal Stem Cell Therapy in Autoimmune Disease. “Regulation of MSC function by the lupus susceptibility gene *Pbx1*”. Dec 7-9, 2012 Nanjing, China
- Department of Rheumatology, Capital Medical University. “Murine models of SLE”, Beijing, China, December 14, 2012.
- Alliance for Lupus Research 2013 Symposium: “T cell metabolism defects in lupus” New York, NY, June 3-4, 2013.
- UAB 2013 Spring Immunology Symposium, “T cell metabolism defects in lupus”. Birmingham, AL, June 22-23, 2013.
- 5th International conference on B cells and autoimmunity, “Genetic and functional analysis of B cell defects in a mouse model of lupus”, Como, Italy, Aug. 19-21, 2013.
- Distinguished Speaker for the Microbiology and Immunology Seminar Series, University of Louisville, “Genetic analysis of lupus susceptibility: Tracking down a gene that regulates T cell autoreactivity”, Louisville, KY, September 19, 2013.
- University of Florida Center for Inflammation & Mucosal Immunology Symposium, “CD4⁺ T Cell Metabolism in SLE”, Gainesville, FL, October 19, 2013.
- Department of Medicine Division of Rheumatology, Northwestern University, Grand Round lecture “Genetic analysis of lupus susceptibility: Tracking down a gene that regulates T cell autoreactivity”, Chicago, IL, January 16, 2014.
- The Jackson Laboratory “Metabolic inhibitors as a treatment for lupus in the B6.Sle1.Sle2.Sle3 mouse model”, Bar Harbor, ME, January 20, 2014.

- Pennsylvania State University College of Medicine, Dept. of Microbiology and Immunology seminar series. “Genetic determination of autoreactive CD4 T cells in lupus”. Hershey, PA, February 27, 2014.
- UF-HHMI Science for Life seminar: “Pathogenesis of Systemic Lupus Erythematosus” April 10, 2014
- UF MD-PhD Training Program / Monthly Educational Dinner “Genetics of Systemic Lupus Erythematosus”. April 16, 2014

EDITORIAL BOARDS OF SCIENTIFIC JOURNALS

- Autoimmunity, Editorial Board Member, 2005 - 2008.
- BMC Immunology, Associate Editor, 2008 - 2010
- BMC Immunology, Editorial Board Member, 2004 - 2013.
- BMC Immunology, Immunogenetics Section Editor 2010 - 2013
- Clinical and Translational Sciences Editorial Board Member, 2007 - .
- Frontiers in Biosciences, Managing Editor, 2006.
- Immunology and Cell Biology, Editorial Board Member, 2007 - 2012.
- Journal of Immunology, Associate Editor 2009 - 2013.
- Laboratory Investigation, Associate Editor, 2003 - 2008.
- Laboratory Investigation, Editorial Board Member, 2008 - .2012
- Frontiers in B cell biology: Review Editorial Board Member, 2010 –
- Arthritis & Rheumatism: Advisory Editor, December 2012-
- Journal of Immunology, Section Editor, 2013-2016
- Genes and Immunity, editorial Board Member 2013-2016

AD HOC PEER-REVIEWS FOR SCIENTIFIC JOURNALS

- AJP- Heart and Circulatory Physiology
- Arthritis and Rheumatism
- Arthritis Research and Therapy
- Autoimmunity
- Blood
- BMC Immunology
- BMC Medical Genetics
- BMC Medicine
- British Journal of Dermatology
- Cell Transplantation
- Cellular Immunology
- Clinical and Developmental Immunology
- Clinical and Experimental Immunology
- Clinical Experimental Rheumatology
- Clinical Immunology
- Current Molecular Medicine
- Diabetes
- European Journal of Immunology
- Frontiers in B cell biology
- Future Rheumatology
- Genes and Immunity

- Genomics
- Immunology
- Immunotherapy
- International Journal of Rheumatic Diseases
- Journal of Autoimmunity
- Journal of Clinical Immunology
- Journal of Clinical Investigation
- Journal of Immunology
- Journal of Leukocyte Biology
- Journal of Molecular Medicine
- Journal of the American Society of Nephrology
- Laboratory Investigation
- Mammalian Genome
- Molecular Basis of Disease
- Molecular Therapy
- Nature
- Nature Genetics
- Nature Reviews Rheumatology
- Plos Genetics
- Plos One
- Proceedings of the National Academy of Sciences
- Trends in Molecular Medicine

Miscellaneous

- Chair of the “Immunopathogenesis of Systemic Lupus” Block Symposium at the AAI annual meeting - EB’98 .
- Chair of the “Genetics of autoimmunity” Block Symposium at the AAI annual meeting, Denver, Co, May 8, 2003.
- Meeting Co-Organizer: 9th International Workshop on Autoantibodies and Autoimmunity, Gainesville, FL, Sept. 29- Oct. 2 , 2005.
- Chair of the concurrent session: Epigenetics and Lupus. 9th International Congress on Systemic Lupus Erythematosus. Vancouver, Canada, June 25, 2010
- Chair of the plenary session: SLE: of mice and women. 9th International Congress on Systemic Lupus Erythematosus. Vancouver, Canada, June 27, 2010.
- Chair of the “Genetics of autoimmune diseases” block-symposium, AAI meeting, Boston, MA, May 7, 2012.
- Co-chair for the Systemic Lupus Erythematosus - Animal Models abstract selection, ACR meeting, San Diego CA, October 25-30, 2013.

Requested evaluation for promotion and tenure at:

- Imperial College, London UK
- University of North Carolina, Department of Immunology and Microbiology
- University of Nebraska, Department of Genetics, Cell Biology and Anatomy, (2 reviews)
- Oklahoma Medical Research Foundation
- Tel Aviv University, Department of Clinical Microbiology and Immunology
- Temple University, Department of Medicine, Division of Rheumatology.