## **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

Vice Chair for Research and Academic Affairs, Department of Pathology, Immunology, and Laboratory Medicine University of Florida

**Business Address:**

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University of Florida

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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 2007-2017
* Member of the Center for Immunology and Transplantation, 2007-date.
* Mary and Ryan Whisenant Family Chair in Experimental Pathology, December 2008 - date
* Advisory Board Member of the Center for Mucosal Immunology and Inflammation, 2012-date.
* Vice Chair for Research and Academic Affairs, Department of Pathology, Immunology, and Laboratory Medicine, 2017-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
* UF Term Professorship, 2017-2020.
* Appointed to the AAI Publication committee 2019-2021.
* Elected Vice-President of the International Association for Comparative Medicine, 2019.

**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](http://my.research.ufl.edu/Applications/FundingOpportunities/ArticleDetail.aspx?id=28850) Program Committee Member, Summer 2012.
* UF COM Research Leadership committee: 2012-present.
* Opportunity Fund grant review, March 2013.
* Center for Mucosal Immunology and Inflammation retreat planning committee. 2013-present.
* [Pew Scholars Program in the Biomedical Sciences](http://my.research.ufl.edu/Applications/FundingOpportunities/ArticleDetail.aspx?id=28850) Program Committee Member, June 2014.
* UF Advanced Leadership program graduate, 2014
* UF Research Foundation COM selection committee
* Medical Guild MSI competition judge
* COM WIMS leadership group 2016-2017.

**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 - present.
* Member, Department of Pathology, Immunology, and Laboratory Medicine, Clinical Assistant Professor, Fall 2014.
* Member, Department of Pathology, Immunology, and Laboratory Medicine, Clinical Assistant Professor, Spring 2015.
* Member, Department of Pathology, Immunology, and Laboratory Medicine, Clinical Assistant Professor, Spring 2016.
* Chair, Department of Pathology, Immunology, and Laboratory Medicine, senior Physician Scientist, 2016-2018.
* Chair, Department of Pathology, Immunology, and Laboratory Medicine, senior Viral Immunologist, 2017-2018.
* Department of Pathology, Immunology, and Laboratory Medicine, Research Assistant Scientists
	+ Chair: 7
	+ Member: 3
* Member, COM, Department of Medicine Chair, 2018.

**PROFESSIONAL MEMBERSHIPS:**

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

**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.
* Welcome 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.
* Welcome 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.
* NIH HAI ad hoc study section member, June 6-7, 2014 (phone review)
* NIH ZRG1 GGG Q 50 Review Panel, July 17, 2014.
* NIH ZRG1 GGG Q 51 Review Panel, August 22, 2014
* Alliance for Lupus Research TIL grants, November 5, 2014.
* Dept. of Veterans Affairs 2015/01 IMMA 1 - Immunology and Dermatology A, December 3, 2014.
* NIH HAI ad hoc study section member, February 5-6, 2015.
* Roche Fund for research in personalized medicine, mail review, April 2015.
* NIH NIAID Program Project study section 2014/01 ZAI1 LGR-I (J1), June 15, 2015
* NIH IMM-S90S co-chair, October 29, 2015.
* NIH-NIAID PO1, January 28, 2016.
* NIH-NIAMS P30 RDCC Review, March 29-30, 2016.
* NIH-NIAID P50 Centers of Research Translation, April 8, 2016.
* NIH ACTS ad hoc study section member, June 14-15, 2016.
* NIH-NIAID member conflict SEP, October 28, 2016.
* NIH- NIAID PO1, January 25-26, 2017.
* French National Research Agency external reviewer 2017
* Alliance for Lupus Research TIL grants, May 24, 2017.
* NIH-NIAMS AMS review, June 22-23, 2017.
* NIH ACTS ad hoc study section member, March 10-11, 2018.
* NIH-NIAMS P30 RDCC Review, March 14-15, 2018.
* Lupus Research Alliance, TIL and NRG review, May 24-25, 2018.
* NIH-NIAMS AMS review, June 21-22, 2018.
* NIH-NIAMS ACE review December 3-4, 2018.
* Portuguese Marathon Lupus Panel
* NIH HAI ad hoc study section member, February 7-8, 2019.
* UF opportunity Funds April 29, 2019
* NIH-NIAMS AMS review, June 27-28, 2019
* NIH Special Emphasis Panel, November 20, 2019
* NIH NIAID Board of Scientific Counselors, ad hoc member, December 9-11, 2019.

**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 Vice-Chair for research and Academic Affairs Overseeing a > $18M budget in extra-mural funding, 22 tenure-track and 16 research track faculty members with basic research assignments, as well as the professional development portfolio for the entire Department.

 **AREAS OF SPECIALIZATION -**

* + - Immunogenetics
		- Animal models of autoimmune diseases (mostly SLE)
		- Genetics of complex traits
		- Lupus pathogenesis
		- Immunometabolism
		- Microbiome in autoimmune diseases

**CURRENT GRANT SUPPORT:**

T32 DK108736 Atkinson (PI) 09/01/17-08/31/22

NIH

Interdisciplinary Graduate Program in Type 1 Diabetes and Biomedical Engineering

The goal of this proposal is to propose that a training program designed for co-mentoring of pre-doctoral students in an environment and culture providing strong interdisciplinary support for bioengineering and type 1 diabetes, will result in a new generation of researchers poised to contribute to a fuller understanding of, and new technologies for disease management, prevention and reversal.

Role: Mentor

R01AI143313-01 Morel (MPI) 01/15/19– 01/14/23

NIH

Gut dysbiosis and tryptophan metabolism in lupus

The goals of this proposal are to use a mouse model as well as samples collected from lupus patients to test the hypothesis that gut bacteria contribute to lupus by their utilization of tryptophan, an essential amino acid whose derivative metabolites activate immune cells.

R01 AI128901 Morel (PI) 09/01/16-08/31/21

NIH/NIAID

Targeting follicular helper CD4 T cells in SLE

The goal of the proposal is to prove the hypothesis that the elimination of lupus Tfh cells through glucose inhibition represents a safe therapeutic approach. We propose to test this hypothesis by characterizing lupus Tfh cells relative to Tfh cells induced by immunization in mouse models and cells obtained from lupus patients.

Role: PI

R01 AI045050-21 Morel (PI) 05/01/18-04/30/23

National Institutes of Health

Characterization of SLE-susceptibility loci on mouse chromosome 1

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 and there is no overlap with the current proposal.

Role: PI

R21 AR070660 Morel (PI) 05/13/16-04/30/18

NIH/NIAMS

Genetic Regulation of Mesenchymal Stem Cell Defects in Lupus

This proposal is designed to test the hypothesis that MSC defects induced by this gene contribute to lupus by promoting inflammation instead of immunosuppression, using a mouse model of lupus in novel experimental settings. It has great potentials to understand the genetic basis of abnormal MSC functions in lupus and help predict in which lupus patients cell therapy could be the most successful.

Role: PI

416522 Morel (PI) 09/01/16-08/31/19

ALR

Targeting follicular helper CD4 T cells in SLE

We propose the hypothesis that the elimination of lupus Tfh cells through glucose inhibition represents a safe therapeutic approach. We propose to test this hypothesis by characterizing lupus Tfh cells relative to Tfh cells induced by immunization in mouse models and cells obtained from lupus patients.

Role: PI

DRPD-ROF2017 Toth (PI) 06/01/17-05/31/19

UF Office of Research

Immune evasion mechanisms during oral infection by an oncogenic herpesvirus

The goals of this project are to characterize the immune response pathways inhibited by KSHV in human oral epithelial cells and to identify the viral genes responsible for this inhibition using a multidisciplinary approach combining expertise in KSHV biology (Toth), immunology (Morel) and genomic analysis (Papp)

Role: Co-Investigator

R01 HL133191 Herzog (PI)                      05/01/17-04/30/22

National Institutes of Health

Oral Tolerance of Hemophilia

Specific Aim 1 Develop the next generation of edible transplastomic plants expressing FVIII antigen,ovalbumin, or IL-10 fused to different transmucosal carriers, using cutting-edge chloroplast genetic engineering tools. Specific Aim 2 Continue to define the mechanism of oral tolerance induction/immune regulation, in part through use of a model antigen. Specific Aim 3 Further strengthen oral tolerance by enhancing immune regulation or manipulating T cell metabolism, thereby also providing further insights into the tolerance mechanism.

Role: Co-Investigator

**COMPLETED GRANT SUPPORT:**

R21 AI122338 Morel (PI) 01/04/16-12/31/18

NIH

Gut dysbiosis induces lupus

The project proposes to study how gut microbes contribute to disease in a mouse model of lupus. We have obtained preliminary data showing that mice with lupus have distinct gut microbes, which are sufficient to induce disease manifestation when transferred in healthy mice.

Role: PI

Preparatory Grant University of Florida Morel (PI) 05/15/15-05/14/17

Therapeutic Targeting of Immune Metabolism

The goal of this preparatory program were to develop the infrastructure and to generate critical preliminary data to allow our team to submit competitive program project grants (PPG) to the NIH and DOD within two years on the emerging field of immune metabolism.

Role: PI

296550 Morel (PI) 02/01/14-01/31/17

Alliance for Lupus Res.

High through-put screening to repurpose drugs for lupus therapeutics proposal

The overall goal of this proposal was to accelerate the speed by which new drugs with the potential to prevent and treat lupus are brought into the clinic.

Role: PI

Grifols, Inc. Song (PI) 01/23/2015-01/22/2016

The Protective Effect of Prolastin-C for the Treatment of Lupus

The overall goal of this proposal to test the effects and molecular mechanisms of Prolastin C on dendritic cells, and to evaluate the therapeutic effects of Prolastin C on lupus models. The ultimate goal of this study is to develop a novel therapy and pave the way for the treatment of lupus patients with Prolastin C.

Role: Co-Investigator

2R01 AI058150 02/10/2010-01/31/2015 3.6 calendar months

National Institutes of Health 3

**Role:** Principal Investigator

**Title:** Mechanisms of B cell Developmental defect in murine lupus

**Overall Goals:** 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.

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

Alliance for Lupus Research $184,681

**Role:** Principal Investigator

**Title:** CD4 T cell metabolism in SLE: Characterization and target identification

**Overall Goals:** 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.

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

UF DSR $44,000

**Role:** Co-Investigator

Role of Pbx1 regulation of MSC function in autoimmunity

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.

R21 AR06681007/01/14-06/30/14 1.2 calendar months

NIH/NIAMS

**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.

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

**Role:** Principal Investigator

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

**Overall Goals:** 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

**Role:** Mentor

**Title:** Mechanisms of B cell Developmental defect in murine lupus

**Overall Goals:** Fellowship to support graduate student Allison Sang

2R01 AI045050 Morel (PI) 05/01/08 to 04/30/13 3 calendar months

NIH/NIAID $291,068

**Role:** Principal Investigator

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

**Overall Goals:** 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.

RO1- AR44731 W. Reeves (PI) 9/26/06 to 08/31/11 0.6 Calendar months

NIH/NIAID $209,347

**Role:** Co-Principal Investigator

**Title:** Pathogenesis of Autoantibodies in Pristane-Induced Lupus

**Overall Goals:** 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 2/1/08 TO 1/31/10 0.96 calendar months

K. Elkon, Univ. Washington, (PI) $500,000

**Role:** Co-Investigator

**Title:** Lysis of Immunostimulatory nucleoproteins in SLE Morel (PI)

**Overall Goals:** 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.

TIL 113286*:* Morel (PI) 2/1/09 to 1/31/11 1.20 calendar months

Alliance for Lupus Research $206,027

**Role:** Principal Investigator

**Title:** Retinoic acid regulation of T cell homeostasis in Lupus

**Overall Goals:** 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 01/01/05-12/31/08 0.60 calendar months

NIH/NIAMS $300,000

**Role:** Co-Investigator

**Title:** Identifying Gene Interactions in SLE by Mixed Chimeras**.**

Rigel Pharmaceuticals 2007 0.24 calendar months

 $50,000

**Role:** Principal Investigator

**Title:** The B6.TC model to investigate to the mechanisms Syk inhibitor protection in lupus.

PO1 AI39824-02 (Wakeland) 4/1/96 - 3/31/01 0.60 calendar months

NIH/NIAMS $2,810,084

**Role:** Co-Investigator

**Title:** Genetic dissection of SLE pathogenesis. Project 1. Genetic dissection of lupus susceptibility using congenic mouse strains.

**Overall Goals:** 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.

PO1 AI39824-02 (Morel) 4/96 - 3/31/01 0.60 calendar months

NIH/NIAMS $2,810,084

**Role:** Principal Investigator

**Title:** Program Projects on Autoimmunity; Project 2. Positional cloning of the SLE genes Sle1, Sle2, and Sle3.

**Overall Goals:** 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.

NIMH 59959 (Lenox, Robert H.) 07/1/98 - 6/31/01 0.60 calendar months

**Role**: Co-investigator $747,636

**Title:** Neurobiology of MARCKS: A Macs Mutant Model

**Overall Goals:** This grant proposes to characterize the genetic basis for variations in the expression of Macs.

NIH RFA HL-97-010 (W. Castleman) 0.60 calendar months

**Role:** Co-Investigator $1,125,000

**Title:** Genes controlling virus induced asthma in rats

RO1-NS38179-01 (J. Petitto) 8/1/98 to 7/31/03 1.20 calendar months

National Institutes of Health $784,107

**Role:** Co-investigator

**Title:** IL-2 gene deletion: Neurodevelopment and behavior

**Overall Goals:** 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.

R21-ES10277-01 (L. Morel) 10/1/99 to 9/30/02 1.80 calendar months

National Institutes of Health $300,000

 RFA ES-99-003 Environment/Infection/Gene Interaction in Autoimmune Diseases

**Role:** Principal Investigator

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

**Overall Goals:** 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.

RO1-AI45050-01 (L. Morel) 3/1/00 to 2/28/03 3.60 calendar months

National Institutes of Health $539,089

**Role:** Principal Investigator

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

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

RO1-AI43454-01 (E. Sobel) 3/1/00 to 2/28/04 1.80 calendar months

National Institutes of Health $951,652

**Role:** Co-Principal Investigator

**Title:** Functional characterization of loci modifying SLE renal disease

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

PO1-AI39824 (E. K. Wakelan, PD) 6/1/00 to 5/31/04 1.56 calendar months

National Institutes of Health $575,369

**Role:** Principal Investigator of Project 3

**Title:** Genetic dissection of SLE pathogenesis; Project 3: Characterization of SLE-susceptibility loci on mouse chromosome 4

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

RPG LBC-1002057/1/01 to 6/31/02 1.80 calendar months

American Cancer Society $248,000

**Role:** Principal Investigator

**Title:** Genetic and functional characterizationof B cell lymphomas in the NZM mouse

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

Arthritis Foundation 6/1/02 to 5/31/05 0.24 calendar months

Joseph Craft, M.D., Ph.D. Yale School of Medicine P.I. $90,000

**Role:** Co-Investigator

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

1PO1 A142288-0, Atkinson (PI) 2001-2006 0.60 calendar months

NIH/NIDDK/NIAI

## **Role:** Co-investigator

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

Core B Director Clare-Salzler

**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.

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11. Erin Garrigan,MS,MD1,2,3 , Nicole S. Belkin, MD1,2,3,Federica Seydel1,2,3 , Zhao Han, MS1 Jamal Carter,MD1,3, Marcia McDuffie, MD4, Laurence Morel, PhD1, Ammon B. Peck, PhD1, Michael Clare-Salzler, MD1, Mark Atkinson, PhD1, Clive Wasserfall, MS1, Abdoreza Davoodi-Semiromi, PhD1,3, Jingda Shi, PhD/MD3,5, Carrie-Haskell-Luevano, PhD3,6, Li-Jung Yang,MD1, John Alexander1,3, Ramona Bober3,7, Autumn Cdebaca3,7,Teresa Piliant7, Corin Riggs7,8, Matthew Amick1,8, and Sally A. Litherland. Csf2 & Ptgs2 Epigenetic Dysregulation in Diabetes Prone Bi-Congenic B6.NODC11bxC1tb Mice. Genetics and Epigenetics. 2015 Oct 11;7:5-17. doi: 10.4137/GEG.S29696
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34. Shirley JL, Keeler GD, Sherman A, Zolotukhin I, Markusic DM, Hoffman BE, **Morel LM**, Wallet MA, Terhorst C, Herzog. RW. Type I Interferon Sensing by Conventional Dendritic Cells and CD4+ T Help are both Requisite for Cross-priming of AAV Capsid-specific CD8+ T Cells. Mol Ther. 2019 Nov 15. pii: S1525-0016(19)30507-6. doi: 10.1016/j.ymthe.2019.11.011. [Epub ahead of print] PMID:31780366.
35. Choi SC, Brown J, Gong MH, Michailidis G, Garrett T, Mohamadzadeh M, **Morel L.** Microbiota-associated tryptophan catabolism induces autoimmune activation in a mouse model of lupus. Sci. Trans. Med., in revision.
36. Fu C, LuY, WilliamsMA, BrantlyML, VentetuoloCE, **MorelL**, MehradB, ScottEW, BryantAJ.Emergency myelopoiesis contributes to immune cell exhaustion and pulmonary vascular remodeling. British J Pharmacol., 2019 Dec 3. doi: 10.1111/bph.14945. [Epub ahead of print] PMID:31793661
37. Ahmed S. Elshikha1,3, Georges Abboud2, Lonneke Erikelens1, Yuanqing Lu1, Mong-Jen Chen1, Ye Yuan1, Godelieva Ponjee1, Leilani Zeumer2, Minoru Satoh4, Laurence Morel2 and Sihong Song1. Alpha-1-Antitrypsin Ameliorates Pristane Induced Diffuse Alveolar Hemorrhage in Mice. J. Clin. Med. ug 29;8(9). pii: E1341. doi: 10.3390/jcm8091341. PMID:31470606
38. Sun,F.,Wang, H., Liu, Z.; Geng, S.; Wang, H.; Wang, X.; Li, T., Shuang Ye, S., Morel, L., Teng, X., Wan, W., and Lu, L. Metformin in systemic lupus erythematosus, The Lancet, 2020. Accepted 1/6/20.
39. Titov AA, Perry DJ, Schultz AR, Brusko TM, **Morel L**.. Immunophenotyping reveals two distinct SLE subgroups based on T cell activation level in an ethnically mixed cohort. Arthritis Rheum. *In preparation.*

Invited reviews

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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:E241, 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. PMCID: PMC3042628.
15. Perry, D, Peck, A.B., Carcamo, W.C, **Morel, L.,** and Nguyen, C.Q. The new frontiers of TH17 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. PMCID:PMC Journal In Process.
17. **Morel, L.** Mapping Lupus Susceptibility Genes in the NZM2410 mouse model. Adv. Immunol., 115:113-39, **2012**; PMID:22608257, PMCID: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](http://www.ncbi.nlm.nih.gov/pubmed/22137436), 105: 321-370, 2012.PMCID: 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]
20. Xu, Y., Zeumer, L., **Reeves,** W.H., **Morel,** L. [Induced murine models of systemic lupus erythematosus.](http://www.ncbi.nlm.nih.gov/pubmed/24497358) Methods Mol Biol. 2014;1134:103-30. PMCID:PMC Journal In Process
21. Sivakumar, R., Atkinson, M., Mathews, C.E. and **Morel, L.** G-CSF: A friend or foe?Immunome research, 2015 11:S2. http://dx.doi.org/10.4172/1745-7580.S2.007
22. Doerfler, P., Nayak, S., Corti, M., **Morel, L.,** Herzog, R.W., and Byrne, B.J. Targeted Approaches to Induce Immune Tolerance for Pompe Disease Therapy. Molecular Therapy Methods and Clinical Development. 2016, Jan 27;3:15053. doi: 10.1038/mtm.2015.53.
23. Li, W., Sivakumar, R., Titov. A.A., Choi, S.-C., and **Morel, L**. Metabolic factors that contribute to lupus pathogenesis. Crit. Rev. Immunol., 2016, 36:75-98. DOI: [10.1615/CritRevImmunol.2016017164](https://doi.org/10.1615/CritRevImmunol.2016017164). PMID:27480903.PMCID:PMC5278665.
24. Choi, S.C., Titov. A.A., Sivakumar, R., Li, W., and **Morel, L**. Immune metabolism in systemic lupus erythematosus. Curr. Rheum. Rep., 2016, 18: 66. DOI: 10.1007/s11926-016-0615-7. PMID:27709413.
25. Choi, S.C., and **Morel, L**. B cell contribution of the CD4+ T cell inflammatory phenotypes in lupus. Autoimmunity, 2017; 50(1): 37–41. DOI: 10.1080/08916934.2017.1280028.
26. Morel, L. Immunometabolism in SLE. Nat. Rev. Rheumatol. May;13(5):280-290. doi: 10.1038/nrrheum.**2017**.43. Epub **2017** Mar 31.
27. Li, W., Titov. A. A., and **Morel, L**. Mouse models of systemic lupus erythematosus. Curr. Opin. Rheumatol. **2017** Sep;29(5):434-441. doi: 10.1097/BOR.0000000000000412. PMID:28537986. PMCID:[PMC5815391](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5815391/).
28. Teng, X., Li, W., Cornaby, C., **Morel, L**. Immune cell metabolism in autoimmunity. Clin. Exp. Immunol., First published: 15 February 2019. doi: 10.1111/cei.13277.
29. Teng, X., Cornaby, C., Li, W., **Morel, L**. 2019. Metabolic regulation of pathogenic autoimmunity. Therapeutic targeting**.** Cur. Opin. Immunol. 61:10-16. doi: 10.1016/j.coi.2019.07.001. PMID: 31422315.
30. Crispin JC and **Morel L**. Editorial: Mechanisms by which SLE-Associated Genetic Variants Contribute to SLE Pathogenesis. Autoimmunity and Inflammation section, Frontiers in Immunology, 2019,10:2808. doi: 10.3389/fimmu.2019.02808. eCollection 2019. PMID:31849982; PMCID:[PMC6901671](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6901671/)
31. Choi, S.C., **Morel, L**. Immune metabolism regulation of the germinal center response. Exp. Mol. Med., 2020In Press
32. Immune metabolism regulation of lupus. Immunological Rev. 2020

**Webinar**

Inhibition of glucose metabolism selectively targets autoreactive follicular helper T cellsNanostring webinar, Aug 28, 2019

[https://www.nanostring.com/company/events-archive/inhibition-glucose-metabolism-selectively-targets-autoreactive-follicular-helper-t-cells](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.nanostring.com_company_events-2Darchive_inhibition-2Dglucose-2Dmetabolism-2Dselectively-2Dtargets-2Dautoreactive-2Dfollicular-2Dhelper-2Dt-2Dcells&d=DwMGaQ&c=sJ6xIWYx-zLMB3EPkvcnVg&r=jrEEuLD85kK3GFBIAN6CZ0pxS2c4_ztW-I6lKpxLqxA&m=HZnrkvHfpKf80RNpDxkrWtr-E9HiE211VFrj-84sdNE&s=kkBMMPfwqsCOr9LSsFO0JOwFRejT41O735x9xxIxB00&e=)

**Patents**

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.

Morel, L. and Yin, Y. TREATMENT OF LUPUS USING METABOLIC MODULATORS, U.S. Provisional Application No.: 62/107,160, January 23, 2015

**TEACHING EXPERIENCE**

* GMS 6140: 2-4 lectures and 1 TBL lab, Spring 2013-present
* GMS6921 Immunology advanced concentration Journal club: Spring 2001-present. Course Director.
* GMS 6337: [B Cell Development in Health and Disease](file:///W%3A%5Cwww.med.ufl.edu%5CIDP%5Ccourses%5CSyllabus%5CGMS6905-BCellDevel-Sp2007.doc) 2007-present Course Director.
* GMS 5905: Special Topics:  Immunology & Microbiology Grant Writing
	+ 2009. Course Director.
	+ 2016. Co-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](http://idp.med.ufl.edu/courses/Syllabus/GMS6381-SpTopPathKidneySp06.html):
	+ 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.

Mentorship:

* 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, 2010-2014.
* Ying Li Zheng, Graduate student, 2010-2014.
* Ramya Sivakumar, Graduate student, 2012-2016.
* Wei Li, Pekin University PhD student, 2014-2016.
* Anton Titov, Graduate student, 2015-2019.
* Josephine Brown, Graduate student: 2017-present.
* Tracoya Roach, Graduate student: 2017-present.
* 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- December 2017.
* Yiming Yin, PhD, Postdoctoral fellow, May 2014-March 2015.
* Georges Abboud, PhD, Postdoctoral fellow, January 2017 – December 2017.
* Wei Li, PhD. Postdoctoral fellow, March 2017 – present.
* Caleb Cornaby, PhD. Postdoctoral fellow, March 2018 – June 2019.
* Haiting Wang, PhD, visiting Postdoctoral fellow from Shanghai JiaoTong University School of Medicine, March 2018 – August 2019.
* Sophie Zang, Postdoctoral fellow, October 2018 – present
* Ahmed Elshika, Postdoctoral fellow, September 2019 – present
* Minghao Gong, Postdoctoral fellow, October 2019 – present
* Zhiwei Xu, Ph.D. Research Assistant Professor, KO1 award recipient 2009-2014.
* Kristiana Fredenburg, M.D., Ph.D., Assistant Professor, UF CTSI KL2 Scholar Multidisciplinary Program recipient, 2017-2019.
* Seung-Chul Choi, Ph.D., Research Assistant Scientist, 2018-
* Georges Abboud, Ph.D., Research Assistant Scientist, 2018-
* Xiang Yu (Shirley) Teng, MD, Associate Professor, Visiting scientist from Shanghai JiaoTong University School of Medicine, November 2017 – November 2019.
* Andrew Bryant, MD, Assistant Professor in the Pulmonary Division (mentoring with immunological aspects of his research)

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, 2009-2014.
24. Shindu Arivazhagan, College of Medicine Inter Disciplinary Graduate Program, 2009-2014.
25. Yuan Xu, College of Medicine Inter Disciplinary Graduate Program, 2009-2014.
26. Judit Cserny, College of Medicine Inter Disciplinary Graduate Program 2011-2017.
27. Christina Graves, College of Medicine Inter Disciplinary Graduate Program 2012-2016
28. Robert Whitener, College of Medicine Inter Disciplinary Graduate Program 2013-2016
29. Pritesh Desai, College of Medicine Inter Disciplinary Graduate Program 2013-2017.
30. Britney Newby, UF MD-PhD program, 2014-2017.
31. McEnzie Williams, College of Medicine Inter Disciplinary Graduate Program 2015-
32. Olivia Bailey, College of Medicine Inter Disciplinary Graduate Program 2015-
33. Jamie Shirley, College of Medicine Inter Disciplinary Graduate Program 2015-2019
34. Melanie Shapiro, College of Medicine Inter Disciplinary Graduate Program 2016-
35. Ashley Zuniga, College of Medicine Inter Disciplinary Graduate Program 2016-
36. Minghao Gong, Department of Infectious Diseases, College of Veterinary Medicine 2016-2019
37. Niousha Ahmari, College of Medicine Inter Disciplinary Graduate Program 2017-2018
38. Sabrina Freeman, Biomedical Engineering PhD program, 2017-
39. Jessica Stanfield, Masters student, 2016-2017.
40. Ahmed Elshikha, College of Pharmacy PhD program, 2016-2019
41. Gavin Golas, College of Medicine Inter Disciplinary Graduate Program 2017-2019.
42. Jatin Sharma, Department of Microbiology and Cell Science, 2018-
43. Shanan Emmanuel, College of Medicine Inter Disciplinary Graduate Program 2019-
44. Mesfin Gobena,College of Medicine Inter Disciplinary Graduate Program 2019-
45. Leeana Peters, College of Medicine Inter Disciplinary Graduate Program 2019-
46. Addelynn Sagadevan, Genetic Institute Graduate Program 2019-

PhD thesis external examiner:

* Justin Boucher, Department of Microbiology and Immunology, University of Miami, Miami FL, July 19, 2016
* Elizabeth Adkins, Tufts University and the Jackson Laboratory, Bar Harbor, ME, August 5, 2016.
* Yuriy Baglaenko, Krembil Research Institute, University Health Network, Toronto, CA, October 7, 2016.

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.
* (High-School Student)
* Kenji Kayes, UF
* Aaron Brice, UF
* Elsa Santillana, UF
* Stephanie Montenegro, UF
* Yunfai Ng, UF
* Mohamad Zadeh, UF
* Hope Summers, SF2UF
* Brian Robusto, UF University Scholar.
* Lucas James
* Nikita Kostrubsky
* Ivey Bush, SF2UF
* Claudia Zamora
* Valentina Testa
* Mohamed Elashry
* Olivia Charland

Student Science Training Program (High School Seniors)

* Shrivani Parick, (summer 2008)
* Kate Bautista (summer 2011)
* Sidney Korsunky (summer 2014)

Advisory boards

* External Advisory Board Member, Center for Childhood Obesity Prevention, Arkansas Children’s Research Institute, 2019-2024.
* UF pediatric rheumatology fellowship training program: non-clinical advisor, 2018-present.

**INVITED TALKS**

1. Arthritis Foundation, North Florida Chapter: “Genetic analysis of SLE in a mouse model”. March 29, 1997, Gainesville, Fl.
2. 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.
3. Aventis Pharmaceuticals: “Genetics of SLE in a mouse model” Bridgewater, NJ, January 22, 2001.
4. 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.
5. Yale Immunobiology Seminar SeriesYale University, “Functional and Genetic Analysis of the *Sle1* Locus" October 18, 2001
6. 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

1. Toronto Western Research Institute, Toronto, Canada “Functional analysis of the Sle1 locus and its interactions with other SLE-susceptibility loci” February 19, 2002.
2. Dartmouth University, Lebanon, NH, “Genetic analysis of lupus susceptibility and sepsis resistance in the NZM2410 mouse” May 6, 2002.
3. 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

1. 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
2. Genetic and Translational Medicine Center, University of Alabama at Birmingham, “Genetic analysis of lupus susceptibility in a mouse model”, March 17, 2003.
3. Workshop on the Genetics and Mechanisms of Autoimmunity, “Using BCR transgenics in the NZM model” Princeton, NJ; March 21-23
4. Workshop on Collaborative Approaches to Genetics of Rheumatic Diseases, NIH/NIAMS, Bethesda, MD, June 24-25, 2003.
5. University of Virginia SCOR on SLE symposium, “Genetics of SLE in the NZM2410 model”, Charlottesville, VA, Oct. 1-2, 2004.
6. Department of Oral Biology, College of Dentistry, University of Florida, “The hunt of lupus genes”, March 14, 2005.
7. Mayo Clinic, Department of Immunology “Genetic analysis of lupus susceptibility in a mouse model”, Rochester MN, May 19, 2005.
8. Aegean Conference: Autoimmunity: Mechanisms and Novel Treatments” Santorini, Greece, September 25-30, 2005.
9. NIH-NIAMS, Autoimmunity Branch: Genetics of B cell contribution to SLE in a murine model, February 15, 2006.
10. Medical College of Georgia, Center for Biotechnology and Genomic Medicine: “Genetic analysis of lupus susceptibility in a mouse model”, Augusta, GA, March 6, 2006.
11. Jacksonville University, Science and Engineering Lecture Series: “Genetic analysis of lupus using a mouse model”, Jacksonville, Fl, March 29, 2006.
12. University of Nebraska, Department of Genetics, Cell Biology and Anatomy: “Using congenic analysis to find lupus susceptibility genes”, Omaha, NE, May 5, 2006.
13. 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.
14. University of Alabama at Birmingham "Genetics of analysis of autoreactive B cells in a murine model of lupus", Birmingham, Al., January 9, 2007.
15. Harvard Medical School, Division of Immunology "Genetic and functional analysis of the Sle1a lupus susceptibility locus", Boston, MA, February 13, 2007.
16. Oklahoma Medical Research Foundation "Genetic determination of T cell autoreactivity in a mouse model of lupus", Oklahoma City, OK, May 31, 2007.
17. Harvard Institutes of Medicine First Lupus Symposium: "The Sle1c murine lupus susceptibility locus", Boston, MA, Sept. 7, 2007.
18. University of Florida Genetics Institute: “Genetic analysis of lupus using a mouse model”, Gainesville, Fl, Oct. 18, 2007.
19. 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.
20. Thomas Jefferson University, Department of Microbiology and Immunology: "Genetic analysis of systemic lupus erythematosus in a mouse model", Philadelphia, PA, Feb. 28, 2008.
21. Temple University, Department of Microbiology and Immunology: "Genetic analysis of systemic lupus erythematosus in a mouse model", Philadelphia, PA, Feb. 29, 2008.
22. 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.
23. UTSW, Department of Immunology seminars series: “The Sle1 SLE susceptibility locus”. Dallas, TX, December 10, 2008.
24. 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
25. UAB Division of Rheumatology and Clinical Medicine: “Using a Mouse Model to Dissect Lupus Pathogenesis”, Birmingham, AL, July 15, 2009.
26. UF Department of Microbiology and Cell Science: “Genetic determination of autoreactive T cells in a mouse model of lupus”. Gainesville, FL, November 30, 2009.
27. Medical College of Georgia Department of Medicine: “Genetic of lupus: updates from the NZM2410 model”, Augusta, GA, April 19, 2010.
28. 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.
29. Alliance for Lupus Research Meeting: “Retinoic acid regulation of T cell homeostasis in lupus”, New York, May 17, 2010.
30. Feinstein Institute’s Center for Autoimmune Diseases: “Genetic of lupus: lessons learned from the *Sle1* locus”, Manhassett, NY, May 18, 2010.
31. 9th International Congress on Systemic Lupus Erythematosus: “Genetics of lupus: what did we learned from the mouse?” Vancouver, Canada, June 24-27, 2010.
32. 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.
33. Carter Immunology Center University of Virginia, “Genetic dissection of the NZM2410 mouse model of lupus”. September 19, 2011.
34. Department of Immunology, Lerner Research Institute, Cleveland Clinic, “Dissection of the murine *Sle1* lupus susceptibility locus”. November 16, 2011.
35. Pfizer Lupus mini-symposium, December 2, 2011, Cambridge, MA.
36. Merck Invited speaker, March 9, 2012, Cambridge, MA.
37. 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.
38. 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
39. Department of Rheumatology, Capital Medical University. “Murine models of SLE”, Beijing, China, December 14, 2012.
40. Alliance for Lupus Research 2013 Symposium: “T cell metabolism defects in lupus” New York, NY, June 3-4, 2013.
41. UAB 2013 Spring Immunology Symposium, “T cell metabolism defects in lupus”. Birmingham, AL, June 22-23, 2013.
42. 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.
43. 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.
44. University of Florida Center for Inflammation & Mucosal Immunology Symposium, “CD4+ T Cell Metabolism in SLE”, Gainesville, FL, October 19, 2013.
45. 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.
46. The Jackson Laboratory “Metabolic inhibitors as a treatment for lupus in the B6.Sle1.Sle2.Sle3 mouse model”, Bar Harbor, ME, January 20, 2014.
47. 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.
48. UF-HHMI Science for Life seminar: “Pathogenesis of Systemic Lupus Erythematosus” April 10, 2014.
49. UF MD-PhD Training Program / Monthly Educational Dinner “Genetics of Systemic Lupus Erythematosus”. April 16, 2014.
50. Feinstein Institute for Medical Research. “Genetics of B1a cell expansion in the NZM2410 mouse model of lupus erythematosus”. May 7, 2014
51. Alliance for Lupus Research 2014 Symposium: “T cell metabolism defects as target in lupus” New York, NY, May 8-9, 2014.
52. Merinoff World Congress 2014: B-1 Cell Development and Function. “Genetics of B1a cell expansion in the NZM2410 mouse model of lupus erythematosus”. Tarrytown, NY, **June 16-19th, 2014.**
53. **Biogen: “**The B6.NZM2410.Sle1.Sle2.Sle3 mouse model of SLE”. Boston, Ma, January 20, 2015.
54. UF Department of Medicine Division of Rheumatology Ground Rounds: “Normalization of CD4+ T Cell Metabolism Reverses Lupus”, March 13, 2015.
55. Lupus Foundation of Florida: Living Well with Lupus workshop: “Immune metabolism and lupus”. Gainesville, Fl, March 21, 2015.
56. 3rd Metabolism Mini Symposium: “Immune metabolism and lupus”.Vesalius Research Center, VIB KU Leuven, Belgium, May 7, 2015.
57. Immunopharmacology – Vaccipharmacia 2015: “Immune metabolism and lupus”. Varadero Beach, Cuba, June 14-19, 2015.
58. Forum for Discovery 15th Annual Scientific conference: “CD4 T cell metabolism in SLE: Characterization and target identification”, New York, NY, October 19-20, 2015.
59. UF Department of Medicine Division of Endocrinology Ground Rounds” Metformin as a regulator of immune cell metabolism”, November 4, 2015.
60. American College of Rheumatology annual meeting: “Therapeutic targeting of CD4+ T Cell Metabolism in Murine Models of Lupus”, San Francisco, CA, November 8, 2015.
61. Keystone Symposium: Immunometabolism in Immune Function and Inflammatory Disease: Targeting CD4+ T cell metabolism in lupus, Feb, 21-25, 2016.
62. Seminars in Oral Biology, UF College of Dentistry: Roads less traveled to understand lupus: immunometabolism, microbiome and mesenchymal stem cells, April 18, 2016.
63. ADA 76th meeting, Immune Cell Metabolic Demand Symposium. “T cell metabolism in autoimmunity**”** New Orleans, June 7, 2016.
64. CIMI minisymposium: “Gut dysbiosis in lupus”. Gainesville, FL, June 28, 2016.
65. Department of Microbiology and Immunology, University of Miami School of Medicine: “Immunometabolism defects in systemic lupus erythematosus: mechanisms and therapeutic opportunities” Miami, Fl, July 19, 2016.
66. The Jackson Laboratory “Immunometabolism defects in systemic lupus erythematosus: mechanisms and therapeutic opportunities”, Bar Harbor, ME, August 4, 2016.
67. 6th International Conference on B Cells and Autoimmunity. "B cells induce inflammatory T cell differentiation in a mouse model of lupus". Sun Moon Lake, Taiwan, August 16-18, 2016.
68. American Autoimmune Related Disease Association Symposium Novel Cellular Pathways in Autoimmunity: “Spontaneous Follicular T Helper Cells in Lupus-Prone Mice Have Unique Metabolic Requirements”. Washington, D.C., September 24, 2016.
69. Lupus 2016. Glucose Oxidation in Lupus T Cells. Armok, NY, September 29-October 1, 2016
70. Lupus 2016. “Spontaneous Follicular T Helper Cells in Lupus-Prone Mice Have Unique Metabolic Requirements”. Armok, NY, September 29-October 1, 2016
71. Department of Immunology, University of Toronto. “Immunometabolism defects in systemic lupus erythematosus: mechanisms and therapeutic opportunities”. Toronto, CN October 7, 2016.
72. ACR Basic Research Conference: “T cell metabolism in SLE”. Washington, DC, November 12, 2016.
73. CIMI 4th Annual Research Retreat: “Microbial dysbiosis drives systemic autoimmunity in a mouse model of lupus”. Gainesville, FL, November 18, 2016.
74. Lupus Research at UF. SF2UF bridge program, Santa Fe College, January 31, 2017.
75. “Environmental exposures and the development of systemic lupus erythematosus: review of epidemiological studies and evidence from mouse models”. Center for Environmental and Human Toxicology, University of Florida, February 28, 2017.
76. “Immunometabolism defects in systemic lupus erythematosus: mechanisms and therapeutic opportunities”. Connective Tissue Disease workshop, Shanghai JiaoTong University School of Medicine, Shanghai, 200001, China, March 25, 2017.
77. “Immunometabolism defects in systemic lupus erythematosus: mechanisms and therapeutic opportunities”. Lupus 2017, Melbourne, Australia, March 26-29, 2017.
78. Unique requirement of high levels of glucose metabolism by autoreactive follicular helper T cells**.** Keystone Symposium: Integrating Metabolism and Immunity, Dublin, Ireland. May 29-June 2, 2017.
79. Metabolic regulation in T cells in lupus. FASEB Autoimmunity conference, Saxton River, Vt, July 10-14, 2017.
80. “Translational research in lupus”. 1st Florida Translational Cell Biology Symposium*,* Gainesville, Fl, September 22, 2017.
81. *“*Metformin treatment in lupus: evidence from mouse models and patient T cells”. Metformin: translating Biology into the Clinic, The Banbury Center at CSH, NY, September 24-27, 2017.
82. “The roads less traveled to understand lupus: Metabolism, microbiome and mesenchymal stem cells”. Feinstein Institute, Manhasset, NY, September 27, 2017.
83. **“**Immunometabolism defects in SLE: mechanisms and therapeutic opportunities**”,** Jansen, Torrey Pines, CA, Nov. 9, 2017.
84. “Metabolic checkpoints in lupus”. Advances in Autoimmunity, Third Annual Colton Center Symposium, NYU, Dec. 4, 2017.
85. ImmunoTex Summit: Metabolism of lupus CD4 T cells, San Diego, CA, Jan 30, 2018.
86. European Lupus Meeting, “Immunometabolism in systemic lupus erythematosus”. Dusseldof, Germany, March 21-24, 2018.
87. “Immunometabolism defects in SLE: mechanisms and therapeutic opportunities” Division of Pulmonary Medicine, University of Florida, April 4, 2018.
88. Immunometabolism defects in SLE: Mechanisms and therapeutic opportunities. Department of Microbiology and Immunology, Vanderbilt University, May 15, 2018.
89. “A year in review of translational research in lupus”. Lupus 21st Century, Armonk, NY, September 14, 2018.
90. “A year in review of translational research in lupus”. UF Division of Rheumatology Gran Rounds, Gainesville, Fl, September 28, 2018.
91. “Metabolic checkpoints in lupus”. Janssen Immunometabolism Scientific Advisory Board, London, UK, October 14, 2018.
92. “Metabolic determinants of lupus pathogenesis”, Department of Immunology,UTSW, Dallas, Tx, October 15, 2018
93. “Metabolic regulation of T cell function in lupus” 2018 Autumn Immunology Conference: Chicago, IL, Nov. 16-19, 2018.
94. “Metabolic regulation of T cell function in lupus” Lupus Discovery 2018: New York, NY, December 2018
95. “Deciphering cellular metabolism to understand the mechanisms of immune activation and to discover therapeutic targets”. Agilent Cell Analysis User Group Meeting. Moffitt Cancer Center, Tampa. Fl, Feb 27, 2019.
96. “Metabolic regulation of autoimmunity in lupus”. AAI 2019 Major symposium: Regulating Immune cell Metabolism to Regulate Immune Responses, San Diego, CA, May 13, 2019.
97. “Gut dysbiosis, tryptophan metabolism and systemic lupus erythematosus”. UF CMII Minisymposium, Gainesville, Fl, May 21, 2019.
98. “Gut dysbiosis and systemic lupus erythematosus”. USF-UF joint Microbiome workshop, Tampa, Fl, May 28, 2019
99. “Tryptophan metabolism, microbiome and lupus”. Lankenau Institute for Medical Research, Wynnewood, PA, June 6, 2019
100. “Metabolic checkpoints in systemic lupus erythematosus. Immunometabolism”. Fundamentals to Prospective New Therapies ABCAM conference. Boston, MA, June 25-26, 2019.
101. “Immunometabolism defects in SLE: mechanisms and therapeutic opportunities”.Shanghai Puji CTD Workshop 2019, Shanghai, PRC, August 24-25, 2019.
102. “Enhanced resistance to viral infection as a trade of for autoimmunity”, University of Central Florida, September 20, 2019.
103. “Regulation of lupus pathogenesis but the gut microbiome”, University of Western Michigan School of medicine, October 1, 2019.
104. “Metabolic checkpoints in systemic lupus erythematosus. Immunometabolism”. [Immunometabolism 2019](https://urldefense.proofpoint.com/v2/url?u=https-3A__nyas.us13.list-2Dmanage.com_track_click-3Fu-3Dcce5d9495ba8e5717fdab6ede-26id-3Dd631baa448-26e-3D65d1802c42&d=DwMFaQ&c=sJ6xIWYx-zLMB3EPkvcnVg&r=kDNjmxykhBz_bZ-z5o85nA&m=SJ7rR359jfZwXOEj8n3ZJfXarXwz8uMwXIRItcC30T8&s=oMrhqZ-H49Omg6bqjKm7aMdHnomnPXGajvbMEUBUFwg&e=), New York Academy of Science, October 22, 2019.
105. “Immunometabolism and Autoimmune Disease. Immunometabolism”. American College of Rheumatology Annual conference, Atlanta, GA, Nov. 12, 2019.
106. “Immune metabolism regulation of lupus”. Oklahoma Research Foundation, December 5, 2019.
107. **“**An Overview of Autoimmune Diseases**”** Oak Hammock Learning in Retirement (ILR) Science Program, the Oak Hammock at the University of Florida, Jan. 6, 20020.

**EDITORIAL BOARDS OF SCIENTIFIC JOURNALS**

|  |  |
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| * Autoimmunity, Editorial Board Member, 2005 - 2008.
 |  |
| * BMC Immunology, Associate Editor, 2008 - 2010
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| * 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 – 2018.
* Arthritis & Rheumatism: Advisory Editor, December 2012-
* Journal of Immunology, Section Editor 2013-2016
* Genes and Immunity, editorial Board Member 2013-2017
* Arthritis Research and Therapy, Associate Editor of the Immunology and Pathology Section, 2015 -17
* Frontiers in Immunology: Associate Editor of the Editorial Frontiers Autoimmune and Autoinflammatory Disorders, 2017-
* Immunometabolism: 2019-2022.
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**AD HOC PEER-REVIEWS FOR SCIENTIFIC JOURNALS**

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| * AJP- Heart and Circulatory Physiology
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| * Annals of the Rheumatic Diseases
* Arthritis and Rheumatism
 |
| * Arthritis Research and Therapy
 |
| * Autoimmunity
 |
| * Blood
 |
| * BMC Immunology
 |
| * BMC Medical Genetics
* BMC Medicine
 |
| * British Journal of Dermatology
* Cell Metabolism
* Cell Transplantation
* Cellular Immunology
* Clinical and Developmental Immunology
 |
| * Clinical and Experimental Immunology
 |
| * Clinical Experimental Rheumatology
* Clinical Immunology
* Current Aging Science
 |
| * Current Molecular Medicine
 |
| * Diabetes
 |
| * European Journal of Immunology
 |
| * Frontiers in Immunology
* Future Rheumatology
 |
| * Genes and Immunity
 |
| * Genomics
* Immunity, Inflammation, and Disease
 |
| * ImmunoHorizons
* 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
* Lupus
 |
| * Mammalian Genome
 |
| * Molecular Basis of Disease
* Molecular Psychiatry
* Molecular Therapy
 |
| * Nature
* Nature Communications
 |
| * Nature Genetics
 |
| * Nature Reviews Rheumatology
* Nature Scientific Reports
 |
| * Plos Genetics
* Plos One
* Proceedings of the National Academy of Sciences
* Science Immunology
* Science Reports
* Science Signaling
* Science Translational Medicine
* Trends in Molecular Medicine
 |

National / International meeting session Chair:

* 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.
* Chair of the “T cell in autoimmunity II” block-symposium, AAI meeting, Pittsburg, PA, May 6, 2014.
* Co-chair for the Systemic Lupus Erythematosus - Animal Models abstract selection, ACR meeting, San Francisco CA, November 14-17, 2015.
* Keystone Symposium: Immunometabolism in Immune Function and Inflammatory, workshop co-Chair, Banff, AB, Canada, Feb, 21-25, 2016.
* Chair of Basic Autoimmunity, AAI meeting, Seattle, WA, May13-17, 2016.
* Co-organizer of the ACR Basic Research Conference “Cellular metabolism and stress response in immune-mediated inflammatory disease”. ACR 2016, Washington, D.C., Nov 11-12, 2016.
* Chair of Basic Autoimmunity, Block Symposium Triggers and Tolerance in Autoimmunity, AAI 2017, Washington, D.C.
* Co-chair for the B cell abstract selection, ACR 2017 meeting
* Co-chair Lupus 2017, Melbourne, Australia, March 26-29, 2017
* Co-chair Keystone Symposium: Integrating Metabolism and Immunity, Dublin, Ireland. May 29-June 2, 2017.
* Co-chair FASEB Autoimmunity conference, Saxton River, Vt, July 10-14, 2017.
* Co-chair Treatment Strategies in Systemic Autoimmunity AAI meeting, May 6, 2018, Austin TX.
* Co-chair Regulation of T – B interaction: Workshop. Lupus 21st Century, Armonk, NY, September 14, 2018.
* Co-Chair: AAI 2019 Major symposium: Regulating Immune cell Metabolism to Regulate Immune Responses, San Diego, CA, May 13, 2019.
* Chair: ACR 2019: Animal Models of lupus, Atlanta, GA, Nov. 10, 2019.

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.
* Cleveland Clinic Learner Center
* University of Virginia, Department of Microbiology and Immunology
* Georgia Regents University Cancer Center
* Penn State Hershey College of Medicine
* University of Houston
* University of Toronto