

CURRICULUM VITAE

Edward K. Wakeland, Ph.D.

Edwin L. Cox, Distinguished Chair in Immunology and Genetics,
Chairman, Department of Immunology
Director, Bader Arthritis Research Center
University of Texas Southwestern Medical Center at Dallas

ADDRESS: Department of Immunology
University of Texas Southwestern Medical Center at Dallas
5323 Harry Hines Blvd.
Dallas, Tx 75390-9093
214-648-7330
FAX 214-648-7331
email: edward.wakeland@utsouthwestern.edu

PERSONAL: Born: June 4, 1949 - Duluth, Minnesota
Married, Linda Jean Smith,
One son, Benjamin

EDUCATION

1971 University of Texas, B.A. in Microbiology, Austin, Texas,
1973 University of Hawaii, M.A. in Microbiology, Honolulu, Hawaii,
1976 University of Hawaii, Ph.D. in Microbiology, Honolulu, Hawaii, Ph.D. Dissertation Title:
Structural and Genetic Studies of Chicken 7S Immunoglobulin Allotypes.
1977-1980 NIH Postdoctoral Fellow, (Mentor, Dr. Jan Klein), Dept. of Microbiology, University of Texas
Southwestern Medical Center at Dallas, Texas and the Dept. of Immunogenetics,
Max-Planck-Institute for Biology, Tubingen, Germany,

APPOINTMENTS

1976 Instructor, Department of Microbiology, University of Hawaii, Honolulu
1977-1980 Postdoctoral fellow, Individual Fellowship Award, National Institutes of Health, (Mentor, Dr. Jan Klein)
1980-1985 Assistant Professor, Department of Pathology, Immunology, and Laboratory Medicine, College of Medicine, University of Florida (appointment March 1, 1980)
1983-1991 Director, Laboratory of Molecular Genetics, Department of Pathology, University of Florida College of Medicine (appointment Sept 1, 1983)
1985-1990 Associate Professor, Department of Pathology, Immunology, and Laboratory Medicine, University of Florida College of Medicine (appointment September 1, 1985)
1989-1998 Chief, Division of Experimental Pathology & Immunology, Department of Pathology, Immunology, and Laboratory Medicine, University of Florida College of Medicine (appointment September 1, 1989)
1990-1998 Professor, Department of Pathology, Immunology, and Laboratory Medicine, University of Florida College of Medicine (appointment September 1, 1990)
1991-1998 Director, Center for Mammalian Genetics, University of Florida College of Medicine
1991-1998 Professor, Department of Molecular Genetics and Microbiology, College of Medicine, University of Florida (appointment September 1, 1991)
1997-2000 Research Professor, UF Foundation (Surrendered in 1998)
1998-DATE Edwin L. Cox Distinguished Chair in Genetics and Immunology, University of Texas Southwestern Medical Center (appointment September 1, 1998)
1998-2007 Director, Center for Immunology, University of Texas Southwestern Medical Center
1998-DATE Professor, Department of Microbiology, University of Texas Southwestern Medical Center (appointment September 1, 1998)
2001-2008 Director, UT Southwestern Microarray Core Facility

2001-2004 Director, Simmons Arthritis Research Center, University of Texas Southwestern Medical Center (appointment September 1, 2001)
2004-DATE Director, Bader Research Center for Arthritis and Autoimmunity (appointment September 1, 2004)
2007-DATE Chairman, Department of Immunology, University of Texas Southwestern Medical Center
2008-DATE Director, UT Southwestern Genomics Core Facility

SOCIETIES

American Association of Immunologists
American Society of Biochemistry and Molecular Biology
American Society for Microbiology
American Association for the Advancement of Science
Genetics Society of America
Mammalian Genome Society

PROFESSIONAL ACTIVITIES

NATIONAL SCIENTIFIC ADVISORY PANELS

Member, Advisory Panel for Eukaryotic Genetics, National Science Foundation, 1986-1992
Member, American Cancer Society National Scientific Advisory Committee for Immunology, 1992-96.
Member, National Institutes of Health Biological Sciences Study Section, 1993-1995.
Member, National Institutes of Health Immunological Sciences Study Section, 1995-1998.
Member, Arthritis Foundation Molecular Biology/Genetics Study Section, 1996-98.
Member, Scientific Advisory Board for the Autoimmune Diabetes Mouse Repository (NIH), 2002-DATE)
Chairman, NIH Expert Panel for HLA Genetics, 2004.
Chairman, Genetics Initiative Planning Committee, Alliance for Lupus Research, 2004.
Member, National Institutes of Health Genetics of Health and Disease Study Section, 2004-2008.
Member, Medical and Scientific Council, Arthritis Foundation, 2005-2008

EDITORIAL POSITIONS

Editorial Boards: *Current Opinion in Immunology* (2007-Date), *Immunogenetics* (1989-1992; 1998-2001), *Genes and Immunity* (2003-2005), *Journal of Autoimmunity* (1999-Date), *Arthritis Research & Therapy* (2004-Date), Primary Review Board, *Journal of Immunology*, reviewer for: *Science*, *Nature*, *Immunity*, *Proc. Natl. Acad. Sci.*, *J. Exp. Med.*, *J. Immunol.*, *Int. Immunol.*, *Mammalian Genome*, *Am. J. Human Genetics*, *Genomics*, *J. Cell. and Mol. Biochemistry*, *Critical Review in Immunology*, *Molecular Biology and Evolution*, *Arthritis Research*.

SCIENTIFIC MEETINGS, WORKSHOPS AND INVITED SPEAKER (Selected, 2001-2009)

Invited Speaker, University of Washington, Dept. of Immunology Seminar Series, Seattle, WA, 2001
Invited Speaker, Yale University School of Medicine Immunobiology Seminar Series, New Haven, CT, 2001
Invited Speaker, NIH/SLE Foundation Conference, Washington, DC, 2001
Invited Speaker, Washington University School of Medicine Immunology Seminar Series, St. Louis, MO, 2001
Invited Speaker, Federation of Clinical Immunology Societies (FOCIS), Boston, MA, 2001
Invited Speaker, 3rd Joint Course in Advance Rheumatology and Immunology, Nottwil, Switzerland, 2001
Invited Speaker, LaJolla Institute for Allergy & Immunology, San Diego, CA, 2001
Invited Speaker, Memorial Sloan-Kettering Cancer Center, New York, NY, 2001
Invited Speaker, S.L.E. Foundation, New York, NY, 2001
Invited Speaker, Jan Klein Symposium, Tuebingen Germany, 2001
Invited Speaker, 11th Intl Congress of Immunology, Stockholm Sweden, 2001
Invited Speaker, International Society for Neuroimmunology, Edinburg, Scotland, 2001
Invited Speaker, 1st Intl Lupus Genetics Conference, Oklahoma City, OK, 2001
Invited Speaker, 7th Intl Workshop on Autoantibodies and Autoimmunity, Awajishima, Japan, 2001
Invited Speaker, American Society of Histocompatibility & Immunology (ASHI), San Francisco, CA 2001

Invited Speaker, Nephrology and Transplantation, Cambridge, England, 2001
Invited Speaker, SLE Foundation/NIH Conference, Bethesda, MD 2002
Invited Speaker, 5th International Anti-DNA Antibody Workshop, London, England 2002
Invited Speaker, American Association of Immunologists, New Orleans, LA 2002
Invited Speaker, XIII International Congress of Histocompatibility and Immunogenetics, Seattle, WA, 2002
Invited Speaker, The Scientific Basis of Rheumatology Conference, London, England, 2002
Invited Speaker, ENU Mouse Mutagenesis Workshop, Washington DC, 2002
Invited Speaker, CSHL Mouse Molecular Genetics Conference, Cold Spring Harbor, 2002
Invited Speaker, 16th International Mouse Genome Conference, San Antonio, Tx, 2002
Invited Speaker, RCMI International Symposium, Honolulu, Hawaii, 2002
Invited Speaker, 2003 Keystone Symposium, Snowbird, Utah, 2003
Invited Speaker, University of Utah Seminar Series, Salt Lake City, Utah, 2003
Invited Speaker, University of New Mexico Seminar Series, Santa Fe, New Mexico, 2003
Invited Speaker, Molecular & Genetic Basis of Autoimmune Diseases Workshop, Lisbon, Portugal
Invited Speaker, American Association of Immunologists, Denver, Colorado, 2003
Invited Speaker, Federation of Clinical Immunology Societies (FOCIS), Paris, France, 2003
Invited Speaker, 2003 FASEB Summer Research Conference, Saxtons River, VT 2003
Invited Speaker, Baylor-Sammons Cancer Center Seminar Series, Dallas, Texas, 2003
Invited Speaker, 2003 FASEB Lymphocytes in the Immune System, Tucson, AZ, 2003
Invited Speaker, Eric K. Fernstrom Jubileum Symposium, Ystad, Sweden, 2003
Invited Speaker, American Society of Nephrology, San Diego, CA 2003
Invited Speaker, Deutsche Gessellschaft fur Immunologie Conf, Frankfurt, Germany 2003
Invited Speaker, JSI Symposium, Fukuoka Japan, 2003
Invited Speaker, Midwinter Conference of Immunology, Asilomar, CA 2004
Invited Speaker, 7th International Lupus Conference, New York City, NY, 2004
Invited Speaker, 12th International Congress of Immunology, Montreal Canada, 2004
Invited Speaker, The Novartis Foundation Symposium, London, England, 2004
Invited Speaker, JDRF Minisymposium on Autoimmunity, Harvard Medical School, Boston, 2004.
Invited Speaker, 33rd Autumn Immunology Conference, Chicago, IL, 2004
Invited Speaker, Gordon Research Conference of Sjogren's Syndrome, Ventura, CA 2005
Invited Speaker, 6th European Lupus Meeting, London, England, 2005
Invited Speaker, 2005 FASEB Experimental Biology, San Diego, CA, 2005
Invited Speaker, Serono Symposia International, Saint-Jean-Cap-Ferrat, France, 2005
Invited Speaker, Federation of Clincial Immunology Societies (FOCIS), Boston, MA 2005
Invited Speaker, Chips to Hits Conference, Boston, MA 2005
Invited Speaker, 2005 FASEB Summer Conference, Saxtons River, VT, 2005
Invited Speaker, Royal Free and University College Medical School, London, England, 2005
Invited Speaker, Australasian Society for Immunology Conference, Melbourne, Australia, 2005
Invited Speaker, Novartis Foundation Symposium, Canberra, Australia, 2006.
Chairperson, Block Symposium on Genetics of Autoimmunity, AAI Annual meeting, Boston, MA, 2006
Invited Speaker, Stadler Genetics Symposium, St. Louis, 2006.
Seminar speaker, Tokyo University, Tokyo, Japan, 2007
Seminar speaker, Sendei University, Sendei, Japan, 2007
Seminar speaker, Kyoto University, Kyoto, Japan, 2007
Plenary Speaker, AARDA Annual meeting, Baltimore, MD, 2007
Plenary Speaker, American Association of Immunologists, Miami, FL, 2007
Seminar Speaker, Scripps Clinic, San Diego, CA, 2007
Seminar Speaker, La Jolla Institute for Allergy and Immunology, San Diego, CA, 2007
Invited Speaker, 2007 FASEB Summer Conference, Saxtons River, VT, 2007
Plenary Speaker, 13th International Congress of Immunology, Rio de Jeneiro, Brazil, 2007
Invited Speaker, Baltic Summer School, Lund University, Sweden, 2007
Invited Speaker, Japanese Society of Immunology, Tokyo, Japan, 2007
Invited Speaker, Keystone Winter Symposium on Autoimmunity, 2008
Invited Speaker, Gordon Conference on Molecular Immunology, Oxford, UK 2008
Invited Speaker, Merinoff Symposium, Lake Mononk, NY 2008
Invited Speaker, Biosymposia: Lupus Autoimmunity, San Diego, CA 2009
Invited Speaker, First International Conference on ImmuneTolerance, Boston, MA, 2009

Invited Speaker, 14th International Congress of Immunology, Kobe, Japan, 2010.
Invited Speaker, Beijing Institute of Genomics Seminar Series, Beijing, China, 2010.
Plenary Speaker, 9th International Congress on SLE, Vancouver, Canada, 2010.
Invited Speaker, Frontiers of Biological Sciences, Tsinghua University, Beijing, China, 2010.
Invited Speaker, 24th International Mammalian Genome Society Conference, Crete, Greece, 2010.
Invited Speaker, Keystone Symposium, B cells: New Insights into normal versus dysregulated functions, Whistler, British Columbia, Canada, 2011.
Invited Speaker, NIAID Immunology Seminar Series, Bethesda, MD, 2011.
Invited Speaker, 5th Aegean Conference on Autoimmunity: Mechanisms and novel treatments, Crete, Greece, 2011.

CURRENT GRANT SUPPORT

ACTIVE

NIH R37 AI45196 (P.I. Wakeland, 15%) *Delineation of Genetic Pathways Contributing to SLE Pathogenesis*, 09/01/98 - 08/31/13 (MERIT Award). Total Directs: \$2,750,000. This project has 3 specific aims: **Aim 1:** *To characterize the role of SLAM/CD2 and Sles1 polymorphisms in susceptibility to human SLE.* In collaboration with a consortium of human SLE geneticists, we will determine whether polymorphisms in SLAM/CD2 and/or *Sles1* candidate genes are associated with susceptibility of humans to SLE. **Aim 2:** *To identify the gene or genes within the *Sle1* gene cluster that interacts with *Sle1b* and *Tlr7* to mediate fatal disease.* The goal of this aim will be to identify the additional gene or genes within a -2 mBase segment centromeric to *Ly108* that is essential for the development of severe disease in B6.*Sle1yaa* mice. **Aim 3:** *To identify novel new suppressive modifiers of fatal disease mediated by *Sle1yaa*.* The goal of this aim is to screen three separate wild mouse derived genomic backgrounds for the presence of modifiers that are capable of suppressing the development of fatal lupus in mice carrying *Sle1* and *yaa*.

NIH R01 AI069371 (PI: Wakeland, 15%) *Defining Genetic Pathways to Severe Systemic Autoimmunity*, 04/01/06 – 03/31/11, Total Directs: \$1,945,764. Goal: The overall goal of this project will be to define disease alleles that mediate the transition between benign and pathologic autoimmune disease in mouse models of murine lupus. There are two specific aims: 1) To positionally clone and characterize *Sle3*; and 2) To positionally clone and characterize *Sle5*.

NIH P01 AI39824 (PI: Wakeland, 30%) *Genetic Dissection of SLE Pathogenesis*, 7/1/96-6/30/12, Total Directs: \$5,095,071 Goal: The overall goal of the program project is to characterize genes and genetic pathways that either enhance or suppress the development of system autoimmunity. **Project 1 (PI: Wakeland)** Project 1 in AI39824 proposes: **Aim 1.** To identify the gene or genes mediating the autoimmune suppressive phenotype of *Sles1*. **Aim 2.** To identify the cell lineage(s) that express *Sles1* and assess the cellular interactions mediating the suppression of autoimmunity. **Aim 3.** To determine whether *Sles1* directly suppresses the disruption of immune tolerance in immature B cells mediated by *Ly108-1*. **Core A (PI: Wakeland)** Core A in AI39824 proposes: **Aim 1:** To provide leadership for the program project. **Aim 2.** To administer the program project. **Aim 3. To organize Scientific Advisory Board meetings.** **Core B (PI: Wakeland)** Core B in AI39824 proposes: **Aim 1:** To maintain the strain collections and provide experimental mice required for investigators in the program project. **Aim 2:** To produce mice with specific genotypes as required for the program project.

NIH P50AR055503-01 (PI: Mohan, Project 3 PI: Wakeland, 20%) *Genetic Dissection of SLE –From Mouse to man*, 10/01/2007 – 09/30/2012 Project 3. *Characterizing the genetics of predisposition to SLE.* The overall goal of this aim is to delineate a collection of genetic variations that can be used to quantify genetic predisposition in a patient population with incomplete SLE. **Aim 1:** Identify new human susceptibility alleles: SLAM/CD2, KLF13, CD58; **Aim 2:** Develop resources for identification of genes mediating humoral autoimmunity; **Aim 3:** Assess distribution of SLE susceptibility alleles within DRADR population; **Aim 4:** Identify causative genetic polymorphisms for genes impacting human autoimmunity.

NIH RC2AR058959-01 (Co-PIs: Wakeland (UTSW, 15%) and Gaffney (OMRF)) *Candidate Causal Variants in Systemic Lupus Erythematosus* 09/01/2009 – 08/31/2011. Total Directs and indirects: \$4,299,999. The goal of this project is to sequence 600 SLE patient genomes for 55 LD blocks containing loci associated with susceptibility in European-American and African-American SLE patients. The role of OMRF is to provide samples and perform SNP typing of newly identified sequence variations. The role of our laboratory is to re-sequence ~4Mb of genomic DNA in each of 600 SLE patients.

Chinese National Academy of Science (PI: Xiangdong Fang) Funding for Foreign Expert in Genomics 02/01/2011 – 01/31/2012. Total Directs to Fang (~\$100,000) These funds will support travel and collaborative studies with Dr. Fang at the Beijing Institute of Genomics in Beijing, China. Wakeland will teach a course in Human Genetics and Genomics and will advise and collaborate with Dr. Fang and other investigators at the Institute. All funding is provided to the Beijing Institute of Genomics.

EDUCATIONAL ACTIVITIES

DOCTORAL STUDENTS

- 1986** Thomas J. McConnell, Dissertation title: *A Restriction Fragment Analysis of the Evolutionary Relationship of the Murine H-2 Aa and Ab Alleles*. Current position, Associate Professor, Department of Biology, East Carolina University.
- 1987** Victoria W.K. Henson, Dissertation title: *Molecular Biology of the HLA-D Region. Use of Restriction Fragment Length Polymorphism Analysis to Characterize Alleles of the DQ-Beta Locus and Dp-Beta Locus in DR3 and DR4 Haplotypes*. Current position, Assistant Professor, Department of Biology, Purdue University (Carmodale).
- 1988** Roy W. Tarnuzzer, Dissertation title: *The influence of Recombination on the Diversification of the Murine I Region*. Current Position, Assistant Research Scientist, Department of Medicine, University of Florida.
- 1990** Cheng-Chan Lu, Dissertation title: *Stable Alleleic Lineages of Mhc Class II Genes Within the Genus Mus*, Current Position: Associate Professor, Department of Pathology, NCKU University, Taiwan.
- 1990** Stefan A. Boehme, Dissertation title: *The Generation of Antigen Binding Site Diversity in the Murine MHC class II A Beta Molecule*, Current position: Staff Scientist, Neurocrine Biosciences, San Diego, CA.
- 1991** Ying Ye, Dissertation title: *Diversification of the Antigen Binding Site of the Murine MHC Class II A Alpha Gene*, Current Position: Postdoctoral fellow, Cleveland Clinic.
- 1991** Richard A McIndoe, Dissertation title: *Elucidation and Characterization of a Potential Cis-Acting Regulatory Element in a Murine MHC Class II Gene*, Current Position: Associate Professor, Genetics Research Center, Medical College of Georgia.
- 1992** Ivan C.Cheng, Dissertation title: *Analysis of the Multigenic Inheritance of the Susceptibility to Diabetes in the Non-Obese Diabetic (NOD) Mouse*, Current Position: Professor, Department of Immunology, Taiwan Institute for Porcine Research.
- 1995** Jian-Ming Wu, Dissertation title: *Polygenic Control of IgG Antibody Responsiveness Against Hen Egg Lysozyme and Bovine Rhodopsin*, Current Position: Postdoctoral fellow, Johns Hopkins University.
- 1995** Mary An-Yuan Yui, Dissertation title: *Linkage Analysis and Development of Congenic Strains for the Genetic Dissection of Insulin Dependent Diabetes in the NOD Mouse*. Current position, Research Scientist, Cal Tech , Los Angeles.
- 1995** Karen E. Jackson, Dissertation title: *Genetic Influences on the Peripheral CD4+ T-Cell Receptor Repertoire*. Current Position: Associate Professor, Department of Biology, Jacksonville University
- 1998** Ying Yu, Dissertation title: *Genetic and functional analysis of Sle3*. Current position: Postdoctoral fellow, Stanford University
- 1998** Christy Myrick, Dissertation title: *Genetic analysis of polymorphisms in CD4/CD8 ratios*. Current position: Postdoctoral fellow, Emory University.
- 2003** Zhiyan Liang, Ph.D. candidate, Dissertation Title: *Pathogenic profiles and molecular structures of lupus autoantibodies*, Current Position: Scientist, Regeneron Pharmaceutical, New York.
- 2005** Nisha Limaye, Ph.D. candidate, Dissertation Title: *Common alleles of the SLAM/CD2 Family are associated with murine lupus*. Current position: Research Faculty, Brussels.
- 2005** Charles Nguyen, MSTP trainee, Dissertation research: Biological pathways mediating systemic autoimmunity, Resident in Rheumatology, University of Texas at Houston.
- 2005** Srividya Subramanian, Ph.D. candidate, Dissertation Research: Characterization of *Sles1*, a suppressive modifier of systemic autoimmunity. Postdoctoral fellow, Harvard Medical School.
- 2006** Alice Chan, MSTP trainee, Dissertation research: Genomic manipulation for the *in vivo* identification of autoimmune susceptibility genes, Resident in Pediatrics, UCSF.
- 2004-Date** Katherine Belobrajdic, Ph.D. candidate, Dissertation Research: Identification of *Sles1*, a suppressive modifier of systemic autoimmunity, Currently in Houston.
- 2005-Date** Andrew Yang, MSTP trainee, Dissertation research: Functional characterization of *Sle3*, a gene that mediates the transition from benign to pathologic autoimmunity, currently completing Medical Training.

2006-2009 Karis Hughes, Ph.D. candidate, Dissertation research: Genetic analysis of suppressive modifiers of systemic autoimmunity, deceased.

POSTDOCTORAL FELLOWS

1986-88 William R. Winter, M.D., Research project: Molecular Genetic Characterization of MHC class II Genes in NOD. Current Position: Professor, Department of Pathology, University of Florida.

1987 Paul Hermonat, Ph.D., Research project: Transduction of MHC class I genes into murine bone marrow using an AAV vector system. Current Position: Associate Professor, Department of Obstetrics and Gynecology, University of Arkansas, Little Rock.

1988-91 Wayne Potts, Ph.D., Research project: Characterization of selective mechanisms responsible for the maintenance of MHC diversity using captive wild mouse populations. Current Position: Professor, Department of Biology, University of Utah.

1989-92 Jin Xiong She, Ph.D., Research project: Molecular Genetic analysis of the mechanisms responsible for diversification of MHC class II molecules. Current Position: Professor and Director, Human Genetics Center, Medical College of Georgia.

1989-91 Kasinathan Muralidharan, Ph.D., Research Project: Genetic analysis of the polygenic inheritance of susceptibility to diabetes in the NOD mouse. Current position: Assistant Professor, Emory University.

1992-94 Scott Edwards, Ph.D., Research project: Molecular Genetic analysis of MHC diversity in Passerine Birds. Current Position: Associate Professor, Department of Zoology, Harvard University.

1992-96 Laurence Morel, Ph.D., Research project: Genetic analysis of susceptibility to systemic lupus erythematosus in NZM2410. Current Position: Professor, Department of Pathology, University of Florida.

1995-97 Chandra Mohan, M.D., Ph.D. Research project: Immunologic characterization of the functional properties of SLE susceptibility genes. Current Position: Professor, Division of Rheumatology, Department of Internal Medicine, University of Texas Southwestern Medical Center at Dallas.

1999-2000 Ayfer Orhan, M.D. Research project: Linkage analysis of genetic modifiers of autoimmunity. Current position: Resident, Sinai Hospital, Baltimore MD

1999-2001 Young-Sun Yim, Ph.D. Research Project: Congenic dissection of SLE suppressive modifiers. Current Position: Postdoctoral Fellow, University of Missouri-Columbia, Columbia, Mo.

1999-2002 Mi Ha Yuen, Ph.D. Research Project: Genetic analysis of susceptibility to SLE in humans using murine candidate genes. Current position, Research Associate, North Carolina State University.

1998-2005 Kui Liu, Ph.D. Research project: Functional and Genetic analysis of *Sle3*. Current position, Assistant Professor, Division of Rheumatology, Department of Medicine, Albert Einstein College of Medicine, New York.

1999-2005 Amy Wandstrat, Ph.D. Research Project: Positional cloning of *Sle1a* and *Sle1b*. Current position, Sen. Field Application Specialist, *Illumina, Inc.*

1999-2003 Katalin Tus, M.D. Research Project: Fine mapping and identification of *Sle1d*, an epistatic gene mediating severe lupus nephritis, current Position: Resident, Department of Pathology, University of Texas Southwestern Medical Center.

2002-2004 Quan Li, Ph.D. Research project: Global gene expression analysis of lupus-prone mice. Current Position: Associate Professor, Department of Immunology and Associate Director, Microarray Core, University of Texas Southwestern Medical Center.

2004-2009 Anna-Marie Fairhurst, Ph.D. Research project: Immunologic characterization of genetic mechanisms mediating the transition from benign to pathogenic autoimmunity, Assistant Professor, Department of Immunology, Singapore Institute of Biology, Singapore.

2005-2006 Miwako Yamamoto, Ph.D. Research project: Genomic manipulation of the murine SLAM/CD2 family, Current Position: Staff Scientist, University of Tokyo.

2006-Date Sunhee Hwang, Ph.D. Research Project: Genomic manipulation of *Ly108* as a susceptibility allele in murine lupus. Currently in training.

2006-2008 Ru Yang, M.D., Ph.D. Research project: Creating novel mouse models of SLE. Currently in training.

2007-2008 Frederic Batteux, Ph.D. Research project: Functional characterization of *Ly108* during thymic development. Associate Professor, Laboratoire d'Immunologie, UPRES 1833, Université Paris Descartes

2008-Date Ekta Rai, Ph.D. Research project: Genetic susceptibility to humoral autoimmunity in human lupus.

2009-Date Shaheen Khan, Ph.D. Research project: Identifying genes responsible for immunodeficiencies, currently in training.

2010-Date Prithvi Raj, Ph.D. Research project: Characterizing common and rare variants that contribute to SLE susceptibility in humans, currently in training.

REFERENCES

Available on request.

PUBLICATIONS

1. **Wakeland, E.K.** and A.A. Benedict: Structural and Genetic Analysis of Four Chicken 7S Immunoglobulin Allotypes. *Immunogenetics* 2:531, 1975.
2. **Wakeland, E.K.** and A.A. Benedict: The Genetics of Chicken 7S Immunoglobulin Allotypes. *Advances in Experimental Medicine and Biology*, Vol. 64, Edited by W.H. Hildemann and A.A. Benedict, Plenum Press, New York, 1975.
3. **Wakeland, E.K.** and A.A. Benedict: Structural and Genetic Studies on Chicken 7S Immunoglobulin Allotypes. I. Detection of Four Heavy Chain Specificities with a New Radioimmunoassay. *J. Immunology* 117:2185, 1976.
4. **Wakeland, E.K.** and A.A. Benedict, and H.A. Abplanalp: Structural and Genetic Studies on Chicken 7S Immunoglobulin Allotypes. II. Distribution of Allotypes on the 7S Immunoglobulin of Homozygous and Heterozygous Chickens. *J. Immunology* 118:401, 1976.
5. **Wakeland, E.K.**, J.M. Foppoli, and A.A. Benedict: Structural and Genetic Studies on Chicken 7S Immunoglobulin Allotypes. III. Proposed Nomenclature for the CS-1 Gene Alleles. *J. Immunology* 119:1218, 1977.
6. Foppoli, J.M., **E.K. Wakeland**, and A.A. Benedict: Structural and Genetic Studies on Chicken 7s Immunoglobulin Allotypes. IV. The Presence of an Unexpected Chicken Immunoglobulin Heavy Chain Allotype: Subclass or Pseudoallele? *J. Immunology* 120:812, 1978.
7. **Wakeland, E.K.**, J.M. Foppoli, and A.A. Benedict: Genetic Polymorphism of Chicken 7S Immunoglobulins. *Advances in Experimental Medicine and Biology*, Edited by A.A. Benedict, Plenum Press, New York, 1977.
8. Foppoli, J.M., **E.K. Wakeland**, and A.A. Benedict: A Note on Unexpected Chicken 7S Immunoglobulin Allotypes. *Advances in Experimental Medicine and Biology*, Edited by A.A. Benedict, Plenum Press, New York, 1977.
9. Klein, J., C.L. Chiang, and **E.K. Wakeland**: Histocompatibility Antigens Controlled by the I Region of the Murine H-2 Complex. III. Blocking with Antisera of the in vitro Response. *Immunogenetics* 5:445, 1977.
10. Klein, J., W.R. Duncan, **E.K. Wakeland**, Z. Zaleska-Rutczynska, H.J.S. Huang, and C.P. Hsu: Characterization of H-2 Haplotypes in Wild Mice. *Origins of Inbred Mice*, Symposium, 1978.
11. Foppoli, J.M., L.K. Ch'ng, A.A. Benedict, J. Ivanyi, J. Derka, and **E.K. Wakeland**: Genetic Nomenclature for Chicken Immunoglobulin Allotypes: An Extensive Survey of Inbred Lines and Antisera. *Immunogenetics* 8:385, 1979.
12. **Wakeland, E.K.** and J. Klein: The Histocompatibility-2 System in Wild Mice. VII. Serological Analysis of 29 Wild-Derived H-2 Haplotypes Using Antisera to Inbred I-Region Antigens. *Immunogenetics* 8:27, 1979.
13. Duncan, W.R., **E.K. Wakeland**, and J. Klein: The Histocompatibility-2 System in Wild Mice. VIII. Frequencies of H-2 and Ia Antigens in Wild Mice from Texas. *Immunogenetics* 9:261, 1979.
14. Duncan, W.R., **E.K. Wakeland**, and J. Klein: Heterozygosity of H-2 Loci in Wild Mice. *Nature* 281:603, 1979.
15. **Wakeland, E.K.** and J. Klein: Structural Comparisons of Serologically Identical IA and IE Encoded Antigens from Inbred and Wild Mice. *Immunogenetics* 9:535, 1979.
16. Gotze, D., J. Nadeau, **E.K. Wakeland**, R.J. Berry, F. Bonhomme, J.K. Egorov, J.P. HJorth, H. Hoogstraal, J. Vives, H. Winking, and J. Klein: The Histocompatibility-2 system in wild mice. X. Frequencies of H-2 and Ia antigens in wild mice from Europe and Africa. *J. Immunology* 124:2675, 1980.

17. Arden, B., **E.K. Wakeland**, and J. Klein: Structural comparisons of serologically indistinguishable H-2K-encoded antigens from inbred and wild mice. *J. Immunology* 125:2424, 1980.
18. **Wakeland, E.K.** and J.H. Nadeau: Immune Responsiveness and Polymorphisms of the Major Histocompatibility Complex: An Interpretation. *Strategies In Immune Regulation*, Edited by E.E. Sercarz and A.J. Cunningham, Academic Press, New York, 1980.
19. Nadeau, J., **E.K. Wakeland**, D. Gotze, and J. Klein: Distribution of H-2 antigens in local populations of *Mus musculus*. *Genetic Res. (Camb.)* 37:17, 1981.
20. **Wakeland, E.K.** and J. Klein: The Histocompatibility-2 system in wild mice. XII. An immunochemical analysis of the anti-Ia antibodies in antisera produced against 13 B10.W lines. *J. Immunology* 126:1731, 1981.
21. Singh, S.K., **E.K. Wakeland**, I. Vacek, Z.A. Nagy, and J. Klein: An H-2 haplotype possibly derived by crossing-over between the $A_{\alpha}A_{\beta}$ Duplex and the E_{β} locus. *Immunogenetics* 14:273, 1981.
22. **Wakeland, E.K.** and J. Klein: The polymorphism of I region encoded antigens among wild mice. *Current Trends in Histocompatibility*, Vol. 4, Edited by R.A. Reisfeld and S. Ferrone, Plenum Press, New York, 1981.
23. Singh, S.K., **E.K. Wakeland**, and J. Klein: Serologic and biochemical characterization of class II antigens in B10.W Lines. *Tissue Antigens* 19:40, 1982.
24. Huang, C.M., M. Parson, **E.K. Wakeland**, and L.A. Herzenberg: New immunoglobulin IgG allotypes and haplotypes found in wild mice with monoclonal anti-allotope antibodies, *J. Immunology* 128:661, 1982.
25. Arden, B., **E.K. Wakeland** and J. Klein: Minor structural variants of H-2K-controlled molecules in wild mice. *Immunogenetics* 16:491, 1982.
26. **Wakeland, E.K.** and J. Klein: Evidence for minor structural variations of class II genes in wild and inbred mice. *J. Immunology* 130:1280, 1983.
27. Peck, A.B., B. Darby and **E.K. Wakeland**: Variant class II molecules from H-2 haplotypes in wild mouse populations: functional characteristics of closely-related class II gene products. *J. Immunology* 131:2432, 1983.
28. **Wakeland, E.K.** and B. Darby: Recombination and mutation of class II histocompatibility genes in wild mice. *J. Immunology* 131:3052, 1983.
29. Shaut, D.M., **Wakeland, E.K.**, Maurer, P.H. and Peck, A.B.: Changes in the Ir gene controlled response phenotypes in mice of the A^p and A^k family of alleles expressing naturally occurring variant molecules. *J. Immunology* 133:1410, 1984.
30. McConnell, T.J. and **Wakeland, E.K.**: Restriction enzyme site polymorphisms of Class II histocompatibility gene sequences in wild mice. In: *Advances in Gene Technology: Human Genetic Disorders*, Edited by F. Ahmad, S. Black, J. Schultz, W.A. Scott and W.J. Whelan, ICSU Press, Miami, Florida, 1984.
31. **Wakeland, E.K.**, Darby, B. and Coligan, J.E.: Localization of genetic polymorphisms distinguishing A^k -related alleles to the $\beta 1$ and $\alpha 1$ domains of the A molecule. *J. Immunology* 135:391, 1985.
32. Smith, L.J., Maloy, W.L., Braylan, R.C. and **Wakeland, E.K.**: Anti-idiotype antibody specific for BCL₁ immunoglobulin elicited by synthetic peptides homologous to V_H hypervariable regions. *Cancer Research* 45:6119, 1985.
33. Henson, V., Maclaren, N.K. and **Wakeland, E.K.**: Heterogeneity of DQ-DR linkage associations in DR3 and DR4 haplotypes. IN: *Advances in Gene Technology: Molecular Biology of the Immune System*, Edited by J.W. Streilein, F. Ahmad, S. Black, B. Blomberg and R.W. Voellmy, ICSU Press, Miami, Florida, 1985.

34. McConnell, T.J. and **Wakeland, E.K.**: Patterns of genetic diversity of I-A alleles in wild mice. IN: *Advances in Gene Technology: Molecular Biology of the Immune System*, Edited by J.W. Streilein, F. Ahmad, S. Black, B. Blomberg and R.W. Voellmy, ICSU Press, Miami, Florida, 1985.
35. McConnell, T.J., Darby, B. and **Wakeland, E.K.**: Restriction fragment length polymorphisms of class II gene sequences in mice expressing minor variants of *I-A^k* or *I-A^p*. *J. Immunology* 136:3076, 1986.
36. Henson, V., Maclaren, N.K., Winter, W.E., Riley, W., Rotter, J. and **Wakeland, E.K.**: The molecular genetics of insulin dependent diabetes mellitus. *Mol. Biol. and Med.* 3:129, 1986.
37. **Wakeland, E.K.**, McIndoe, R.A., and McConnell, T.J.: Genetic variability of class II genes in wild mouse populations. IN: *Current Trends in Immunology and Microbiology*, 127:271, 1986.
38. Smith, L.J., Braylan, R.C., Edmundson, K.B., Nutkis, J.E. and **Wakeland, E.K.**: In vitro transformation of human B-cell follicular lymphoma cells by Epstein-Barr virus. *Cancer Research* 47:2062, 1987.
39. Smith, L.J., Braylan, R.C., Nutkis, J.E., Edmundson, K.B., Downing, J.R. and **Wakeland, E.K.**: Extraction of cellular DNA from human cells and tissues fixed in ethanol. *Analytical Biochem.* 160:135, 1987.
40. Winter, W.E., Beppu, H., Maclaren, N.K., Cooper, D., Bell, G.I. and **Wakeland, E.K.**: Molecular polymorphisms of the insulin gene in BB rats and other strains. *Diabetes* 36:193, 1987.
41. Henson, V., Maclaren, N., Riley, W. and **Wakeland, E.K.**: Polymorphisms of DQ β genes in HLA-DR4 haplotypes from normal and insulin dependent diabetic individuals. *Immunogenetics* 25:152, 1987.
42. Falus, A., **Wakeland, E.K.**, McConnell, T.J., Gitlin, J., Whitehead, A.S. and Colten, H.R.: DNA Polymorphism of MHC Class III Genes in Inbred and Wild Mouse Strains. *Immunogenetics* 25:290, 1987.
43. **Wakeland, E.K.**, Price-LaFace, M., Henson, V. and Peck, A.B.: Production of 35 H-2 homozygous strains from wild mice. *Immunogenetics* 26:115, 1987.
44. **Wakeland, E.K.**, Tarnuzzer, R.W., Lu, C.C., Potts, W., McIndoe, R.A., Talbot, W.S. and McConnell, T.J.: The evolution of MHC class II genes within the genus Mus. IN: *H-2 Genes, Antigens, and Functions*, Edited by C. David, Plenum Press, New York, 1987.
45. Potts, W.K., Manning, C.J., Peck, A.B., Price-LaFace, M. and **Wakeland, E.K.**: Can heterozygote advantage account for the maintenance of H-2 polymorphism? IN: *H-2 Genes, Antigens and Functions*, Edited by C. David, Plenum Press, New York, 1987.
46. LaFace, D., Hermonat, P., **Wakeland, E.** and Peck, A.: Gene transfer into hematopoietic progenitor cells mediated by an adeno-associated virus vector. *Virology* 162:483, 1988.
47. McConnell, T.J., Talbot, W.S., McIndoe, R.A. and **Wakeland, E.K.**: The origin of MHC class II gene diversity within the genus Mus. *Nature* 332:651, 1988 (Featured in *News and Views*).
48. Winter, W.E., Yamada, K., Maclaren, N.K., Tarnuzzer, R., Luchetta, R., Tarquinio, J., Peck, A.B. and **Wakeland, E.K.**: The genetic evolution of the I region in the NOD mouse: comparison to other strains of mice. IN: *Lessons from Animal Diabetes II*, eds. E. Shafir, A. Renold, John Lilley & Co., London and Paris, 1988.
49. Erhart, M., Phillips, S.J., Bonhomme, F., Boursot, P., **Wakeland, E.K.** and Nadeau, J.H.: Haplotypes that are mosaic for wild type and t-complex-specific alleles in wild mice, *Genetics* 123:405, 1989.
50. Kappler, J.W., Pullen, A.M., Callahan, J., Choi, Y., herman, A., White, J., Potts, W., **Wakeland, E.K.** and Marrack, P.: Consequences of self and foreign superantigen interaction with specific V β elements of the murine $\alpha\beta$ Tcr. *Cold Spring Harbor Symposia in Quantitative Biology* 54, 1989.

51. Marrack, P., Pullen, A.M., Herman, A., Callahan, J., Choi, Y., Potts, W., **Wakeland, E.** and Kappler, J.W. T Cell Receptors. IN: *Progress in Immunology VII* (1989).
52. Pullen, A., **Wakeland, E.**, Potts, W. Kappler, J.W., and Marrack, P. The advantage of limiting the T-cell repertoire for antigen and MHC. IN: *Molecular Biology and Autoimmune Disease*. NATO ASI Series. Publishers: Springer-Verlag, 1989.
53. **Wakeland, E.K.**, S. Boehme, J.-X. She, C.-C. Lu, R.A. McIndoe, I. Cheng, Y. Ye, and W.K. Potts: Ancestral Polymorphisms of MHC Class II Genes: Divergent Allele Advantage. *Immunologic Research* 9:123, 1990.
54. **Wakeland, E.K.**, S. Boehme, and J.-X. She: The Generation and Maintenance of MHC Class II Gene Polymorphism in Rodents. *Immunological Reviews* 113:207, 1990.
55. Potts, W.K. and **E.K. Wakeland**: Evolution of Diversity at the Major Histocompatibility Complex. *Trends in Ecology and Evolution* 5:181, 1990.
56. Siegelman, M.H., I.C. Cheng, I.L. Weissman, and **E.K. Wakeland**: The Mouse Lymph Node Homing Receptor is Identical with the Lymphocyte Cell Surface Marker Ly-22: Role of the EGF Domain in Endothelial Binding. *Cell* 61:611, 1990.
57. Pullen, A.M., W. Potts, **E.K. Wakeland**, J. Kappler, and P. Marrack: Surprisingly Uneven Distribution of the T Cell Receptor V β Repertoire in Wild Mice. *J. Exp. Med.* 171:49, 1990.
58. Potts, W.K. and **Wakeland, E.K.**: The maintenance of MHC polymorphism. *Immunology Today* 11:39, 1990 (Scientific Correspondence).
59. Klein, J., R.E. Bontrop, R.L. Dawkins, H.A. Erlich, U.B. Gyllenstein, E.R. Heise, P.P. Jones, P.Parham, **E.K. Wakeland**, and D.I. Watkins: Nomenclature for the major histocompatibility complexes of different species: a proposal. *Immunogenetics*, 31:217, 1990.
60. Klein, J., C. Benoist, *et.al.*: Revised nomenclature of mouse *H-2* genes. *Immunogenetics* 32:147, 1990.
61. She, J.-X., S. Boehme, T.W. Wang, F. Bonhomme, and **E.K. Wakeland**: The Generation of MHC Class II Gene Polymorphism in the Genus *Mus*. *Biological Journal of the Linneas Society*, 41:141, 1990.
62. Tine, A.J., A. Walsh, D. Rathbun, L. Leonard, **E.K. Wakeland**, R. Dilwith, and L. Flaherty. Genetic polymorphisms of *Q* region genes from wild-derived mice: implications for *Q* region evolution. *Immunogenetics* 1990.
63. She, J.-X., S.A. Boehme, T.W. Wang, F. Bonhomme, and **E.K. Wakeland**: Amplification of MHC Class II Gene Diversity by Intra-exonic Recombination. *Proc. Natl. Acad. Sci. (U.S.A.)*, 88:453, 1991.
64. Horlick, K.R., I.C. Cheng, W.T. Wong, **E.K. Wakeland**, and H.S. Nick: Mouse lipocortin I gene structure and chromosomal assignment: Gene duplication and the origins of a gene family, *Genomics*, 10:365, 1991.
65. Potts, W.K., C.J. Manning, and **E.K. Wakeland**: Mating patterns in seminatural populations of mice influenced by Mhc genotypes. *Nature* 352:619, 1991 (Discussed in *News and Views*).
66. Ferl, R.J., C.J. Nairn, J.-X. She, **E.K. Wakeland**, and E. Almira: The application of automated DNA sequence analysis to phylogenetic studies. In: *Phylogenetic Analysis of DNA Sequences*, Oxford Press. M. Miyamoto and J. Cracraft, eds., 1991.
67. She, J.-X., and **E.K. Wakeland**: Molecular and genetic mechanisms involved in the generation of Mhc diversity. In: *Molecular Evolution of Mhc*, Springer-Verlag, Series H: Cell Biology, Vol. 59:139-154, 1991.
68. Potts, W.K., C.J. Manning, and **E.K. Wakeland**: The evolution of MHC-Based mating preferences in *Mus*. In: *Molecular Evolution of Mhc*, Springer-Verlag, Series H: Cell Biology, Vol 59:421-434, 1991.

69. Ye, Ying, J.X. She, and **E.K. Wakeland**: Diversification of class II A α within the genus *Mus*. In: *Molecular Evolution of Mhc*, Springer-Verlag, Series H: Cell Biology, Vol. 59:131-138, 1991.
70. Potts, W.K., C.J. Manning, and **E.K. Wakeland**: Sexual selection and MHC genes. *Nature* 356:293-294, 1992 (Scientific Correspondance).
71. Meisler, M.H., J.A. Todd, N. Rodrigues, **E.K. Wakeland**, and M.F. Seldin: Mouse chromosome 3. *Mammalian Genome*, 3:544-554, 1992.
72. Manning, C.J., **E.K. Wakeland**, and W.K. Potts: Communal nesting patterns in mice implicate MHC genes in kin recognition. *Nature* 360:581-583, 1992 (Featured in *News and Views*).
73. Winter, W.E., Yamada, K., Shimpo, K., Luchetta, R., and **E.K. Wakeland**: T cell receptor beta diversity and joining segments in the NOD mouse. *Autoimmunity* 12:9-12, 1992.
74. Muralidharan, K., and **E.K. Wakeland**: Improved detection of polymorphic markers in RAPD PCR with increased concentration of primer and template. *Biotechniques*, 14(3):362-364, 1993.
75. Chesnut, K., J.-X. She, I. Cheng, K. Muralidharan, and **E.K. Wakeland**: Characterizations of candidate genes for IDD susceptibility from the diabetes-prone NOD mouse strain. *Mammalian Genome*, 4:549-554, 1993.
76. Potts, W.K. and **E.K. Wakeland**. The evolution of MHC genetic diversity: a tale of incest, pestilence, and sexual preference. *Trends in Genetics*, 9:408-412, 1993.
77. She, J.X., I.P. Zhang, J. Scornik, and **E.K. Wakeland**. A novel method HLA DR allele: DRB1*0810. *Immunogenetics* , 39(1):78, 1994.
78. Morel, L., U.H. Rudofsky, J.A. Longmate, J. Schiffenbauer, and **E.K. Wakeland**: Polygenetic control of susceptibility to murine systemic lupus erythematosus. *Immunity*, 1(3):219-229, 1994.
79. She, J.X., Bui, M.M., Tian, X.H., Muir, A., **Wakeland, E.K.**, Zorovich, B., Zhang, L.P., Liu, M.C., Thompson, G. and Maclaren, N.K: Additive susceptibility to insulin-dependent diabetes conferred by HLA-DQB1 and insulin genes. *Autoimmunity*, 18:195-203, 1994.
80. Potts, W.K., C.J. Manning, and **E.K. Wakeland**: The role of infectious disease, inbreeding and mating preferences in maintaining MHC genetic diversity: An experimental test. *Phil. Trans. R. Soc. Lond. B*, 346:369-378, 1994.
81. Stoneman, E.R., M. Bennett, J. An, K.A. Chesnut, **E.K. Wakeland**, J. Scheerer, M.J. Siciliano, V. Kumar, and P.A. Mathew: Cloning and characterization of 5E6 (ly 49C), a receptor molecule expressed on a subset of murine natural killer cells. *J. Exp. Med.*, 182:305-313, 1995.
82. Barbosa M.D.F.S., Johnson, S.A., Achey, K., Gutierrez, M.J., **Wakeland, E.K.**, and Kingsmore, S.K.: Genetic mapping of the choroideremia-like, rab escort protein-2 gene on mouse chromosome 1. *Mammalian Genome*, 6:488-89, 1995.
83. Edwards, S., **E.K. Wakeland**, and W. Potts. Contrasting histories of avian and mammalian MHC genes revealed by class II B sequences from songbirds. *Proc. Natl. Acad. Sci.*, 92: 12200-12204, 1995.
84. Barbosa, M.D.F.S., Johnson, S.A., Achey, K., Gutierrez, M.J., **Wakeland, E.K.**, Zerial, M, Kingsmore, S.F: The Rab protein family: Genetic mapping of six RAB genes in the mouse. *Genomics*, 30:439-444, 1995.
85. Lu, C.C., J.-X. She, F. Bonhomme, and **E.K. Wakeland**: Evolutionary origins of retroposon lineages of *Mhc* class II *Ab* alleles. *Immunogenetics*, 43: 115-24 1996.
86. Morel, L., Yu, Y., Blenman, K.R., Caldwell, R.A. and **E.K. Wakeland**: Production of congenic mouse strains carrying SLE-susceptibility genes derived from the SLE-prone NZM/Aeg2410 strain. *Mammalian Genome*, 7:335-339, 1996.

87. Yui, M.A., K. Muralidharan, B. Moreno-Altamirano, G. Perrin, K. Chesnut, and **E.K. Wakeland**: Production of congenic mouse strains carrying NOD-derived diabetogenic genetic intervals: an approach for the genetic dissection of complex traits. *Mammalian Genome*, 7:331-334, 1996.
88. Barbosa, M.D.F.S., Johnson, S.A., **Wakeland, E.K.**, Zerial, M., Kingsmore, S.F: Genetic mapping of the *Rab5a* and *Rab5b* genes on mouse chromosomes 2 and 17, respectively. *Mamm Genome*, 7:166-167, 1996.
89. Wakeland, E.K. and M. Seldin: Chromosome 3. *Mammalian Genome* 6:S64-S72, 1996.
90. Wu, J-M., Longmate, J.A., Adamus, G., Hargrave, P.A., and **Wakeland, E.K**: Interval mapping of quantitative trait loci controlling humoral immunity to exogenous antigens: evidence that non-MHC Ir genes may also influence susceptibility to autoimmunity. *J. Immunology*, 157:2498-2505, 1996.
91. Vyse, T.J., L. Morel, F.J. Tanner, **E.K. Wakeland**, and B.L. Kotzin: Backcross analysis of genes linked to autoantibody production in New Zealand White Mice. *J. Immunology*, 157: 2719-2727, 1996.
92. Tchernev, V.T., Barbosa, M.D.F.S., Detter, J.C., Patel, T.D., Achey, K., **E.K. Wakeland**, Gueorguieva, R.V., Yang, M.C.K., Gossler, A., and Kingsmore, S.F.: Genetic mapping of 20 novel expressed sequence tags from midgestation mouse embryos suggests chromosomal clustering. *Genomics* 40:170-174, 1997.
93. Morel, L., C. Mohan, Y. Yu, B.P. Croker, X.-H.Tian, A. Deng, and **E. K. Wakeland**: Functional Dissection of systemic lupus erythematosus using congenic mouse strains. *J. Immunology*, 158:6019-6026, 1997.
94. Mohan, C., Morel, L., Yang, P., and **Wakeland, E.K.**: Genetic dissection of SLE pathogenesis: *Sle2* on murine chromosome 4 leads to B-cell hyperactivity. *J. Immunology*, 159:454-465, 1997.
95. Edwards, S.V., Chesnut, K., Satta, Y., and **E.K. Wakeland**: Ancestral polymorphism of *Mhc* class II genes in mice: Implications for balancing selection and the mammalian molecular clock. *Genetics*, 146:655-668, 1997.
96. Yui, M.A. and **Wakeland, E.K.** Mouse Chromosome 3. *Mammalian Genome*, 7, S45-S59, 1997.
97. **Wakeland, E.K.**, Morel, L., Mohan, C., and Yui, M.: Genetic dissection of lupus nephritis in murine models of SLE. *J. Clin. Immunology*, 17(4):272-281, 1997.
98. **Wakeland, E.K.**, Morel, L., Achey, K., Yui, M. and Longmate, J.: Speed congenics: A classic technique moves into the fast lane (relatively speaking). *Immunology Today*, 18(10):472-477, 1997.
99. Mohan, C., Alas, E., Morel, L., Yang, P., and **Wakeland, E.K.** Genetic dissection of SLE pathogenesis: *Sle 1* on murine chromosome 1 leads to a selective loss of tolerance to H2A/H2B/DNA subnucleosomes. *J. Clin. Inv.*, 101:1362-1372, 1998.
100. Myrick, C. and **Wakeland, E.K.** Chromosome 3. *Mammalian Genome*, 8:S50-S57, 1998.
101. Mohan, C., Morel, L., Yang, P. and **Wakeland, E.K.** Accumulation of splenic B1a cells with strong antigen-presenting capability in NZM12410 lupus mice. *Arthritis Rheum.*, 41:1652-1662, 1998.
102. Mohan, C. and **Wakeland, E.K.** Genetic dissection of murine lupus. *In Lupus: Cellular and Molecular Pathogenesis*. Humana Press. 1998.
103. MacNamara, R.K., Stumpo, D.J., Morel, L., Lewis, M.H., **Wakeland, E.K.**, Blackshear, P.J. and Lenox, R.H. Effect of reduced myristoylated alanine-rich C kinase substrate expression on hippocampal mossy fiber development and spatial learning in mutant mice: Transgenic rescue and interactions with gene background, *PNAS* 95: 14517-14522, 1998.
104. Morel, L. And **Wakeland, E.K.** Susceptibility to lupus nephritis in the NZB/NZW model system. *Current Opinion Immun.*,10:718-725, 1998.

105. McDevitt, H.O., **Wakeland, E.K.**, Autoimmunity, Editorial overview, *Current Opinion in Immunology*, 10:647-648, 1998
106. Morel, L., Mohan, C., Yu, Y., Schiffenbauer, J., Rudofsky, U.H., Tian, X-H., Longmate, J.A. and **Wakeland, E.K.** Multiple inheritance of component phenotypes in a murine model of lupus. *Mammalian Genome*, 10:176-181, 1999.
107. Sobel, E.S., Mohan, C., Morel, L., Schiffenbauer, J., and **Wakeland, E.K.**: Genetic dissection of SLE pathogenesis: Adoptive transfer of *Sle1* on murine chromosome 1 by bone marrow. *J Immunology*, 16: 2415-2421, 1999.
108. Morel, L., Yui, M.E., **Wakeland, E.K.** Contribution of murine models to our understanding of autoimmune diseases. *Annales De L' Institut Pasteur*, 9:351-359, 1999.
109. Mohan, C., Yu, Y., Morel, L. Yang, P. and **Wakeland, E.K.** Genetic dissection of SLE Pathogenesis: *Sle3* on murine chromosome 7 impact T cell activation, differentiation and cell death. *J. Immunol.* 162: 6492-6502, 1999.
110. Mohan, C. Morel, L., Yang, P., Wantabe, H., Croker, B., Gilkeson, G., and **Wakeland, E.K.** Genetic dissection of lupus pathogenesis: a recipe for nephrophilic autoantibodies. *J. Clin. Inv.* 103: 1685-1695, 1999
111. Morel, L., Tian, X-H., Croker, B.P. and **Wakeland, E.K.** Epistatic modifiers of autoimmunity in a murine model of lupus nephritis. *Immunity*. 11:131-139, 1999
112. **Wakeland, E.K.**, Wandstrat, A., Liu, K., and Morel, L.: Genetic dissection of systemic lupus erythematosus., *Current Opinion in Immunology*, 11:701-707, 1999
113. Morel, L., Wakeland, E.K.: Lessons from the NZM2410 model and related mouse models, in *Genetics of SLE, International Review of Immunology*, 11:423-446, 2000.
114. Morel, L., Croker, B.P., Blenman, K.R., Mohan, C., Huang, G., Gilkeson, G., and **Wakeland, E.K.** : Genetic reconstitution of systemic lupus erythematosus immunopathology with poly-congenic murine strains, *P.N.A.S.*, 97: 6670-6675, 2000
115. Wandstrat, A., **Wakeland, E.K.**: Chapter 15: SLE IN: *Cytokines in Autoimmunity*, Edited by Kuchroo, V., Hafler, D., Sarvetnick, N. The Humana Press Inc., New Jersey, 2000
116. **Wakeland, E.K.**, Liu, K., Delineation of the pathogenesis of systemic lupus erythematosus by using murine models, In Press, Kluwer Academic/Plenum Press, New York, 2000
117. Morel, L., Blenman, K.R., Croker, B.P., **Wakeland, E.K.**, The major murine SLE-Susceptibility locus, *Sle1*, is a cluster of functionally related genes. *Proc.Natl.Acad.Sci.*, 98:1787-1792, 2001
118. Yim, Y., **Wakeland, E.K.**, The genetics of lupus. *Current Opinion in Nephrology and Hypertension*, 10:437-443, 2001
119. Wandstrat, A, **Wakeland, E.K.**, The genetics of complex autoimmune diseases: non-MHC susceptibility genes. *Nature Immunology*, 2:802-809, 2001
120. **Wakeland, E.K.**, Lui, K., Graham, R.R., Behrens, T., Delineating the Genetic Basis of Systemic Lupus Erythematosus, *Immunity*, 15:397-408, 2001.
121. Boackle, S., Holer, V.M., Chen, X., Szakonyi, G., Karp, D.R., **Wakeland, E.K.**, Morel, L.: Cr2, a Candidate Gene in the Murine *Sle1c* Lupus Susceptibility Locus, Encodes a Dysfunctional Protein *Immunity*, 15:775-785, 2001.
122. Boland, S., Yim, Y.S., Tus, K. **Wakeland, E.K.**, Ravetch, J.V.: Genetic Modifiers of Systemic Lupus Erythematosus in FcγRIIB^{-/-} Mice. *J.Exp. Med.*: 195:1167-1174, 2002
123. Myrick, C., DiGuisto, R., DeWolfe, J., Bowen, E., Kappler J., Marrack, P., **Wakeland, E.K.**, Linkage analysis of variation in CD4:CD8 T Cell subsets between C57BL/6 and DBA/2. *Genes and Immunity*, 3:144 -150, 2002

124. Sobel, E., Morel, L., Baert, R., Mohan, C., Schiffenbauer, J., **Wakeland, E.K.**, Genetic Dissection of Systemic Lupus Erythematosus: Evidence for Functional Expression of *Sle3/5* by Non-T Cells¹. *J.Immunology*, 169:4025-4032, 2002
125. Sobel, E., Satoh, M., Chen, Y., **Wakeland, E.K.**, Morel, L., The Major Murine Systemic Lupus Erythematosus Susceptibility Locus *Sle1* Results in Abnormal Functions of Both B and T Cells¹. *J. Immunology*, 169:2694-2700, 2002.
126. **Wakeland,E.K.** and Wandstrat,A.E., Analyzing genomes: current realities and future possibilities. *Curr. Opin. Immunol.*, 14:622-626, 2002.
127. Nguyen, C., Limaye,N., and **Wakeland,E.K.**, Susceptibility genes in the pathogenesis of murine lupus. *Arthritis Res. 4 Suppl 3*, S255-S263, 2002.
128. Kelly, M.A., Low,M.J., Phillips,T.J., **Wakeland,E.K.**, and Yanagisawa,M., The mapping of quantitative trait loci underlying strain differences in locomotor activity between 129S6 and C57BL/6J mice. *Mamm. Genome* 14:692-702, 2003.
129. Abiola,O., Angel,J.M., Avner,P., Bachmanov,A.A., Belknap,J.K., Bennett,B., Blankenhorn,E.P., Blizard,D.A., Bolivar,V., Brockmann,G.A., Buck,K.J., Bureau,J.F., Casley,W.L., Chesler,E.J., Cheverud,J.M., Churchill,G.A., Cook,M., Crabbe,J.C., Crusio,W.E., Darvasi,A., de,H.G., Dermant,P., Doerge,R.W., Elliot,R.W., Farber,C.R., Flaherty,L., Flint,J., Gershenfeld,H., Gibson,J.P., Gu,J., Gu,W., Himmelbauer,H., Hitzemann,R., Hsu,H.C., Hunter,K., Iraqi,F.F., Jansen,R.C., Johnson,T.E., Jones,B.C., Kempermann,G., Lammert,F., Lu,L., Manly,K.F., Matthews,D.B., Medrano,J.F., Mehrabian,M., Mittelman,G., Mock,B.A., Mogil,J.S., Montagutelli,X., Morahan,G., Mountz,J.D., Nagase,H., Nowakowski,R.S., O'Hara,B.F., Osadchuk,A.V., Paigen,B., Palmer,A.A., Peirce,J.L., Pomp,D., Rosemann,M., Rosen,G.D., Schalkwyk,L.C., Seltzer,Z., Settle,S., Shimomura,K., Shou,S., Sikela,J.M., Siracusa,L.D., Spearow,J.L., Teuscher,C., Threadgill,D.W., Toth,L.A., Toye,A.A., Vadasz,C., Van,Z.G., **Wakeland,E.**, Williams,R.W., Zhang,H.G., and Zou,F. The nature and identification of quantitative trait loci: a community's view. *Nat. Rev. Genet.* 4:911-916, 2003.
130. Zhang,F., Liang,Z., Matsuki,N., Van,K.L., Joyce,S., **Wakeland,E.K.**, and Aune,T.M., A murine locus on chromosome 18 controls NKT cell homeostasis and Th cell differentiation. *J. Immunol.* 171:4613-4620, 2003.
131. Brich,J., Shie,F.S., Howell,B.W., Li,R., Tus,K., **Wakeland,E.K.**, Jin,L.W., Mumby,M., Churchill,G., Herz,J., and Cooper,J.A., Genetic modulation of tau phosphorylation in the mouse. *J. Neurosci.* 23:187-192,2003.
132. Koarada,S., Wu,Y., Yim Y.-S., **Wakeland, E.K.**, and Ridgway,W.M., Nonobese diabetic (NOD) CD4 lymphocytosis maps outside the MHC locus on chromosome 17. *Immunogenetics*, 56:333-337, 2004.
133. Wandstrat,A.E., Nguyen,C., Limaye,N., Chan,A.Y., Subramanian,S., Tian,X.-H., Yim,Y.-S., Pertsemliadis,A., Garner,H.R. Jr., Morel,L., and **Wakeland,E.K.**, Association of extensive polymorphisms in the SLAM/CD2 gene cluster with murine lupus. *Immunity* 21:769-780, 2004.
134. Rititzky, L.I., Hernandez, H.J., Yim, Y.S., Ricklan, D.E., Finger, E., Mohan, C., Peter, I., **Wakeland, E.K.**, and Stadecker, M.J.: Enhanced egg-induced immunopathology correlates with high IFN-gamma in murine schistosomiasis: identification of two epistatic genetic intervals. *J. Immunol.* 174:435-440, 2004.
135. Liu,K., Liang,C., Liang,Z., Tus K., and **Wakeland, E.K.**, *Sle1ab* Mediates The Aberrant Activation of STAT3 and Ras-ERK Signaling Pathways in B lymphocytes, *J. Immunol.*, 174:1630-1637, 2005.
136. Pitcher,L.A., Mathis,M.A., Subramanian,S., Young,J.A., **Wakeland, E.K.**, Love,P.E., and van Oers,N.S., Selective expression of the 21-Kilodalton Tyrosine-Phosphorylated form of TCR ζ promotes the emergence of T cells with autoreactive potential, *J. Immunol.* 174:6071-6079, 2005.
137. Lauwerys, B.R. and **Wakeland,E.K.** Genetics of lupus nephritis, *Lupus*, 14:2-12, 2005.
138. Subramanian, S. and **Wakeland,E.K.** The importance of epistatic interactions in the development of autoimmunity. Novartis Foundation Symposium 267), Wiley, Chichester, 2005.

139. Zhu, J., Liu, X., Xie, C., Yan, M., Yu, Y., Sobel, E.S., **Wakeland, E.K.**, and Mohan, C. Genetic dissection of lupus: T-cell hyperactivity as a consequence of pro-inflammatory antigen presenting cells. *J. Clin. Invest.*, 115:1869-1878, 2005.
140. Han, B.K., White, A.M., Dao, K.H., Karp, D.R., **Wakeland, E.K.**, and Davis, L.S. Increased prevalence of activated CD70⁺CD4⁺ T cells in the periphery of patients with systemic lupus erythematosus. *Lupus*, 14:598-606, 2005.
141. Subramanian, S., Yim, Y.-S., Liu, K., Tus, K., Zhou, J., and **Wakeland, E.K.** Epistatic suppression of SLE: Fine-Mapping of *Sles1* to <1 Mb., *J. Immunol.*, 175:1062-1072, 2005.
142. Xu, Z., Duan, B., Croker, B.P., **Wakeland, E.K.**, and Morel, L. Genetic dissection of the murine lupus susceptibility locus *Sle2*: contributions to increased peritoneal B-1a cells and lupus nephritis map to different loci. *J. Immunol.* 175:936, 2005.
143. Stanic, A.K., Stein, C.M., Morgan, A.C., Fazio, S., Linton, M.F., **Wakeland, E.K.**, Olsen, N.J., Major, A.S. Immune dysregulation accelerates atherosclerosis and modulates plaque composition in systemic lupus erythematosus, *Proc. Natl. Acad. Sci.*, 103:7018-7023, 2006.
144. Subramanian, S., Tus, K., Li, Q.-Z., Wang, A., Tain, X.-H., Zhou, J., Liang, C., Barov, G., McDaniel, L.D., Zhou, X.J., Schultz, R.A., and **Wakeland, E.K.** From the Cover: A Tlr7 translocation accelerates systemic autoimmunity in murine lupus, *Proc. Natl. Acad. Sci.*, 103:9970-9975, 2006.
145. Kumar, K.R., Li, L., Yan, M., Bhaskarabhatla, M., Mobley, A.B., Nguyen, C., Mooney, J.M., Schatzle, J.D., **Wakeland, E.K.**, and Mohan, C. Regulation of B cell tolerance by the lupus susceptibility gene *Ly108*, *Science*, 312:1665-1669, 2006.
146. Fairhurst, A.-M., Wandstrat, A.E., and **Wakeland, E.K.** Systemic Lupus Erythematosus: Multiple immunologic phenotypes in a complex genetic disease, *Advances in Immunology*, Vol. 92, pp1-70, 2006.
147. Subramanian, S., and **Wakeland, E.K.** Genetics of Systemic Autoimmunity in the Mouse. *In The Mouse in Biomedical Research*, Vol. 4, Academic Press, New York, 2006..
148. Wandstrat, A.E., Carr-Johnson, F., Branch, V., Gray, H., Fairhurst, A.M., Reimold, A., Karp, D., **Wakeland, E.K.**, Olsen, N.J. Autoantibody profiling to identify individuals at risk for systemic lupus erythematosus, *J. Autoimmunity*, 27:153-160, 2006.
149. **Wakeland, E.K.** Modern Immunogenetics: simple questions with complex answers. *Curr. Opin. Immunol.* 18:605-607, 2006.
150. Chan, A.Y., Westcott, J.M., Mooney, J.M., **Wakeland, E.K.**, Schatzle, J.D., The role of SAP and the SLAM family in autoimmunity, *Curr. Opin. Immunol.*, 18:656-664, 2006.
151. Johansson, M.H., Taylor, M.A., Jagodic, M., Tus, K., Schatzle, J.D., **Wakeland, E.K.**, Bennett, M., Mapping of quantitative trait loci determining NK cell-mediated resistance to MHC class I-deficient bone marrow grafts in perforin-deficient mice, *J. Immunol.* 177:7923-7929, 2006.
152. Li, Q.-Z., Zhou, J., Wandstrat, A., Carr-Johnson, F., Branch, V., Karp, D.R., Mohan, C., **Wakeland, E.K.**, Olsen, N.J. Use of autoantigen proteome arrays to gain insights on the evolution of early systemic lupus erythematosus, *Clin. Exp. Imm* 147:60-70, 2007.
153. Arai, S., Miyake, K., Voit, R., Nemoto, S., **Wakeland, E.K.**, Grummt, I., Miyazaki, T. Death-effector domain-containing protein DEDD is an inhibitor of mitotic CDK1/cyclin B1, *Proc. Natl. Acad. Sci USA* 104:2289-04, 2007.
154. Xie, C., Patel, R., Wu, T., Zhu, J., Henry, T., Bhaskarabhatla, M., Samudrala, R., Tus, K., Gong, Y., Zhou, H., **Wakeland, E.K.**, Zhou, X.J., Mohan, C. PI3K/AKT/mTOR hypersignaling in autoimmune lymphoproliferative disease engendered by the epistatic interplay of *Sle1b* and *Fas/lpr*, *Int. Immunol.* 19:509-522, 2007.
155. Rahman, Z.S., Niu, H., Perry, D., **Wakeland, E.**, Manser, T., and Morel, L. Expression of the autoimmune Fcgr2b

NZW allele fails to be upregulated in germinal center B cells and is associated with increased IgG production. *Genes and Immunity*, 8:604-612, 2007.

156. Liu, K., Li, Q.Z., Yu, Y., Liang, C., Subramanian, S., Zeng, Z., Wang, H.W., Xie, C., Zhou, X.J., Mohan, C., and **Wakeland, E.K.**, *Sle3* and *Sle5* can independently couple with *Sle1* to mediate severe lupus nephritis, *Genes and Immunity*, 2007.

157. Sawalha, A.H., Kaufman, K.M., Kelly, J.A., Adler, T., Aberle, J., Kipatrick, J., **Wakeland, E.K.**, Li, Q.Z., Wandstrat, A.E., Karp, D.S., James, J.A., Merrill, J.T., Lipsky, P., and Harley, J.B. Genetic Association of IL-21 polymorphisms with systemic lupus erythematosus, *Ann. Rheum.Dis.*, 67:458-461, 2008.

158. Limaye, N., Belobrajdic, K., Wandstrat, A.E., Bonhomme, F., Edwards, S.V., and **Wakeland, E.K.** Prevalence and evolutionary origins of autoimmune susceptibility alleles in natural mouse populations. *Genes and Immunity*, 9:61-68, 2008.

159. Harley, J. B. Alarcon-Riquelme, M. E., Criswell, L. A., Jacob, C. O., Kimberly, R. P., Moser, K. L., Tsao, B. P., Vyse, T.J., Langefeld, C. D., Nath, S. K., Guthridge, J. M., Cobb, B. L., Mirel, D. B., Marion, M. C., Williams, A. H, Divers, J., Wang, W., Frank, S. G., Namjou, B., Gabriel, S. B., Lee, A. T., Gregersen, P. K., Behrens, T. W., Taylor, K. E., Fernando, M., Zidovetzki, R., Gaffney, P. M., Edberg, J. C., Rioux, J. D., Ojwang, J. O., James, J. A., Merrill, J. T., Gilkeson, G. S., Seldin, M. F., Yin, H., Baechler, E. C., Li, Q. Z., **Wakeland, E. K.**, Bruner, G. R., Kaufman, K. M. Kelly, J. A. Genome-wide association scan in women with systemic lupus erythematosus identifies susceptibility variants in ITGAM, PXX, KIAA1542, and other loci, *Nature Genetics*, 40:204-210, 2008.

160. Nath, S. K., Han, S., Kim-Howard, X., Kelly, J. A., Viswanathan, P., Gilkeson, G. S., Chen, W., Zhu, C., McEver, R. P., Kimberly, R. P., Alarcon-Riquelme, M. E., Vyse, T. J., Li, Q. Z., **Wakeland, E. K.**, Merrill, J. T., James, J. A., Kaufman, K. M., Guthridge, J. M., Harley, J. B. A nonsynonymous functional variant in integrin-alpha(M) (encoded by ITGAM) is associated with systemic lupus erythematosus. *Nature Genetics* 40: 152-154, 2008.

160. Kelly, J. A., Kelley, J. M., Kaufman, K. M., Kilpatrick, J., Bruner, G. R., Merrill, J. T., James, J. A., Frank, S. G., Reams, E., Brown, E. E., Gibson, A. W., Marion, M. C., Langefeld, C. D., Li, Q. Z., Karp, D. R., **Wakeland, E. K.**, Petri, M., Ramsey-Goldman, R., Reveille, J. D., Vila, L. M., Alarcon, G. S., Kimberly, R. P., Harley, J. B., Edberg, J. C. Interferon regulatory factor-5 is genetically associated with systemic lupus erythematosus in African Americans. *Genes and Immunity*, 9:187-94, 2008.

161. Fairhurst, A.-M., Mathian, A., Connolly, J.E., Wang, A., Gray, H.F., George, T.A., Zhou, X.J., Li, Q.-Z., Koutouzov, S., Banchereau, J, **Wakeland, E.K.** Systemic IFN α drives kidney nephritis in B6.*Sle123* mice. *Eur. J. Immunol.*, 2008.

162. Fairhurst, A. M., Hwang, S. H., Wang, A., Tian, X. H., Boudreaux, C., Zhou, X. J., Casco, J., Li, Q. Z., Connolly, J. E., **Wakeland, E. K.** *Yaa* autoimmune phenotypes are conferred by overexpression of TLR7. *Eur. J. Immunol.*, 2008.

163. Kelly, J. A., Kelley, J. M., Kaufman, K. M., Kilpatrick, J., Bruner, G. R., Merrill, J. T., James, J. A., Frank, S. G., Reams, E., Brown, E. E., Gibson, A. W., Marion, M. C., Langefeld, C. D., Li, Q. Z., Karp, D. R., **Wakeland, E. K.**, Petri, M., Ramsey-Goldman, R., Reveille, J. D., Vila, L. M., Alarcon, G. S., Kimberly, R. P., Harley, J. B., Edberg, J. C. Interferon regulatory factor-5 is genetically associated with systemic lupus erythematosus in African Americans. *Genes and Immunity*, 9:187-94, 2008.

164. Liu, K.* , Li, Q.Z.* , Delgado-Vega, A., Abelson, A.K.* , Sánchez, E.* , Kelly, J.A.* , Li, L., Cheung I, S., Liu, Y., Zhou, J., Yan, M., Ye, Q., Liu, S., Xie, C., Zhou, X.J., Pons-Estel, B., Witte, T., de Ramón, E., Bae, S.C., Barizzzone, N., Sebastiani, G.D., Merrill, J.T., Gregersen, P.K., Gilkeson, G.G., Kimberly, R.P., Vyse, T.J., Kim, I.L., The Italian Collaborative Group, The German Collaborative Group, The Spanish Collaborative Group, The Argentinian Collaborative Group, The SLEGEN Consortium, D'Alfonso, S., Martin, J., Harley, J.B., Criswell, L.A., **Wakeland, E.K.**[#], Alarcón-Riquelme, M.E.[#], Mohan, C.[#] Kallikreins as disease genes in lupus and anti-glomerular antibody-induced nephritis. *Journal of Clinical Investigation* 119:911-923, 2009. (*co-first authors, [#]co-senior authors).

165. Li, Q.Z., Zhou, J., Yang, R., Yan, M., Ye Q., Liu K., Liu S.X., Shao X.L., Li L., **Wakeland E.K.**, Mohan C. The lupus susceptibility gene kallikrein down-modulates antibody-mediated glomerulonephritis. *Genes and Immunity* 10:503-508, 2009.

166. Namjou, B., Gray-McGuire, C., Sestak, A.L., Gilkeson, G.S., Jacob C.O., Merrill J.T., James J.A., **Wakeland E.K.**, Li, Q.Z., Langefeld C.D., Ziegler J., Moser K.L., Kelly J.A., Kaufman K.M., Harley J.B. Evaluation of C1q genomic region in minority ethnical groups of lupus. *Genes and Immunity* 10:517-524, 2009.
167. Wang, A., Fairhurst, A.M., Tus, K., Subramanian, S., Liu, Y., Lin, F., Igarashi, P., Zhou, X.J., Batteux, F., Wong, D., **Wakeland, E.K.**[#], Mohan, C.[#] (#co-senior authors). CXCR4/CXCL12 hyperexpression plays a pivotal role in the pathogenesis of lupus. *J. Immunol.* 182:4448-58, 2009.
168. Lu, R., Vidal, G. S., Kelly, J. A., Delgado-Vega, A. M., Howard, X. K. Macwana, S. R., *et al.* Genetic associations of LYN with systemic lupus erythematosus. *Genes and Immunity*, 10-397-403, 2009.
169. Guo, L., Deshmukh, H., Lu, R., Vidal, G. S. *et al.* Replication of the BANK1 genetic association with systemic lupus erythematosus in a European-derived population. *Genes and Immunity* 10:531-538, 2009.
170. Fairhurst, A.M., Xie, C., Fu, Y., Wang, A., Boudreaux, C., Zhou, X.J., Cibotti, R., Coyle, A., Connolly, J., **Wakeland, E.K.**[#], Mohan, C.[#] (#co-senior authors). Type I interferons produced by resident renal cells may promote end-organ disease in autoantibody-mediated glomerulonephritis. *J. Immunol.* 183:6831-6838, 2009.
171. Li, Q.Z., Zhou, J., Lian, Y., Zhang, B., Branch, V.K., Carr-Johnson, F., Karp, D.R., Mohan, C., **Wakeland, E.K.**, Olsen, N.J. Interferon signature gene expression is correlated with autoantibody profiles in patients with incomplete lupus syndrome. *Clin. Exp. Immunol.* 159:281-291, 2010.
172. Cannons, J.L., Qi, H., Lu, K.T., Dutta, M., Gomez-Rodriguez, J., Cheng, J., **Wakeland, E.K.**, Germain, R.N., Schwartzberg, P.L. Optimal germinal center responses require a multistage T cell:B cell adhesion process involving integrins, SLAM-associated protein, and CD84. *Immunity* 32:253-265, 2010.
173. Wang, A., Batteux, F., and **Wakeland, E.K.** The role of SLAM/CD2 polymorphisms in systemic autoimmunity. *Curr Opin Immunol* 22:706-714, 2010.
174. Aktan, I., Chant, A., Borg, Z.D., Damby, D.E., Leenstra, P.C., Lilley, G.W., Petty, J., Suratt, B.T., Teuscher, C., **Wakeland, E.K.**, Poynter, M.E., and Boyson, J.E. Slam haplotypes modulate the response to lipopolysaccharide in vivo through control of NKT cell number and function. *J Immunol* 185:144-156, 2010.
175. Wang, A., P. Guilpain, Chong, B.F., Chouzenoux, S., Guillevin, L., Du, Y., Zhou, X.J., Lin, F., Fairhurst, A.M., Boudreaux, C., Roux, C., **Wakeland, E.K.**, Davis, L.S., Batteux, F., and Mohan, C. Dysregulated expression of CXCR4/CXCL12 in subsets of patients with systemic lupus erythematosus. *Arthritis Rheum* 62: 3436-46, 2010.
176. Rai, E. and **Wakeland, E.K.** Genetic predisposition to autoimmunity - what have we learned?, *Seminars in Immunology, Epub, 2011.*
177. Li, Q.Z., Karp, D.R., Quan, J., Branch, V.K., Zhou, J., Lian, Y., Chong, B.F., **Wakeland, E.K.**, and Olsen, N.J. Risk factors for ANA positivity in healthy persons. *Arthritis Res Ther* 13, R38, 2011.