

CURRICULUM VITAE
The University of Alabama at Birmingham
School of Medicine

PERSONAL INFORMATION

Name: John Douglas Mountz, PhD, MD

Citizenship: United States of America

RANK/TITLE Professor
Department of Medicine
Division of Clinical Immunology and Rheumatology

Business Address: The University of Alabama at Birmingham
1825 University Boulevard, SHEL 302
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700 South 19th Street, Room 3-R-21
Birmingham, AL 35233

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HOSPITAL APPOINTMENTS:
Veterans Administration Hospital

PROFESSIONAL CONSULTANTSHIPS:
Consultant Scientist, Marion Merrell Dow, Inc.; Kansas City, MO
Consultant Scientist, Wyeth-Ayerst, Princeton, NJ
Consultant Scientist, LXR Biotechnologies, Inc., Richmond, CA
Consultant Scientist, Amgen, Inc., Thousand Oaks, CA
Consultant Scientist, Sankyo, Ltd., Tokyo, Japan
Consultant Scientist, Schering A-G, Richmond, CA

EDUCATION:

Institution	Degree	Field	Year
Wright State University, Dayton, OH	BS		1969
Michigan State University, East Lansing, MI	MS	Physics	1971
Michigan State University, East Lansing, MI	PhD	Physics	1974
Ohio State University, Columbus, OH	MD	Medicine	1978

LICENSURE:

Physician, North Carolina
Physician, Alabama

BOARD CERTIFICATION:

American Board of Rheumatology - 2006
American Board of Internal Medicine - 1982

POSTDOCTORAL TRAINING:

Year	Degree	Institution
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1974-1975	Postdoctoral Fellow Medical School Scholarships	National Science Foundation, East Lansing, MI William Craig-Orr and Mary Black-Orr Scholarship in Medicine Kenneth Wiseman Scholarship in Medicine
1978-1981	Internship and Resident	Internal Medicine Residency Program, North Carolina Baptist Hospital
1981-1982	Rheumatology Fellow	Bowman Gray School of Medicine
1982-1987	Medical Staff Fellowship	National Institutes of Health; National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases
1988-present	Director	Transgenic Mouse Facility, Birmingham Veterans Administration Medical Center

ACADEMIC APPOINTMENTS:

Year	Rank/Title	Institution
2003-present	Senior Scientist	UAB Comprehensive Cancer Center
2002-present	Goodwin-Warren D. Blackburn, Jr. Professor of Medicine	
2000-present	Co-Director	UAB Bone Center
1999-present	Co-Director	UAB Center for Aging
1997-present	Staff Physician	Birmingham Veterans Administration Medical Center
1994-present	Professor of Medicine	Division of Clinical Immunology and Rheumatology, UAB
1993-present	Scientist	Medical Center Joint Departments, UAB Center for Aging
1991-present	Professor	Cellular & Molecular Biology, Department of Microbiology, UAB
1987-1997	Staff Physician	Birmingham VAMC
1991-1994	Associate Professor	Division of Clinical Immunology and Rheumatology, UAB
1987-1991	Assistant Professor	Division of Clinical Immunology and Rheumatology, UAB
1986-1987	Guest Researcher	National Institutes of HealthNIHA & Musculoskeletal and Skin Disease
1985-1987	Research Assistant	Professor of Medicine Uniformed Services University of Health Sciences

AWARDS/HONORS:

2003	Max Cooper Award for Excellence in Research
2002	One of 50 Arthritis Foundation "Heroes" to make outstanding contributions to Rheumatology in the past 50 years.
2002	J. W. & Virginia Goodwin-Warren D. Blackburn, Jr. Research Chair in Rheumatology
1992	Howard and Martha Holley Research Prize in Rheumatology
1986	Senior Rheumatology Scholar Award
1974-1975	William Craig-Orr and Mary Black-Orr Scholarship in Medicine
1974-1975	Kenneth Wiseman Scholarship in Medicine
1971	BS, Summa Cum Laude
1971	MS, Summa Cum Laude
1978	Phi Eta Tau - Scholastic Honor Society

MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES:

1997	American Society of Gene Therapy (ASGT)
2007-2010	Immunology Committee, American Society of Gene Therapy
1997	Association of American Physicians (AAP)
1992	American Society of Clinical Investigation (ASCI)
1992	Southern Medical Association (SMA)
1990	American Federation for Clinical Research (AFCR)
1990	American Society of Internal Medicine (ASIM)

- 1988 Southern Society of Clinical Investigation (SSCI)
- 1986 American College of Rheumatology (ACR)
- 1985 American Association of Immunology (AAI)
- 1978 American College of Physicians (ACP)

COUNCILS AND COMMITTEES:

- Arthritis and Prostaglandins Research Challenge
- 1990 Advisory Meeting, Searle Pharmaceuticals, Chicago, IL. May 3-6.
- 1990 Veterans Administration Transgenic Mouse Facility Scientific Advisory Committee
- 1990 Veterans Administration Medical Center Transgenic Mouse Subcommittee
- 1991 Veterans Administration Animal Use Committee
- 1991 Department of Medicine Research Committee
- 1991 Admissions Committee, School of Medicine, University of Alabama at Birmingham, Department of Medicine, MD, PhD. Training Program
- 1993-1996 Research Council of American College of Physicians
- 1993 Geriatrics Research Center Advisory Committee
- 1993 Chairman, Adhesion Molecule and Cell Matrix Center Director Search Committee
- 1993-1994 Committee for Revision of American College of Rheumatology Patient Care Summary
- 1994 ACR Research and Education Foundation Research Committee
- 1994 Co-Chair, National Institute on Aging Task Force on Immunology and Aging
- 1994 Co-Chair, National Institute of Allergy and Infectious Diseases Task Force on Immunology and Aging
- 1995-1998 Veterans Administration Merit and Career Development Review Committee; Immunology Study Section
- 1996 Chairman, Department of Medicine Research Committee
- 1996 UAB/Sankyo Co., Ltd., Program for Rheumatic Diseases Oversight Committee
- 2003 Organizational Committee for 2nd International Conference on Functional Genomics of Ageing, April 18 - May 1, 2004
- 2004 Co-Chair, "Leukocyte Trafficking in Inflammatory Disease," AAI Annual Meeting, April 18, 2004, Washington, DC
- 2004 Chair, "The Cellular and Molecular Mechanisms of Immunosenescence," Conference on Promoting the Health of an Aging Population, 2004 Annual Meeting of the Gerontological Society of America, November 22, 2004
- 2004 - 2006 Veterans Administration Merit Review Subcommittee for Immunology
- 2005 Member, National Institute of Diabetes and Digestive and Kidney Deases Special Emphasis Panel. March 23, 2005, Washington, DC
- 2005 Member, Rheumatoid Arthritis Center of Research Translation Advisory Committee, University of Tennessee Health Sciences Center at Memphis
- 2007 Judge, Third Annual "National Young Rheumatology Investigator Forum," March 28, 2007, San Destin, FL

UNIVERSITY ACTIVITIES:

- 1990 Veterans Administration Transgenic Mouse Facility Scientific Advisory Committee
- 1990 Veterans Administration Medical Center Transgenic Mouse Subcommittee
- 1991 Department of Medicine Research Committee
- 1991 Veterans Administration Animal Use Committee
- 1991 Admissions Committee, School of Medicine, University of Alabama at Birmingham, Department of Medicine, Medical Scientist Training Program
- 1993 Geriatrics Research Center Advisory Committee
- 1993 Chairman, Adhesion Molecule and Cell Matrix Center Director Search Committee
- 1996 Chairman, Department of Medicine Research Committee
- 1996 UAB/Sankyo Co., Ltd., Program for Rheumatic Diseases Oversight Committee
- 1999-present Co-Director, UAB Center for Aging, Basic Biology of Aging

2001-present Co-Director, UAB Bone Center
2003 Committee Member, Gwen McWhorter Endowed Chair in Geriatric Medicine
2004 Advisory Committee, Innate and Adaptive Microbial Immunity in IBD
2005 UAB Department of Medicine Immunology Review, January 18-19, 2005
2005 Chair, UAB Center for Metabolic Bone Disease Executive Review Committee
2005 Member, UAB Strategic Planning Workgroup on Development and Senescence
2005 Member, UAB Strategic Planning Workgroup on Regenerative Medicine

Editorial Board Memberships:

2007-present Open Aging Journal
2006-present Current Aging Science
2001-present Mechanisms of Aging and Development
2001-present Journal of Gene Therapy
1996-2000 Cellular Immunology
1988-1993 Arthritis & Rheumatism

Review Committees:

- Journal of Immunology
- American Journal of Medicine
- Arthritis Research Campaign
- Autoimmunity
- Blood
- Antiviral Research
- Clinical Chemistry
- Current Aging Science
- Experimental Cell Research
- Fonds zur Forderung der wissenschaftlichen Forschung, Austria
- Genes and Immunity
- Gastroenterology
- Human Immunology
- International Immunology
- Immunity
- Immunology Today
- Journal of Clinical Immunology
- Journal of Rheumatology
- Science
- Transgenes and Transgenic Mice
- Transgenic Technology
- FASEB Journal
- Neurology of Aging
- Veterans Affairs Department, Medical Research Service, 1995-1997.
- Veterans Affairs Department, Office of External Reviews
- Veterans Administration Health Services and Research Administration, Career Development Program Applications, Study Section, National Arthritis
- FASEB Burrows Welcome Fund, Visiting Professor Committee, 1999-2002.
- The Arthritis and Rheumatism Council, 1997.
- The Wellcome Foundation, 1997-1998.
- Immunological Sciences Study Section, 1997-2000.
- Cell Death and Differentiation, 1999.
- Circulation, University of Texas Health Science Center-Houston, Texas.
- Gene Therapy, University of Pittsburgh, Pittsburgh, PA.

- Chairman, NIH Review PO1 Committee. "Program Project T Cell Senescence in Aging," Los Angeles, CA, Dorshkind Site Visit, 2001.
- NIH Concept Review Committee for the Use of Aged Spontaneous or Genetically Engineered Mutant Mice, 2001.

Ad Hoc Reviewer:

- Immunological Sciences Study Section, NIAID, June 9-11, 1993.
- The Israel Science Foundation, Israel Academy of Science and Humanities, Jerusalem, Israel, March, 1996-1999.
- Life Sciences & Medicine, Israel Science Foundation

Site Visits:

- Special Project Reviewer for NIH - U. California at San Diego Multipurpose and Musculoskeletal Disease Center (MAMDC) 1991.
- Special Project Reviewer for NIH, U. Texas at Dallas, MAMDC, 1991.
- Special Project Reviewer, Boston University School of Medicine, March, 1996.
- Reviewer, Cornell Aging Program Project, December, 1996.
- Reviewer, University of Michigan Aging Program Project, February, 1998.
- Reviewer, "Cellular Senescence and Control of Proliferation" Allegheny University of the Health Sciences, Philadelphia, PA, July 28, 1998.
- Chairman, UCLA; Program Project in Aging Committee, September, 2000.
- Chairman, "Cause and Reversal of Age-Induced Thymic Involution" Dorshkind Site Visit, Los Angeles California, December 12-13, 2000.
- Special Project Reviewer for NIH, Bethesda, MD, June 10, 2002.
- Special Project Reviewer for NIH, University of Pittsburgh, PA, March 3, 2003.

MAJOR RESEARCH INTERESTS:

My major research interest is in understanding of autoimmune disease. My laboratory currently focuses on understanding of the BXD2 mouse model of arthritis and autoimmune disease. This mouse produces increased levels of Th17, high levels of IL-17 which promote development of spontaneous germinal centers (GC). The GC B cells exhibit increased levels of-activation induced cytidine deaminase (AID), which result in autoantibodies with increased somatic hypermutation and pathogenicity. Genetic approaches to regulation of autoimmune disease are being analyzed using both adenovirus and AAV gene therapy, and by mutant mice including AID-DN mutation, in several knock-out genes on the BXD2 background.

TEACHING EXPERIENCE:

- 1969-1971, Instructor in Physics, Wright State University
- Interviewer for admission to UAB Department of Medicine MD-PhD program. Medical Education Committee
- Teaching of Medical Students, Physical Diagnosis - 4 hours/week, 8 weeks/year
- Attending, General Medicine, Birmingham VAMC, 1 month/year; Rheumatology Grand Rounds Lecturer; Rheumatology Teaching Conference Lecturer; Rheumatology Team Rounds Lecturer
- Teaching of Medical Residents: Attending, General Medicine, Birmingham VAMC, 1 month/year; Attending, BVAMC Rheumatology Clinic ½ day/week
- Participation in pre-doctoral and post-doctoral training
- Participation as faculty in Extramural Funding Training Grant
- CIRID Training Grant
- MD/PhD Program Training Grant
- Cellular and Molecular Biology Training Grant

- Preceptor, Chairman - Qualifying Exam Committee (Brent Passer, 12/89; Tamara Redman, 12/90)
- Awarded the David E. Wells Graduate Fellowship Award for Excellence on Qualifying Exam (Milson Luce 05/93)
- Member Qualifying Exam Committee (Robin Dzialo, 12/91; Fengyu Fhu, 01/92; Laurel Karr, 02/95)
- Semi-finalist, Samuel B. Barker Award for Excellence in Research by a Graduate Student, "Increased Expression of IFN- α and IL-6 by Hyperactive Plasmacytoid Dendritic Cells in BXD2 Autoimmune Mice," UAB Department of Medicine Trainee Research Symposium (John Wang, 3/07)
- 2007 Arthritis Foundation Research Conference Oral Presentation: (Xin Xu, 4/22/07)
- 2007 Arthritis Foundation Research Conference Oral Presentation: (John Wang, 4/21/07)
- Preceptor CMB Lab Rotation (Ken Toth, 9/87-12/87; Pam Kozlowski, 9/88-12/88 Chen Dong, 1/90-03/90; Godwin Job 4/05-7/05; John Yi, 1/07)
- Graduate Committee:
 - Pritish Pawar, Pathology Graduate Student
 - Yang Li, Cell Biology Graduate Student, Received PhD in 2005
 - Yan Zhang, Cell Biology Graduate Student
 - Anand C. Annan, Pathology Graduate Student
- Mentor: Christopher Adams, MD (1989-1990)
 - Timothy Peters, MD (1991-1992)
 - Tong Zhou, MD (Post-doctoral Fellow, 1989-1992)
 - Jianguo Wu, PhD (CMB Graduate Student, 1991-1993)
 - Jianhua Chang, MD, PhD (Postdoctoral Fellow, 1991-1996)
 - Weila Wang, PhD (Postdoctoral Fellow, 1993-1994)
 - Yichun Jian (CMB Graduate Student, 1992-1993)
 - Xiao Su (CMB Graduate Student, 1993-1996)
 - Martin Fleck, MD (Postdoctoral Fellow 1995-1998)
 - Toru Tatsuta, PhD (Postdoctoral fellow, 1995-1997)
 - Hui-Chen Hsu, PhD (Postdoctoral Fellow, 1995-1999)
 - Fred J. Herndon, MD, PhD (Medical Resident, Postdoctoral Fellow, 1995-1996)
 - Winfried Wintersberger, MD (Postdoctoral Fellow, 1995-1997)
 - Huang-Ge Zhang, DVM (Postdoctoral Fellow 1996-1998)
 - Gwan Gyu Song, MD, PhD (Postdoctoral Fellow, 1997-1999)
 - Xiuwu Zhang, PhD (Postdoctoral Fellow, 1998-1999)
 - Kimie Suzuki, DDS, PhD (Postdoctoral Fellow, 2000-2002)
 - Xin Xu, PhD (Postdoctoral Fellow 2000-2004)
 - Yasunori Matsuki, MD, (Postdoctoral Fellow, 1999-2001)
 - Zhongyu Liu, MD, PhD (Postdoctoral Fellow, 2001-2004)
 - Christopher Dodd, (Predoctoral Fellow, 2000-2001)
 - Lina Li, MD, PhD (Department of Pathology Graduate Student, 2000-2002)
 - Xiaohong Wang, MD (Postdoctoral Fellow, 2001-2005)
 - Jian Chen (Department of Pathology Graduate Student, 2003-2005)
 - (Postdoctoral Fellow, 2005-present)
 - Yalei Wu (Department of Pathology Graduate Student, 2004-2005)
 - Godwin Job (CMB Graduate Student, 2005-2007)
 - John Wang (MD/PhD Graduate Student, 2005-present)
 - Zang Song (MD, Rheumatology Fellow, 2007-present)

MAJOR LECTURES AND VISITING PROFESSORSHIPS:

- "Therapies Which Reduce Lymphadenopathy and Autoimmunity of MRL/*lpr* Mice: Implications for the Pathogenesis and Treatment of RA and SLE." New York Academy of Sciences, November 12, 1987.
- "The Role of T Cells in Autoimmune Disease." Lowe Southeastern Conference on Rheumatic Diseases, September 28, 1990.
- "Update on Arthritis Research." Arthritis Foundation Dinner, 3rd Humanitarian Award Ceremony, September 21, 1990.
- "A Superantigen Model for Arthritis in $V_{\beta}8$ TCR Transgenic *lpr/lpr* Mice." Keystone Symposia on the Molecular Biology and the Immunopathogenesis of Rheumatoid Arthritis, March 16, 1991.
- "Loss of T-cell Anergy in Autoimmunity Mice." Bar Harbor Symposia on MHC and TCR in Autoimmune Disease, October 18-20, 1991, Bar Harbor, Maine.
- "T Cell Tolerance Defects in Transgenic Mice." Holley Symposia at Regional ACR Meeting, March 13, 1992.
- "ETn Mutation in *Fas* CD2-*fas* Correction of *lpr* Mice." Keystone Symposia on the Molecular Biology and the Immunopathogenesis of Rheumatoid Arthritis, March 16, 1993.
- "TCR Transgenic Mice and CD2-*Fas* Transgenic Mice." Autoimmunity Symposium, Bergen, Norway, April 23, 1993.
- "Cellular and Molecular Mechanisms of Self Tolerance Loss in Autoimmunity." Medical Grand Rounds, University of Texas Health Science Center, San Antonio, Texas. November 11, 1993.
- "Correction of T Cells and Autoimmune Disease in CD2-*fas* Transgenic Mice." FASEB Symposium, Saxton River, VT. June 14, 1993.
- "SEB Induced Arthritis and T Cell Tolerance Loss." International Conference in Rheumatology Arthritis. Stanford University Medical Center, August 25, 1993.
- "T Cell Receptor Transgenic Autoimmune Mice." Oxford Conference on Autoimmunity. Trinity College, Oxford, England, September 20, 1993.
- "T Cell Tolerance Loss and Aging." Gordon Conference on The Biology of Aging, Casa Sirena (Oxford), CA, February 27 - March 4, 1994.
- "Scleroderma and Apoptosis Defects." The Third International Workshop on Scleroderma, Chicago, Illinois, June 12-14, 1994.
- "Autoimmunity, Apoptosis Defects and Retrovirus." The First International Symposium of Cellular Approaches to the Control of HIV Disease, Paris, France, July 11-12, 1994.
- "Abnormalities of the Fas Apoptosis Pathway: Applications to Autoimmune Disease, Aging and AIDS." Workshop on Apoptosis and Autoimmunity, Aguascalientes, Mexico, February 5-9, 1995.
- "Fas & Nur77 Mediated Apoptosis." National Cancer Institute's "Differentiation, Growth and Death of Cells" Seminar, Oakland, California, February 20-21, 1995.
- "The Role of Apoptosis in Autoimmunity." Proceedings from the American Academy of Allergy and Immunology International Conference. New York City, NY, February 24 - March 1, 1995.
- "Programmed Cell Death and the Immunology of Aging." Task Force on Immunology and Aging. National Institute of Health, Bethesda, Maryland, March, 1995.
- "Defective Expression of Hematopoietic Cell Protein-Tyrosine-Phosphatase (HCP) Blocks Fas-Mediated Apoptosis." Keystone Symposium, Tammaron, Colorado, March 5-11, 1995.
- "The Role of Programmed Cell Death as an Emerging New Concept for the Pathogenesis of Autoimmune Diseases." New Frontiers in the Immunoregulation of Allergic & Autoimmune Diseases, Phoenix, Arizona, March 23-26, 1995.
- "Soluble Fas and Apoptosis Defects in SLE." 4th International Conference on SLE, Jerusalem, Israel, March 26-31, 1995.
- "Mechanisms of Defective Apoptosis and T Cell Tolerance Loss in Autoimmune Mice." Cambridge Healthtech Institute "Commercial Applications of Apoptosis," Boston, Massachusetts, May 1-3, 1995.

- "Apoptosis Genes and Autoimmune Disease." The Year in Medicine Clinical Research Meeting, Rheumatology Symposium, San Diego, California, May 5-8, 1995.
- "Lifespan Studies of Transgenic Mice Expressing the Fas Apoptosis Gene." Gordon Research Conferences "Biology of Aging," Lucca, Italy, May 7-12, 1995.
- "Genetic studies of Murine Lupus." Workshop on the Search for Lupus Genes, NIH, Bethesda, MD, May 15-17, 1995.
- "Role of Fas in T Cell Development, Tolerance and Autoimmunity." 9th International Congress of Immunology Pathogenesis of Autoimmune Diseases Meeting, San Francisco, California, July 23-29, 1995.
- "Aging and Apoptosis." 48th Annual Scientific Meeting of The Gerontological Society of America, Los Angeles, California, November 15-19, 1995.
- "Autoimmune Disease Related to Genetic Defects in Apoptosis." Visiting Professor at the University of California at Los Angeles, November 16, 1995.
- "Defective Fas and Nur77 Apoptosis: Different Pathways of Autoimmune Disease." Sixth International Conference on Lymphocyte Activation and Immune Regulation, University of California-Irvine, Newport Beach, California, February 2-4, 1996.
- "Nur77 and TNF-R: Interactions with Fas Apoptosis." Medicine Grand Rounds, Uniformed Services University of the Health Sciences, Bethesda, Maryland, February 7, 1996.
- "Rheumatic Disease and Aging." The University of Alabama at Birmingham, Center for Aging Conference on Multidisciplinary Perspectives on Aging: Progress and Priorities. Birmingham Alabama, March 9, 1996.
- "Apoptosis and Autoimmune Disease." Biomedicine '96: Medical Research from Bench to Bedside, Washington, DC, May 3-6, 1996.
- "Application of Apoptosis to Crohn's Disease and Ulcerative Colitis." Annual meeting of the Ulcerative Colitis and Crohn's Disease Foundation, Tampa, FL, September 26-29, 1996.
- "Current Immunologic Concepts in the Sjogren's Syndrome." Sjogren's Syndrome - A Multidisciplinary Problem Forum, Birmingham, AL, December 14, 1996.
- "Macrophage Activation-induced Cell Death is Mediated by Fas Ligand and TNF." 4th International Congress on the Immune Consequences of Trauma, Shock and Sepsis Mechanisms and Therapeutic Approaches. Munich Germany, March 4-8, 1997.
- "Altered T-Cell Apoptosis During Aging: Implications to Immunosenescence and Defective Immune Responses with Aging." 27th Annual Meeting of the Israel Immunological Society, Ramat-Gan Israel, May 7-8, 1997.
- "Autoimmune Disease Due to Apoptosis Defects: Role of Fas, TNF Receptor and Apoptosis Signaling Pathways." 27th Annual Meeting of the Israel Immunological Society, Ramat-Gan Israel, May 7-8, 1997.
- "Chronic Inflammation Results from Defective Fas and TNF-RI Apoptosis." International Conference on Immunopathology of Mucous Membranes and Exocrine Glands, Bergen, Norway, May 13-16, 1997.
- "Apoptosis Defects Associated with Autoimmune Disease in Aging." University of Texas Medical Branch at Galveston Seminar Series. Galveston, Texas, May 29, 1997.
- "Defective Apoptosis and Immunosenescence; Analysis of the Mouse Werner's Syndrome Gene." Basic Biology of Aging Retreat, Twin Pines Conference Center, Sterrett, Alabama, June 6-7, 1997.
- "Fas Ligand Gene Therapy for Induction of Specific T Cell Tolerance." 5th International Conference on Tolerance and Immune Regulation. San Diego CA, September 11-14, 1997.
- "Apoptosis and Autoimmunity." American Academy of Allergy, Asthma and Immunology (AAAAI), Washington, D.C., March 13-18, 1998.
- "Advanced Research Seminar: Fas, Cell Death and Its Role in Autoimmunity." American Academy of Allergy, Asthma and Immunology (AAAAI), Washington, DC, March 13-18, 1998.

- "Analysis of Apoptosis for Laboratory Technologist; Relevance to Clinical Disease." American Medical Lab investigators, Montreal Quebec Canada, July 9-11, 1998.
- "Apoptosis and Pathological Cell Death in the Endocrine System". Proceedings of the 1998 Hormone Research Conference (Volume 54). 1998 Annual Recent Progress in Hormone Research Conference, in Stevenson, Washington, August 1-5, 1998.
- "Gene Therapy Approaches to the Treatment of Autoimmune Disease." Gene Therapy of Arthritis and Related Disorders 1st International Meeting. National Institutes of Health, Bethesda, MD, December 2-3, 1998.
- "MCMV Model of Sjogren's Syndrome in Fas-mutant B6-lpr/lpr Mice. Salivary Glands & Saliva." Gordon Research Conference, Ventura, CA, February 21-26, 1999.
- "Apoptosis Defects Predisposing to Arthritis." Invited Lecture, Regenbun Medical Center, Regensburg, Germany, September 5-6, 2000.
- "Rheumatology and Autoimmune Disease." Chairman, SSCI Symposium, New Orleans LA, March 3, 2001.
- "Applications of Adeno-Associated Virus (AAV) to Rheumatoid Arthritis." Avgen, Inc., Oakland, CA, February 20, 2001.
- "Akt and Other Co-Stimulatory Pathways that Predispose to Autoimmune Disease." Amgen, Inc., Thousand Oaks, CA, February 21, 2001.
- "Apoptosis Defects in Autoimmune Disease." American Academy of Allergy, Asthma and Immunology 57th Annual Meeting, Grand Seminar 2503, "Autoimmune Mechanisms: Advances in Diagnosis and Therapy", March 17, 2001.
- "Biological and Gene Therapy for Autoimmune Disease." Avigen, Inc. Alameda, CA, February 21, 2001.
- "Improvements in the Development and Application of AAV gene Therapy to Autoimmune Disease." Amgen, Inc. Thousand Oaks, CA, February 23, 2001.
- "Apoptosis Defects in Autoimmune Disease." Autoimmune Mechanisms: Advances in Diagnosis and Therapy, American Academy of Allergy, Asthma & Immunology, 57th Annual Meeting, New Orleans, LA, March 17, 2001.
- "Age-Related Defects in T Cells." Invited Lecture, NIH Symposium on Future Directions for Development and Understanding of the Aging Process, Louisville, KY, April 24, 2001.
- "Use of Genetically Modified APC for Arthritis Therapy. Induction of Synovial Apoptosis by dn-Akt." Gene Therapy of Arthritis and Related Disorders 2nd International Meeting, Mountpillier, France, May 17, 2001.
- "Analysis of the Genetics of Immunosenescence Using BXD RI Strains of Mice." Invited Lecture, Louisiana State University Medical Center, New Orleans, La, September 7, 2001.
- "Genetic Basis of T-cell Senescence." Invited Lecture, MCP Hahnemann University School of Medicine, Philadelphia, PA, May 1, 2002.
- "Genetic Analysis of T-cell Senescence Using BXD RI Strains of Mice." Invited Lecture, Second International Conference on Immunology and Aging, Washington, DC, June 15, 2002.
- "Aging and T-cell Senescence: from Ptolemy to Copernicus." Invited Lecture, UAB Center for Aging Seminar Series, Birmingham, UAB, Nov 1, 2002.
- "Principle of Gene Therapy Overcoming the Host Immune Response." Invited Lecture, Department of Pathology, Division of Human Gene Therapy, Birmingham, UAB, April 14, 2003.
- "Regulation of the Immune Response in the Rheumatic Disease." Invited Lecture, Rheumatology Fellows' Conference, Birmingham, UAB, April 25, 2003.
- "Application of T Cell Imaging and Genetics for Understanding Complex Immune Responses." Invited Lecture; Berlex Biosciences, San Francisco, CA, July 10, 2003.
- "Leukocyte Trafficking in Inflammatory Disease," Chair, AAI Block Symposium, Experimental Biology 2004, Washington, DC, April 18, 2004.
- "Genetic Complexity of the Immune Response to Ad and AAV Gene Therapy," Invited Lecture, Gene Therapy Center Research Forum, Birmingham, AL, March 2, 2004.

- "Ageing of the Immune System," Invited Lecture, 2nd International Conference on Functional Genomics of Ageing, Crete, Greece, May 1, 2004.
- "Using BXD Recombinant Inbred Strains of Mice as a Model for Genetic and Other Analysis," Advanced Human Genetics, UAB, November 18, 2004.
- "T-cell Senescence: Of Mice and Man," Gerontological Society of America Annual Meeting, November 22, 2004.
- "Complex Genetic Regulation of the Immune Response to Ad and AAV Gene Therapy," University of California, Los Angeles, CA, December 3, 2004.
- "Complex Genetic Regulation of the Immune Response to Gene Therapy," Advances in Molecular and Cellular Pathology, UAB, January 6, 2005.
- "Molecular Mechanisms on the Development of Multi-reactive Pathogenic Autoantibodies in BXD2 Mice," Rheumatology Grand Rounds, University of Tennessee, Memphis. October 11, 2005, Memphis Tennessee.
- "ALPS and TRAPS," Rheumatology Fellows Conference, UAB, January 20, 2006.
- "To B or not to B: Targeting of Activation Induced Cytidine Deaminase as a Novel B Cell Therapy for Autoimmune Disease and Arthritis," Keynote Speaker. 10th Anniversary Inflammation and Immune Diseases Drug Discovery and Development Summit. New Brunswick, New Jersey, March 20-21, 2006.
- "BXD2 recombinant inbred mice as a novel model of autoimmune disease," Genomics Seminar Series. UAB. April 14, 2006.
- "BXD2 Mice: A better mouse model for rheumatic disease," Rheumatology Fellows Conference, November 3, 2006.
- "Activation-induced cytidine deaminase as a novel therapeutic target for autoimmune Disease," Wake Forest University School of Medicine, December 14, 2006.
- "Unique patterns of CD8 T cell Apoptosis in nonagenarians," Louisiana State University, December 6, 2006

GRANT SUPPORT: PAST

1R01 AR42547 (Mountz, PI) 09/30/93 - 05/31/99

NIH

FAS Antigen and Ligand: Functional Characterization

Goals of this study were to 1) Identify the Fas ligand using a purified Fas fusion protein; 2) Determine if the *fas* ligand is defective in C3H-*gld/gld* mice; 3) Characterize the apoptosis defect in *lpr* and *gld* mice; and 4) Produce a fas-ligand (Fas-L) transgenic C3H-*gld/gld* mouse.

Sankyo, Inc. (Koopman, PI) 10/01/94 - 09/30/02

Center for Rheumatic Diseases Research

Project: Control Points for Removal of Autoreactive T Cells: Tolerance Induction and Apoptosis

Goals for this grant were to 1) Determine if T cell tolerance loss can be prevented by blocking interaction of CD28/CTLA4 with B7 in three TCR transgenic *lpr/lpr* models of autoimmunity; and 2) Determine if T cell tolerance loss can be prevented by Fas-mediated apoptosis in three TCR Transgenic *lpr/lpr* models of autoimmunity. (Mountz, Project PI)

N01-AR-6-2224 (Mountz, PI) 10/01/96 - 09/30/01

NIH

Gene Therapy to Correct Arthritis in Autoimmune Mice

The main goal of this proposal was to devise gene therapy utilizing an apoptosis gene to correct development of arthritis in Fas deficient *lpr/lpr* mice.

NIH/STTR 01/02/99 - 01/01/00

Mandal Med, Inc.

NT-3 Gene Therapy for Spinal Cord Injury

The main goals of this proposal were to: 1) Transfect freshly isolated Sertoli cells and cells from established cultures with rAAV/ β -galactosidase, and compare the relative viability in allogenic rats; 2) Prepare rAAV/hNT-3 and transduce Sertoli cells to secrete hNT-3; determine extent and duration of secretion *in vivo*; and 3) Perform bilateral lesion surgery of the dorsal spinal cord with extensive resections to remove corticospinal, rubrospinal, and cerulospinal projections. Graft Sertoli cells secreting hNT-3 to acute lesion cavities, and analyze functional recovery and corticospinal axon growth.

No number (Mountz, PI) 03/01/02 - 02/28/04
UAB HSF-GEF

Facility of Genetic Mapping of Complex Traits in the Mouse

The major goal of this project is to provide UAB investigators with a set of C57BL/6 X DBA/2 (BXD) recombinant inbred (RI) strains of mice to study the genetics of complex traits.

P30 AR48311 (Kimberly, PI) 01/01/02 - 12/31/04
NIH / NIAMS

Rheumatic Disease Core Center

P & F 3: T-Cell AICD Defects in CII Induced Arthritis of DBA/1J Mice (Zhang, Project PI)

The goal of this study is to identify the T-cell subpopulation that is responsible for the initiation of arthritis in the collagen II (CII)-induced DBA.1j mouse model of the disease. (Mountz, Investigator)

R21 AR49331 (Zhang, PI) 09/23/02 - 05/31/04
NIH / NIAMS

Role of Ubiquitin Regulated F-Bx07 Protein in RA

The main goal of this grant is to determine the biological effects of a novel F-box-containing protein (F-bx07) with the emphasis on its role in the regulation of proliferation of rheumatoid synovial fibroblasts. (Mountz, Investigator)

Merit Review (Mountz, PI) 10/01/99 - 09/30/04
Veterans Administration

Fas Induced Apoptosis in Autoimmune Disease

The main goal of this grant is to determine the mechanisms by which defective expression of the Fas apoptosis molecule causes autoimmunity in *lpr* mouse model in SLE.

No Assigned Number (Koopman, PI) 10/01/02 - 09/30/04
Sankyo Co., Ltd.

Center for Rheumatic Diseases Research

Project 2: Control Points for Regulation of Synovial Cell Apoptosis

The main goals of this grant are to 1) Determine if T cell tolerance loss can be prevented by blocking interaction of CD28/CTLA4 with B7 in three TCR transgenic *lpr/lpr* models of autoimmunity and 2) Determine if T cell tolerance loss can be prevented by Fas-mediated apoptosis in three TCR Transgenic *lpr/lpr* models of autoimmunity. (Mountz, PI, Project 2)

R01 AI42900 (Mountz, PI) 10/01/98 - 12/31/04
NIH/NHLBD

Ablation of the Immune Response to Adenovirus Vectors

The main goals of this proposal are to 1) Determine if the mouse CD11b promoter can specifically up-regulate FasL in APCs infected with adenovirus with extensive DNA deletions, 2) Determine if ex-vivo infected APC with adenovirus with extensive DNA deletions can be used to induce T-cell tolerance to adenovirus vector and transgene antigens, 3) Determine if survival of normal APCs will be prolonged using the Fas apoptosis inhibitor CrmA gene and soluble TNF-receptor to enhance APC and

adenovirus survival and tolerization after infection with adenovirus and 4) Develop adenovirus with modified tropism to target FasL expression to antigen presenting cells for *in vivo* tolerance induction.

R01 AI46990 (Mountz, PI) 10/01/99 - 06/30/05

NIH

In Vivo Image Analysis of Autoreactive T Cells

The main goal of this project is to utilize the mouse whole-body reference device to correlate high resolution 4.7 T MRI images with high sensitivity nuclear medicine images to determine if these techniques will enable analysis of human T cells from patients with autoimmune disease.

P30 AR50948 (Elmets) 08/01/04 - 04/30/06

NIH

Skin Diseases Research Center

Subproject 4: QTL Analysis of Atopic Dermatitis

The goal of this project is to determine genetic loci that regulate chronic atopic dermatitis in an Oxazolone mouse model.

Role: PI, Project 4

1 RO1 AG11653 (Mountz, PI) 08/01/93 - 02/28/07

NIH

Defective Fas Apoptosis During Aging

The main goals of this grant are to 1) Determine if increased numbers of autoreactive T cells are present in the thymus and peripheral lymphoid tissues of old TCR transgenic mice compared to young TCR transgenic mice; 2) Determine if expression of *fas* in CD28 and T cells from young and aged mice *in vitro* and *in vivo*; 3) Determine if high *fas* expression during aging can inhibit loss of T cell self-tolerance and restore normal apoptosis. All of these proposed experiments are based on the possibility that the *fas* apoptosis gene can be considered as a candidate longevity assurance gene (LAG). This can be studied in the CD2-*fas* transgenic mice.

GRANT SUPPORT: CURRENT

Merit Review (Mountz, PI) 10/01/04 - 09/30/09

Veterans Administration \$150,000

Autoantibody-induced Arthritis and Autoimmune
Disease in BXD2 Mice

The overall goal of this proposal is to identify the autoantibodies responsible for the pathogenesis of lupus and arthritis in a new autoimmune BXD2 mouse model and to use a unique antigen presenting cell (APC) cell-gene therapy to induce an antigen-specific B- or T-cell tolerance response to prevent the development of lupus, arthritis, or both in these mice.

P30 AR46031 (McDonald, PI) 05/01/06 - 04/30/11

NIH \$400,000

UAB Core Center for Basic Skeletal Research – Core A

The main goal of this Core Center is to stimulate innovative, interdisciplinary approaches to the identification and characterization of the key mechanisms underlying bone loss and regeneration and the systemic and local factors that regulate these processes. (Mountz, Co-Director, Core A)

P30 AR48311 (Carter, PI) 01/01/02 - 03/31/08

NIH / NIAMS (Unfunded 1-Year Extension)

Rheumatic Disease Core Center

This is a multidisciplinary program designed to enable application of innovative, scientifically rigorous approaches and state-of-the-art techniques to important questions in biomedical sciences, thereby laying the basis for advances in the diagnosis and treatment of patients with arthritis and musculoskeletal diseases. (Mountz, Co-Director)

No Assigned Number (Kimberly, PI) 10/01/06 - 09/30/08
UAB/Sankyo Program for Rheumatic Diseases and Cancer Research \$125,000

Project 2: Validation of AID as a Novel Therapeutic Target for RA and Autoimmune Disease (Mountz, PI)

The goal of this study is to validate AID as an important molecule and drug target associated with the development of pathogenic autoantibodies in human RA and autoimmune disease patients.

PO1 AF022064 (Jazwinski, PI) 09/30/04 - 06/30/09
NIH / Louisiana State University

Determinants of Human Longevity and Healthy Aging

Project 2: Gene Expression and Glucose Metabolism in Aging T Lymphocytes \$59,230

The goal of this project is to test the hypothesis that glucose metabolism plays a central role in healthy immunity by examining the relationships between healthy aging, glucose metabolism and immune function. (Mountz, Investigator, Project 2)

1 R43 CA123768-01 (Kovesdi) 05/01/07 – 10/31/07
NIH/Vector Logics \$ 29,655

A Shielded Conditionally Replicative Adenovirus Vector

The ultimate goal of this study is development of an adenovirus vector capable of gene transfer while providing concealment for the vector from the immune system.

No Number Assigned (Mountz) 07/01/07 – 06/30/09
American College of Rheumatology \$185,185

Novel IL-17-induced Germinal Center Formation and Arthritis-inducing Antibody

The goals of this study are to determine if IL-17 can induce autoantibody formation leading to arthritis independent of its known effects on systemic inflammation and to determine if IL-17 mediates the formation of autoreactive germinal center by decreasing, rather than inducing chemotaxis, of CD4 T cells and B cells through upregulation of regulators of G-protein signaling (RGS) protein gene expression and function.

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1. "Methods, Compositions and Screening Assays Relating to Autoimmune Disease," John Mountz and Jianguo Wu. Filed July 23, 1993. USSN 08/097,826.
2. "Secreted Fas Antigen," Mountz, Cheng and Zhou. Filed December 23, 1994. USSN 08/371,263.
3. " Δ NURR77 Transgenic Mouse," Mountz, Zhou and Cheng. USSN 08/852,173; Provisional Patent Filed May 13, 1996. U.S. Patent #5,981,829.
4. "Method For Augmentation of Gene Expression," John Mountz, Huang-Ge Zhang, Tong Zhou, Carl K Edwards, III. Filed November 7, 1997. USSN 09/187,952; D6053CAN, Patent #6419919.
5. "Fas Ligand Expressing Antigen Presenting Cells for Tolerance Induction," John Mountz, and Tong Zhou. Filed May 14, 1998. PCT/US/98/10073, Patent #20020049404.
6. "Controlling Immune Response to Specific Antigens," John Mountz, David Curiel, Huang-Ge Zhang. USN PCT/US98/10381, Patent #6689605.

7. "Human Fas Gene Promoter Region," John Mountz, Jianhua Cheng, Changdan Liu, and William Koopman. Awarded March 30, 1999. Patent #5,888,764.
8. "Production of a Fas Ligand Gene Therapy to Induce Tolerance to Adenovirus, Transplant and Autoimmune Disease," John Mountz, David Curiel and Huang-Ge Zhang. Filed November 22, 1999. USSN 09/424,281.
9. "Novel Methods of Producing High Titer Recombinant Adeno-Associated Virus"; D6134P; Mountz, et al. Issued 05/07/2002. Patent #6383794; PCT/US99/19333.
10. "Application of the Retroviral Transposon to Autoimmune Disease," (Pending) USSN 07/961,164.
11. "Akt and Regulation of RA Synovial Fibroblast Apoptosis," John Mountz. Filed Apr 16, 2002. USSN 10/989,722; PCT/US02/11820, Patent #20060104951, EP 1414500.
12. "Inhibition of TNF Prolongs Gene Therapy and Decreases Inflammation," D6053EPO, John Mountz et al., PCT/US98/23821 (European Patent Application No. 98957705.1, Filed June 26, 2003).
13. "Reversion Mutation Assay: Methods in Making Reversion Mutation Assay and Methods of Use Thereof," John Mountz et al, Patent pending, 2007

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