

**Jacen Shannon Maier Moore, PhD, MA, MT (ASCP), CHT**

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### **Education**

- Aug, 2003 -May, 2006** **University of Oklahoma Health Science Center** – College of Medicine, Department of Pathology (Doctor of Philosophy in Experimental Pathology)
- Jun, 2000 - Jun, 2001** **University of Nebraska Medical Center** – College of Allied Health, Division of Medical Technology (Bachelor of Science in Medical Technology)
- Jan, 1993 - Jan, 1996** **University of Nebraska at Omaha** – Graduate College, Departments of Biology and Chemistry (Master of Arts in Biology with Specialization in Molecular and Cancer Biology)
- Aug, 1988 - Dec, 1992** **University of Nebraska at Omaha**-College of Arts and Sciences (Bachelor of Science in Biology with Specialization in Microbiology)

### **Work Experience**

- Aug, 2013 to Present** **University of Texas at El Paso, Assistant Professor of Clinical Laboratory Sciences**-College of Health Sciences, Department of Clinical Laboratory Sciences, El Paso, TX.

**Research Emphases:** Regulatory mechanisms of Heme Oxygenase 1 in Lupus Nephritis and utilization of recombinant monoclonal antibody technology for clinical applications

**Teaching Emphases:** Clinical Chemistry and Clinical Investigation

### **Responsibilities:**

- Author grant proposals and peer-reviewed manuscripts
- Present findings at peer-reviewed institutional venues and scientific meetings
- Manage personnel and budgets
- Maintain regulatory compliance for human and laboratory animal research studies
- Manage and coordinate ongoing scientific programs within the laboratory
- Develop, perform and interpret complex scientific experiments
- Mentor undergraduate/graduate students and scientific staff
- Serve on University committees
- Teach undergraduate Clinical Laboratory Sciences Students

**Jun, 2006 to Aug, 2013 University of Oklahoma Health Sciences Center, Research Fellow,**  
College of Medicine, Department of Endocrinology and Diabetes,  
Oklahoma City, OK.

**Oklahoma Medical Research Foundation,** Research Assistant  
Member (Professor), Arthritis and Clinical Immunology, Oklahoma  
City, OK.

Research Projects:

- Developing a humanized Xenograft transplant model of Sjögren's syndrome
- Proteomic analysis of antigen-specific T cells in SLE and Sjögren's syndrome using human HLA Class II-specific tetramers
- Regulatory mechanisms of Heme Oxygenase 1 in Lupus Nephritis
- Cellular mechanisms of autoantibodies in the development of Sjögren's syndrome and systemic lupus erythematosus

Responsibilities:

- Author grant proposals and peer-reviewed manuscripts
- Present findings at peer-reviewed institutional venues and scientific meetings
- Manage personnel and budgets
- Maintain regulatory compliance for human and laboratory animal research studies
- Manage and coordinate ongoing scientific programs within the laboratory
- Develop, perform and interpret complex scientific experiments
- Mentor undergraduate/graduate students and scientific staff

**Jun, 2001 - Mar, 2004 OU Medical Center – HLA Transplant Technologist, Oklahoma City, OK**

- Perform serological and molecular typing (high and low resolution), Panel Reactive Antibody (PRA) identification, and compatibility/cross match studies for solid organ, bone marrow and cadaveric donor programs
- Familiar with serological and molecular quality control techniques for ASHI and CAP compliance
- Work jointly with physicians, coordinators and other transplant programs to facilitate patient care and utilize hospital network systems for information sharing and resulting/retrieving patient data

**Sep, 1999 - Apr, 2001 University of Nebraska Medical Center, Research Technician I - Omaha, NE**

- Performed experiments examining fluid/electrolyte balance and regulation in diabetes and heart failure
- Extracted and evaluated intracellular calcium flow, catecholamine concentrations and regulatory peptide analysis in rat brain tissue.
- Determined metabolic enzyme activity analysis in isolated muscle tissues

**Sep, 1998 - Feb, 2000 Metropolitan Community College, Instructor-Division of Math, Science and Engineering - Omaha, NE**

·Prepared and conducted complete laboratory and lecture courses in medical microbiology to nursing and allied health students.

**Jan, 1996 - Aug, 1998 El Paso Community College, Instructor Division of Arts and Sciences - El Paso, TX**

·Prepared and conducted complete quarterly laboratory and lecture courses in medical microbiology to nursing and allied health students and lecture courses in general biology for students majoring in the life sciences.

### **Publications**

1. Michael P. Bachmann, Joanne K. Gross, **Shannon Maier**, Timothy F. Gross, Jennifer L. Workman, Judith A. James, A. Darise Farris, Bettina Jung, Claudia Franke, Karsten Conrad, Marc Schmitz, Cordula Büttner, Holger Bartsch, Jill P. Buyon, Imre Semsei, John B. Harley and E. Peter Rieber, Autoimmunity as a Result of Escape from RNA Surveillance, *Journal of Immunology*, 2006 Aug 1, 177(3):1698-707. PMID: PMC2206679
2. Zi-jian Pan, Karen Davis, **Shannon Maier**, Michael Bachmann, Xana Kim-Howard, Catherine Keech, Tom Gordon, James McCluskey, A. Darise Farris, Neo-epitopes are required for immunogenicity of the La/SS-B nuclear antigen in the context of late apoptotic cells, *Clinical and Experimental Immunology*, 2006 Feb, 143(2):237-48. PMID: PMC1809581
3. Nadine L. Dudek\*, **Shannon Maier**\* (\*Co-first author), Zhen-Jun Chen, Philip A. Mudd, Stuart I. Mannering, David C. Jackson, Weiguang Zeng, Catherine L. Keech, Kassie Hamlin, Zi-jian Pan, Karen Davis-Schwarz, Jennifer Workman-Azbill, Michael Bachmann, James McCluskey and A. Darise Farris, T Cell Epitopes of the La/SS-B Autoantigen in Humanized Transgenic Mice Expressing the HLA Class II Haplotype DRB1\*0301/DQB1\*0201, *Arthritis and Rheumatism*, 56(10), October, 2007, 3387-3398.
4. Imre Semsei, **Shannon Maier**, Jennifer Workman-Azbill, László Urbán, Kathy Moser, Margit Zeher, Michael Bachmann, A. Darise Farris, Detection of a rare oligo(A) repeat tract mutation (8As-7As) in the sequence encoding the La/SS-B autoantigen, *Analytical Biochemistry*, 370, 2007, 47-53. PMID: PMC2597489
5. Malani Shankar, Jamee Nixon, **Shannon Maier**, Jennifer Workman, A. Darise Farris, Carol Webb, Anti-nuclear antibody production and autoimmunity in transgenic mice that over-express the transcription factor Bright, *Journal of Immunology*, 2007 Mar 1, 178(5):2996-3006. PMID: PMC2705967
6. **Shannon Maier**, Joanne Gross, Kassie Hamlin, Julie Maier, Jennifer Workman, Xana Kim-Howard, Trenton Schoeb, Zoltan Laszik, Darise Farris; Proteinuria of Non-autoimmune Origin in Wild-type FVB/NJ mice, *Comparative Medicine*, 2007: 57(3) 255-266.
7. Brian Poole, Tim Gross, **Shannon Maier**, John Harley, Judith James, Lupus-like autoantibody developments in rabbits and mice after immunization with EBNA-1 fragments, *Journal of Autoimmunity*, 2008 Dec; 31(4):362-371.

8. **Shannon Maier**, Sherry Hubbell and R. Hal Scofield, Detection of La/SS-B by Western Blot using Nanogold-Tagged Antibodies and Silver Enhancement (Book Chapter), Humana Press, Methods in Molecular Biology: Protein Blotting and Detection, 2009, Vol. 536, Chapter 50, 491-497.
9. Zi-jian Pan\*, **Shannon Maier**\* (\*Co-first author), Karen Schwarz, Jennifer Azbill, Shizuo Akira, Satoshi Uematsu and A. Darise Farris, TLR7 modulates anti-nucleosomal autoantibody isotype and renal complement deposition in mice exposed to syngeneic late apoptotic cells, *Annals of Rheumatic Disease*, 2010 Jun;69(6):1195-9. Epub 2009 Aug 11.
11. Christopher J Lessard, **Jacen Maier-Moore**, John A Ice, Courtney G Montgomery, R. Hal Scofield, Kathy L Moser, “Genetics of Sjögren’s Syndrome”. Sjögren’s Syndrome: Diagnosis and Therapeutics. Ramos-Casala M, Stone JH, Moutsopoulos HM (eds.), Springer 2012, pgs 11-31.
12. Paola Cruz-Tapias, Adriana Rojas-Villarraga, **Shannon Maier-Moore**, Juan-Manuel Anaya, Meta-analysis of the association between HLA class II and primary Sjögren’s syndrome susceptibility, *Autoimmun Rev.* 2012 Feb;11(4):281-7. Epub 2011 Oct 7.
13. Kurien, Bijji, D’souza, Anil, Igoe, Ann, Lee, Yun Jong, **Maier-Moore, Jacen**, Gordon, Tom, Jackson, Michael, Scofield, R., Immunization with 60 kD Ro peptide produces different stages of pre-clinical autoimmunity in a Sjögren’s syndrome-model among multiple strains of inbred mice, *Clin Exp Immunol.* 2013 Jul;173(1):67-75. doi: 10.1111/cei.12094. doi: 10.1111/cei.12094. 2013 Feb 22.
14. Kristi Koelsch, Amr Sawalha, **Jacen S. Maier-Moore**, Jonathan Wren, GFP Affects T Cell Activation and Cytokine Production Following *in vitro* Stimulation, *PLoS One*, 2013;8(4):e50068. doi: 10.1371/journal.pone.0050068. Epub 2013 Apr 5.
15. **Jacen S. Maier-Moore**, Carlos Cañas, Gabriel Tobón, Sherry Hubbell, Juan-Manuel Anaya and R. Hal Scofield, The CCR5-Δ32 polymorphism (rs333) is not associated with primary Sjögren’s syndrome or Type I Diabetes in a Latin American Population, *Clinical Immunology*, 2013, DOI: 10.1016/j.clim.2013.05.010, Epub 2013 May 24.
16. Rasmussen A, Ice JA, Li H, Grundahl K, Kelly JA, Radfar L, Stone DU, Hefner KS, Anaya JM, Rohrer M, Gopalakrishnan R, Houston GD, Lewis DM, Chodosh J, Harley JB, Hughes P, **Maier-Moore JS**, Montgomery CG, Rhodus NL, Farris AD, Segal BM, Jonsson R, Lessard CJ, Scofield RH, Sivils KL. Comparison of the American-European Consensus Group Sjogren's syndrome classification criteria to newly proposed American College of Rheumatology criteria in a large, carefully characterised SICCA cohort. *Ann Rheum Dis.* 2013 Aug 22. doi: 10.1136/annrheumdis-2013-203845. [Epub ahead of print]
17. Christopher J. Lessard, He Li, Indra Adrianto, John A. Ice, Astrid Rasmussen, Kiely M. Grundahl, Jennifer A. Kelley, Corinne Miceli-Richard, Simon Bowman, Sue Lester, Johan G. Brun, Lasse G. Gøransson, Erna Harboe, Joel M. Guthridge, Kenneth M. Kaufman, Deborah S. Cunninghame Graham, Martha E. Grandits, Abu N. Nazmul-Hossain, Ketan Patel, Adam J. Adler, **Jacen S. Maier-Moore**, A. Darise Farris, Michael T. Brennan, James A. Lessard, James Chodosh, Rajaram Gopalakrishnan, Kimberly S. Hefner, Glen D. Houston, Andrew J.W. Huang, Pamela J. Hughes, David M. Lewis, Lida Radfar, Michael D. Rohrer, Donald U. Stone, Timothy J. Vyse, Patrick M. Gaffney,

- Judith A. James, Roald Omdal, Marie Wahren-Herlenius, Gabor G. Illei, Torsten Witte, Roland Jonsson, Maureen Rischmueller, Gunnel Nordmark, Wan-Fai Ng for UK primary Sjögren's syndrome registry, Xavier Mariette, Juan-Manuel Anaya, Nelson L. Rhodus, Barbara M. Segal, R. Hal Scofield, Courtney G. Montgomery, John B. Harley, Kathy L. Moser Sivils, A genome-wide association study establishes multiple susceptibility loci for Sjögren's syndrome, Accepted, Nature Genetics.
18. Anil D'Souza, Skler P. Dillon, Biji T. Kurien, Benjamin F. Bruner, Timothy Gross, Judith A. James, Ira N. Targoff, **Jacen S. Maier-Moore**, Isaac T.W. Harley, Heng Wang, R. Hal Scofield, Prolidase deficiency breaks tolerance to lupus-associated antigens, Submitted to Arthritis Care and Research.
  19. Biji T. Kurien, **Jacen S. Maier-Moore**, Lydia Kao, Kenneth M. Kaufman, John A. Ice, Adam J. Adler, Juan-Manuel Anaya, Michael T. Brennan, James Chodosh, Deborah S. Cunninghame Graham, Anil D'souza, Rajaram Gopalakrishnan, Joel M. Guthridge, Kimberly Hefner, Glen D. Houston, Andrew J. W. Huang, Pamela Hughes, Gabor G. Illei, Judith A. James, Roland Jonsson, Jennifer A. Kelly, Jay Kumar, , James A. Lessard, David M. Lewis, Shibo Li, Xianglan Lu, , Xavier Mariette, Joan T. Merrill, Corinne Miceli-Richard, Courtney G. Montgomery, Wan-Fai Ng, Gunnel Nordmark, Per Eriksson, Roald Omdal, Lida Radfar, Astrid Rasmussen, Nelson L. Rhodus, Maureen Rischmueller, Michael Rohrer, Benjamin A. Rybicki, Barbara M. Segal, Donald U. Stone, Timothy J. Vyse, Marie Wahren-Herlenius, Torsten Witte, Christopher J. Lessard, Kathy L. Moser, Patrick M. Gaffney, John B. Harley, R. Hal Scofield, X chromosome dose and the sex bias of systemic lupus erythematosus and Sjögren's syndrome: increased risk is found among 47,XXX women.
  20. **Jacen S. Maier-Moore, PhD**, Kenneth Smith, PhD, A. Darise Farris, PhD, Lida Radfar, DDS, Kristi Koelsch, PhD, Biji Kurien, PhD, Kathy Sivils, PhD, Judith A. James, MD, PhD and R. Hal Scofield, MD, Plasmablast specificity reflects clinical presentation and serology in Sjögren's syndrome, Submitted to Arthritis and Rheumatism, Aug, 2013.
  21. **Jacen S. Maier-Moore**, Christopher G. Horton, Shirley A. Matthews, Anthony Confer, Christina Lawrence, K. Mark Coggeshall and A. Darise Farris, IL-6 Deficiency Ameliorates Inflammation and Autoimmunity in B6.*Slc1.Yaa* mice, 2012, Manuscript In progress.
  23. Jane C. Yaciuk, Yujun Pan, Karen Schwarz, **Jacen S. Maier-Moore**, Zi-jian Pan, Anthony C. Confer, Stanley D. Kosanke, Christina Lawrence and A. Darise Farris, Anti-La/SS-B autoimmunity mediates lung disease associated with defective thymic selection of natural regulatory T cells, Manuscript In Progress.
  24. **Jacen S Maier-Moore**, Britt Nakken, Karen E. Schwarz, Philip A. Mudd, Zijian Pan, Catherine Keech, James McCluskey and A. Darise Farris Dominant and Subdominant T Cell Determinants of the La/SS-B Autoantigen Shape Tolerance to Nuclear Autoantigens, Manuscript In Progress.
  25. **Jacen S. Maier-Moore**, Biji T. Kurien, Anil D'Souza, Lee Bockus, Sima Asfa, Yaser Dorri, Sherry Hubbell, Olga Yeliosof, David Obeso, Roland Jonsson, R. Hal Scofield, Adoptive transfer of IgG antibodies against 60-kDa Ro 274 peptide deposits in salivary glands but does not induce pathological salivary gland dysfunction similar to Sjögren's syndrome, Manuscript in Progress.

## Ongoing Research and Other Support

### Inactive

P20GM103456-09 Gaffney (PI) 05/01/10-08/09/13  
Pilot: Molecular Mechanisms and Genetics of Autoimmunity: Ro and La-specific T cells in Sjögren's syndrome--The goal of this project is to characterize the Ro/SS-A- and La/SS-B-specific Th cell compartment in Sjögren's syndrome patients.

P30AR053483 James (PI) 12/01/10-8/31/11  
Pilot: Oklahoma Rheumatic Disease Research Cores Center: Pathogenic B cells in Sjögren's syndrome-The goal of this project was to characterize the antibody response in salivary glands and peripheral blood of Sjögren's syndrome patients.

T32 AI007633-09 Cunningham (PI) 09/01/08-08/31/10  
Immunology Training Grant: The goal of this project was to evaluate the antibody-specific responses in salivary glands and peripheral blood of Sjögren's patients

### Other

NIH-Clinical Loan Repayment Program 08/01/09-07/31/11  
Project-Xenograft transfer model of Sjögren's syndrome

### Abstracts/Posters

"Salivary gland plasmablast monoclonal antibody specificity reflects clinical presentation and serology in lupus patients with secondary Sjögren's syndrome" Jacen S. Maier-Moore, PhD, Kenneth Smith, PhD, A. Darise Farris, PhD, Lida Radfar, DDS, Kristi Koelsch, PhD, Biji Kurien, PhD, Kathy Sivils, PhD, Judith A. James, MD, PhD and R. Hal Scofield, MD, 10<sup>th</sup> International Congress on SLE, Buenos Aires, April, 2013.

"Production of monoclonal antibodies from IgG antibody secreting cells in the salivary glands of Sjögren's syndrome patients"; **J. Shannon Maier-Moore, PhD**, Kenneth Smith, PhD, A. Darise Farris, PhD, Judith A. James, MD, PhD and R. Hal Scofield, MD, International Symposium on Sjögren's syndrome, Athens, Greece, Sept, 2011.

"T cell skewing influences epitope selection and responsiveness in a peptide-immunization model of Sjögren's syndrome"; **Shannon Maier**, A. Darise Farris, Hal Scofield, International Symposium on Sjögren's syndrome, Brest, France, Sept, 2009.

"Meta-analysis of the association between HLA and primary Sjögren's syndrome susceptibility," JM Anaya, P Cruz-Tapias, **S Maier**, A Rojas-Villarraga, International Symposium on Sjögren's syndrome, Brest, France, Sept, 2009.

“CCR5-Delta 32 (rs333) is associated with primary Sjögren’s syndrome but not systemic lupus erythematosus in a cohort from the OMRF Sjögren’s syndrome Research Clinic and the OMRF Lupus Family Registry and Repository”; **Shannon Maier**, Sherry Hubbell, Chris Lessard, Kathy Moser, Juan-Manuel Anaya, Hal Scofield, International Symposium on Sjögren’s syndrome, Brest, France, Sept, 2009.

“CCR5-Delta 32 (rs333) is associated with primary Sjögren’s syndrome but not systemic lupus erythematosus in a cohort from with type 1 diabetes and Sjögren’s syndrome in a Latin American Population”; **Shannon Maier**, Sherry Hubbell, Chris Lessard, Kathy Moser, Juan-Manuel Anaya, Hal Scofield, International Symposium on Sjögren’s syndrome, Brest, France, Sept, 2009.

“IL-6-Dependent Features of Sjögren’s Syndrome in B6.Sle1yaa Mice”; **Shannon Maier**, Shirley Matthews, Christina Monroe-Lawrence, Darise Farris, American College of Rheumatology, Oct, 2008.

“Novel T Cell Epitopes of the La/SS-B Autoantigen in Mice Expressing Human Transgenic Class II DRB1\*0301/DQB1\*0201”; **Shannon Maier**, Philip Mudd, Kassie Hamlin, Zi-Jian Pan, Karen Davis-Schwarz, Jennifer Workman-Azbill, Zhenjun Chen, Michael Bachmann, Catherine Keech, Jim McCluskey, Darise Farris, American College of Rheumatology, Nov, 2006.

“Is there any evidence of T cell Epitope spreading or T cell cross reactivity in Experimental Ro/La Autoimmunity?”; Linzi Jiang, Zi-Jian Pan, Philip Mudd, Karen Davis, **Shannon Maier**, Ken Kaufman, Judith James, A. Darise Farris, Summer Student Symposium, July, 2005.

“Mutant La/SS-B Induces T and B Cell Neopeptides that may Initiate Autoantibody Formation in Human SLE Patients”; **Shannon Maier**, Philip Mudd, Jennifer Workman, Joanne Gross, Kassie Hamlin, Michael Bachmann, Bahram Namjou, Johnv Harley, A Darise Farris, Ardmore Retreat, Arthritis and Immunology, 2005.

“Induction of Fetal Loss and Antibodies to Cardiolipin and  $\beta$ 2GPI after Immunization with Apoptotic Cells Exposed to Heterologous Serum”; Zi-jian Pan, Karen Davis, **Shannon Maier**, Michael Bachmann, A. Darise Farris, American College of Rheumatology (ACR), October, 2004.

“Syngeneic Thymocytes in Late Apoptosis Induce DC Maturation in vivo and anti-DS DNA Antibodies after Subcutaneous Injection in A/J Mice”; Zi-jian Pan, Karen Davis, **Shannon Maier**, Jennifer Workman, A. Darise Farris, ACR, October, 2004.

“Somatic Mutation: A Mechanism of Initiation for Autoimmunity?”; **Shannon M. Maier**, Jody Gross, Max Siebold, Jennifer Workman, Zijian Pan, Dr. Darise Farris, Dr. Judy James, Michael Bachmann, Dr. Joel Guthridge, OCAST Scientific Convention, April, 2004.

“Establishing the Heparin Therapeutic Range Following Integration of New Coagulation Instrumentation”; **Shannon M. Maier**, Meeting of the Nebraska Society for Clinical Lab Science, April, 2001, and the Student Research Forum for the School of Allied Health Professions, May, 2001.

“NO Regulates NMDA-Mediated Intracellular Calcium Flow in Parvocellular Neurons of the Paraventricular Nucleus”; **Shannon M. Maier**, Yi-Fan Li and Dr. Kaushik P. Patel, Midwest Regional Biomedical Research Forum, February, 2001.

“Potentiated NMDA-Mediated Increases in RSND within the Parvocellular Nucleus of Rats with Heart Failure (HF)”; Yi-Fan Li, Alison Vollmer, **Shannon Maier**, Hongfeng Shi and Dr. Kaushik Patel, Society for Neuroscience, November, 2000.

“The Development of a Rapid-Screen Analysis for Three Putative Virulence-Related Genes in *Trichomonas vaginalis*”; **Shannon M. Maier** and Dr. Michael Lehker, ASM National Meeting, May 1998.

## Seminars

“Identification and Classification of Antigen-Specific Lymphocytes in Systemic Lupus Erythematosus and Sjögren’s Syndrome”; Invited lecture, University of Texas at El Paso, Department of Clinical Laboratory Sciences, February, 2013.

“Immunochemical Methods and their Use in Clinical Diagnosis”; Invited lecture, University of Texas at El Paso, Department of Clinical Laboratory Sciences, February, 2013.

“The Curious Case of Sudor Anglicus: A Renaissance Medical Mystery”; Departmental Seminar, Arthritis and Clinical Immunology, Oklahoma Medical Research Foundation, May, 2012.

“Identification and Classification of Ro/SS-A and La/SS-B-specific CD4+ T cells in Sjögren’s Syndrome”; CoBRE External Review, Oklahoma City, OK, February, 2011.

“Current Studies in Systemic Lupus Erythematosus and Sjögren’s syndrome”; Visiting Lecture, Royal College of Surgeons of Ireland, Dublin, Ireland, April, 2011.

“Identification and Classification of Ro/SS-A and La/SS-B-specific CD4+ T cells in Sjögren’s Syndrome”; CoBRE External Review, Oklahoma City, OK, February, 2010.

“The CD8+ leukocyte population is significantly altered in the peripheral blood of patients with primary Sjögren’s, partial Sjögren’s and Overlap syndromes”; University of Oklahoma Health Sciences Center Immunology Retreat, Oklahoma City, OK, February, 2010.

“T Cell Epitopes of Human La/SS-B in an HLA DR3/DQ2-transgenic Mouse Model”; Invited lecture, University of Padua, Padua, Italy, Department of Transplant Medicine, October, 2007.

“Mouse Models in the Investigation of Lupus Etiology”; Doctoral Defense, OMRF and OUHSC, Oklahoma City, OK, May, 2006.

“FVB/NJ Mice: A Novel Model of Minimal Change Nephrotic Syndrome?” Departmental Seminar, Arthritis and Immunology Department, OMRF, Oklahoma City, OK, Jan, 2006.

“Neoepitopes + La (SS-B) + B & T Cells=PhD: The equation for the Perfect Dissertation” Departmental Seminar, Arthritis and Immunology Department, OMRF, Oklahoma City, OK, May, 2005.

“Mutant La/SS-B Induces T and B Cell Neoepitopes that May Initiate Autoantibody Formation in Human SLE Patients”, Department of Pathology Kimmelstiel Lecture, University of Oklahoma Health Science Center, Oklahoma City, OK, , February, 2005.

“Mice Transgenic for a Somatic Mutant Form of Human La Demonstrate Autoimmune Renal Immunopathology: a Renal Transplant Perspective”, Clinical Laboratory HLA Department Seminar, OU Medical Center, Oklahoma City, OK, March, 2004.

“Mice Transgenic for a Somatic Mutant Form of Human La Demonstrate Autoimmune Renal Immunopathology” Department of Pathology Kimmelstiel Lecture, University of Oklahoma Health Science Center, Oklahoma City, OK, February 2004.



“The Effects of Cyclosporine A and other Drug Conjugates on the Function of P-Glycoprotein in PC-12 Cells” Department of Biology, University of Nebraska-Omaha, Omaha, NE, January, 1996.

### **Theses and Dissertations**

- Murine Models in the Investigation of Lupus Etiology”-Doctoral Dissertation, 2006.
- The Effects of Drug Inhibitors on the Function of P-Glycoprotein in PC12 Cells”-Masters Thesis, 1996.

### **Awards**

- Graduate Student Association Research Grant
- Paul Kimmelstiel Lectureship Honorable Mention, Department of Pathology, University of Oklahoma Health Science Center, February 2005
- 2004-2005 OMRF Pre-doctoral Fellowship Awardee
- Paul Kimmelstiel Lectureship, Department of Pathology, University of Oklahoma Health Science Center, February 2004
- Beta Beta Beta Biological Honorary Society Membership
- Alpha Epsilon Lambda Honorary Society Membership

### **Service**

- Academic Misconduct Board 2012-Present  
University of Oklahoma Health Sciences Center

### **Memberships (Past and Present)**

- American Association for the Advancement of Science (AAAS)
- American Board of Histocompatibility and Immunogenetics (ABHI)  
Certified Histocompatibility Technologist (1048)
- American Society for Clinical Pathology (ASCP)  
Medical Technologist (214028)
- American Society for Microbiology (ASM)

### **Volunteer Work**

**United States Public Health Service (USPHS)**-Indian Health Service (Aberdeen Service Unit) – Winnebago Indian Hospital – Winnebago, NE

·Assist in all areas of the clinical lab including chemistry, hematology, microbiology, and urinalysis. Training in integrated clinic and 16-bed hospital with emphasis on rural Native American health. Participated in Diabetes Wellness Program for Winnebago Tribe as part of grant between UNMC and USPHS.

### **References**

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