

CURRICULUM VITAE

NAME: Stephen B. Pruett
TITLE: Professor
and Interim Associate Dean
for Research and Graduate
Studies

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Education

- 1976** B.S., Microbiology, Northwestern State University of Louisiana. Degree completed in 3 years with GPA > 3.9.
- 1980** Ph.D., Immunology, LSU School of Medicine in Shreveport, Shreveport, LA. GPA for courses, 4.0, including 1 year of courses in the M.D. curriculum. Dissertation: "Characterization of the Heterophile Transplantation Antigen System". Mentor: Michael Wolcott, Ph.D.
- 1980-1982** Postdoctoral Training, Immunology, UAB Medical School, Birmingham, AL. Mentor: J. Claude Bennett, M.D.
- 1990-1991** Sabbatical Leave, Immunotoxicology, Medical College of Virginia/Virginia Commonwealth University, Richmond, VA. Sponsor: Albert E. Munson, Ph.D.

Professional experience

- 1976-1980** Graduate Research Assistant, LSU School of Medicine in Shreveport. Mentor: Michael Wolcott, Ph.D.
- 1980-1982** Postdoctoral Research Fellow, University of Alabama in Birmingham, School of Medicine. Mentor: J. Claude Bennett, M.D.
- 1981-1982** Co-Director, UAB Hybridoma Core Facility.
- 1982-1984** Assistant Professor, Gardner-Webb College, Boiling Springs, NC.
- 1984-1989** Assistant Professor, Dept. of Biol. Sci., Mississippi State University.
- 1990** Visiting Associate Professor, Medical College of Virginia/Virginia Commonwealth University. Sponsor: A. E. Munson, Ph.D.
- 1990-1995** Associate Professor, Dept. Biol. Sci., Mississippi State University.
- 1991-1995** Associate Professor (joint appointment) Coll. Vet. Med., MSU.
- 1995-1997** Professor, Department of Biol. Sci., Mississippi State University.
- 1995-1997** Professor (joint appointment) College of Veterinary Medicine, MSU.
- 1997-2007** Professor, Dept. Cellular Biol. & Anatomy, LSUHSC, Shreveport, LA.
- 2001-2007** Graduate Coordinator, Dept. of Cellular Biol. & Anatomy.
- 2007** Acting Chairman, Dept. Cellular Biology & Anatomy, LSUHSC.
- 2007-2018** Professor and Head, Dept. of Basic Sciences, College of Veterinary Medicine, Mississippi State University, Mississippi State, MS 39762.
- 2008-2009** Interim Associate Dean for Research and Graduate Studies, College of Veterinary Medicine.
- 2018-present** Interim Associate Dean for Research and Graduate Studies, College of Veterinary Medicine, Mississippi State University

Professional Activities

Memberships:

American Association of Immunologists
Society of Toxicology (Immunotoxicology Specialty Section)
American College of Toxicology
Academy of Toxicological Sciences

Committees and other positions:

Organizing Committee for the South Central Chapter of the American Society of Microbiology Meeting, 1992
Chair of judging committee for McCluskey and Strawinski student awards at the regional ASM meeting, 1992
Chairperson, Immunotoxicology poster session, Annual Meeting of the Society of Toxicology, 1993
Councilor and Chair of Awards Committee, Immunotoxicology section, Society of Toxicology (1998)
Treasurer, South Central Chapter, Society of Toxicology (1998)
Vice-President Elect, South Central Chapter, Society of Toxicology (2000)
Vice President, South Central Chapter, Society of Toxicology (2001)
President, South Central Chapter, Society of Toxicology (2002-2003)
Secretary/Treasurer, Immunotoxicology Specialty Section, Society of Toxicology (2003-2004).
Vice President-Elect, Immunotoxicology Specialty Section, Society of Toxicology, (2005-2006).
Vice President, Immunotoxicology Specialty Section, Society of Toxicology, (2006-2007).
President, Immunotoxicology Specialty Section, Society of Toxicology (2007-2008).
Member (elected), Education Committee, Society of Toxicology (2008-2011).

Editorial Boards:

Journal of Immunology (2009-2013)
Toxicol. Sci. (2000-2015)
Toxicol. Appl. Pharmacol. (1997-present)
Int. Immunopharmacol. (2005-2010)
Alcohol (2007-present)
Int. J. Toxicol. (2002-2008)
J. Toxicol. Environ. Health (1992-2005)
J. Immunotoxicology (2003-2007)

Scientific Review Service:

Ad hoc reviews: *Int. J. Immunopharmacol.*, *Immunopharmacol.*, *Proc. Soc. Exp. Biol.*, *Toxicology*, *Bull. Environ. Contam. Toxicol.*, *J. Pharmacol. Exp. Ther.*, *Alcoholism Clin. Exp. Res.*, "Fundamental Immunology", 1994. *J. Immunol.*, *Toxicol. Lett.*, *Am. J. Physiol.*

Grant reviewer: Developmental Therapeutics Contract Review Group, NCI, 1993. Tox 1/ALTX 2/ALTX 4 Study Sections, NIH (October, 1993; February, 1994; October, 1994; February, 1995; February 1996; June 1996; October, 1996; June, 1998; October, 2001; June, 2002; October 2002; February 2003; October 2004); Site visit for Program Project Grant, 1999; Written reviews for ALTX 2 and 4, 2000; NIH Special Emphasis Panel, November 2001; VA intramural grants, 2000; Phillip Morris Extramural Research Grant Program, 2000; American Chemical Council Extramural Research Grant Program, 1997-present; NIOSH intramural site visit and grant reviews, 2001-2002. Ad hoc reviewer for AA-1 study section, June, 2005. Ad hoc reviewer for AA-1 study section, February, 2006. Ad hoc reviewer for NIEHS, May 2006. Ad hoc reviewer Innate Immunity and Inflammation Study Section, November 2006, Ad hoc reviewer for three sessions of the Systemic Injury by Environmental Exposure Study section, 2007-2008. Member of Innate Immunity and Inflammation IRG, October 2010-2014. Ad hoc reviewer for the Systemic Injury by Environmental Exposure Study Section, 2015, reviewer for phase II COBRE grants, March, 2016 and again in March 2017. Reviewer for INBRE grants, October 2018 and October 2019.

Other: Assisted the EPA in developing techniques for conducting quality assurance audits of funded projects. Hosted an audit team and participated in a quality assurance audit of my laboratory, September 1993. Served on EPA peer-review panel to critique two risk assessment documents, October-December 2013.

Honors and Awards

U S Air Force Summer Research Fellow, USAF School of Aerospace Medicine, Brooks AFB, Texas, 1987.

Mississippi State University Student Association Outstanding Faculty Member Award, 1989.
Sigma Xi Research Award, 1990.

NIH Senior Fellowship, for Sabbatical Leave, Medical College of Virginia, 1990.

Outstanding presentation award for “A multi-indicant model of immunosuppression by dexamethasone in B6C3F1 mice”. Presented by the Risk Assessment Specialty Section of the Society of Toxicology at the Annual meeting in Baltimore in 1995.

NIH Research Career Development Award (~\$70,000/year), 1995-2000.

Instructor in a continuing education course on apoptosis at the annual meeting of the Society of Toxicology, 1996.

Invited participant (one of 6) in writing White Paper delineating research priorities in immunotoxicology, sponsored by Chemical Manufacturer’s Association, Brussels, Belgium, October, 1997.

Chaired Symposium, “Ethanol: Lessons from a structurally simple, but functionally complex immunotoxicant” at the Annual Meeting of the Society of Toxicology, Philadelphia, March, 2000.

Paper of the Year for 2001, Immunotoxicology Specialty Section, Society of Toxicology, Nashville, TN, March 2002.

Outstanding Mentor, Awarded by Centenary College of Louisiana, 2005.

Fellow of the Academy of Toxicological Sciences (2005 to present).

Organized symposium at the Society of Toxicology Annual meeting, “Application of New Concepts in Immunology to Old Problems in Immunotoxicology” (2007).

Keynote speaker, Japanese Society of Immunotoxicology, Tokyo, Japan, September 2008.

Mississippi New Venture Challenge. Sponsor: Mississippi Technology Alliance. Third Place in the Pre-Revenue Division for new Mississippi Companies for Sano Chemical, 2012 (Presented to Jim Smith, Frank Austin, Shi-en Lu, and Stephen Pruett).

Innovate Mississippi, Winner of Best Start-up for 2013. Presented to Sano Chemical Co., (Jim Smith, Frank Austin, Shi-en Lu, and Stephen Pruett).

Outstanding Senior Immunotoxicologist Award, Society of Toxicology, presented at the Annual Meeting in Baltimore, in 2017.

Invited Lectures (Partial List):

- “The role of cyst(e)ine in survival and growth of murine lymphocytes in culture”. Eastern Regional Symposium on Mechanisms of Immunotoxicity, Williamsburg, VA., 1988.
- “Immunotoxicity of Organophosphorus Compounds”, Annual Meeting of the American Chemical Society, Boston, MA, 1990.
- “Indirect Immunotoxicity of Morphine”, Annual Meeting of the Society of Toxicology, Dallas, TX., 1991.
- “Effects of Acute Ethanol Treatment on the Immune System”, Dept. of Cellular Biology and Anatomy Seminar Series, LSU School of Medicine, 1992.
- “Immunological Effects of Ethanol in a Mouse Model for Binge Drinking”, Third Annual Alcohol and Drug Abuse - Immunology Symposium, Vail, CO, 1993.
- “Quantitative Relationships Between Immune Function Parameters and Host Resistance”, Eastern Regional Symposium on Mechanisms of Immunotoxicity, Virginia Beach, VA, 1993.
- “Ethanol-Induced Immunomodulation in a Binge Drinking Model: Evidence for More Than One Mechanism”, Seventh Congress of the International Society for Biomedical Research on Alcoholism, Gold Coast, Australia, 1994.
- “Effects of Ethanol on Cytokine Gene Expression and the Primary Humoral Immune Response in a Mouse Model for Binge Drinking”, Annual Meeting of the Research Society on Alcoholism, Maui, Hawaii, 1994.
- “Quantitative Modeling of Host Resistance in Immunotoxicity Risk Assessment”, U.S. Environmental Protection Agency, Research Triangle Park, NC, 1995.
- “Interspecies Immunotoxicity: Relative importance of the acquired and innate immune functions, Modulators of Immune Responses: Phylogeny of Immune Responses and Immunotoxicants, Breckenridge, CO, July, 1995.
- "Mechanisms of suppression of NK cell activity in a mouse model for binge drinking", School of Pharmacy, Washington State University, Pullman, WA, September, 1996.
- "Mechanisms of immunosuppression in a mouse model for binge drinking", Center for Environmental Medicine, New York University Medical School, April, 1997.
- “Ethanol induced apoptosis in the spleen”, Eastern Regional Symposium on Mechanisms of Immunotoxicity, Blacksburg, WV, September 1997.
- “Mechanisms of Immunosuppression by Ethanol”, Department of Pharmacology Seminar Series, LSUHSC, April, 1998.
- “Ethanol-Induced Immunotoxicity”, Department of Pharmacology and Toxicology Seminar Series, Michigan State University, February, 2000.
- “Quantitative aspects of immunosuppression by chemical stressors”, College of Veterinary Medicine, Oklahoma State University, September, 2000.

“Apoptosis in Immunotoxicology: Role of Caspases, Continuing Education Course, Society of Toxicology Annual Meeting, March, 2002.

“Apoptosis Assessment by Flow Cytometry”, Continuing Education Course, American College of Toxicology, Washington DC, November, 2003.

“A Block at the toll-gate: Suppression of toll-like receptor signaling as a mechanism of ethanol-induced suppression of innate immunity”, Alcohol and Immunology Interest Group Meeting, Loyola University, Chicago, IL, November, 2003.

“Immunological parameters and host resistance”, ILSI-Europe Workshop on Evaluating Immunological Effects of Nutrition, Vienna, Austria, June 9-11, 2004.

“Toll-like receptor mediated macrophage activation-modulation by acute ethanol administration in mice”, Satellite meeting of Research Society of Alcoholism, Vancouver, June 26, 2004.

“Genomics as a Tool for Mechanistic Studies in Immunotoxicity”, American College of Toxicology, Williamsburg, VA, 2005.

“Microarrays in evaluation of Mechanisms of Immunotoxicity”, Immunotoxicogenomics Symposium (Sponsored by the US EPA), Research Triangle Park, NC, 2005.

“Ethanol, Stress Mediators, Inflammation, and Other Sources of Confusion”, Annual Meeting of the Society of Neuroimmune Pharmacology, Santa Fe, NM, April, 2006.

“Gene Expression And Immune System Susceptibility”, a symposium at the Annual Meeting of the Society of Toxicology, 2007.

“Molecular mechanisms of anti-inflammatory action of ethanol” Arkansas Children’s Hospital, Little Rock, AR, 2007.

“Immunotoxicity in the Innate Immune System”, Keynote Address. Japanese Society of Immunotoxicology, Tokyo, Japan, 2008.

“Immunotoxicity of a Pesticide Mixture: Mechanism of Greater Than Additive Inhibition of Cytokine Production” Invited speaker at a symposium on toxicology of mixtures at the annual meeting of the Society of Toxicology, 2009.

“Immunotoxicity of Atrazine” Invited presentation to EPA Scientific Advisory Panel (on behalf of the atrazine manufacturer, Syngenta), Washington, DC, 2010.

“Acute ethanol drastically alters cytokine responses induced through toll like receptors: implications for resistance to infection and hepatotoxicity”, invited talk, Symposium, Binge Alcohol is Injurious to the Liver, Research Society on Alcoholism Meeting, 2011.

“Evidence for Ethanol-Induced Conformational Change in Toll-Like Receptor 3 (TLR3) and an Ethanol Binding Site, Society for Leukocyte Biology, Maui, HI, September 2012.

“Disruption of Innate Immunity by Ethanol and other Agents: Recent Studies on Molecular Mechanisms and Effects in an Animal Model of Sepsis.” Grand Rounds, Department of Surgery, Michigan State University, January 2013.

“Research in Pharmacology and Toxicology at Mississippi State University”, presented at Kyungpook National University, Seoul National University, and the Quarantine and Inspection Service of South Korea, November 2013.

National Institute of Environmental Health Sciences (NIEHS) Symposium: Impact of Environmental Exposures on Immune Function, American Association of Immunologists Annual Meeting, Honolulu, HI, 2013. Stephen B. Pruetz, Mississippi State University, Mechanisms of immunotoxicity of sodium methylthiocarbamate: Unexpected observations on the role of oxidative stress in inflammation and innate immunity.

“A Reassessment of Mice as a Model for Sepsis in Humans”. Symposium on Strengths and Weaknesses of Mouse Models in Studies of Immunological Effects of Drugs and Chemicals, Society of Toxicology Annual Meeting, San Diego, CA, March, 2015.

Funding (only funds obtained or expected as Principal Investigator are listed). Total funding approximately \$29,000,000.

Mississippi State University Research Initiation Grant (\$6,000), “Immunomodulation by Interleukin 2”, 1985.

UES-USAF Research Initiation Grant (\$25,000), “Model Systems for Assessing the Effects of Microwave Radiation on the Immune System”, US Air Force, 1988.

NIH, Academic Research Enhancement Award #R15 AI 24932 (\$70,000), “Host Resistance Models for Immunotoxicity Evaluation”, 1988-1990.

US Air Force Office of Scientific Research Grant #AFOSR-89-0361 (\$30,000), “Relationships between selected macrophage functions”, 1989.

NIH, Academic Research Enhancement Award #R15 ES 05371 (\$105,000), “Mechanisms of Immunotoxicity of Organophosphates”, 1991-1993.

USDA Specific Cooperative Agreement (\$25,000), “Use of monoclonal antibodies in the diagnosis of mycoplasmosis in poultry”, 1991-1992.

US EPA Cooperative Agreement (\$300,000 total direct costs), “Quantitative relationships between immunological parameters and host resistance”, 1992-1995.

NIH (NIAAA) grant R01 AA09505-03 (\$309,000 total direct costs). “Mechanisms of Immunosuppression by One Dose of Ethanol”. 1994-1997.

NIH research career development award K02 AA00201-01 (\$350,000 total), 1995-2000.

NIH (NIEHS) grant R01 ES08781-01 (\$424,000 total direct costs). “Mechanisms of immunotoxicity of chemical stressors”, 1997-2001.

Colgate-Palmolive Visiting Professorship to sponsor the visit of Dr. Michael P. Holsapple to MSU in February, 1997 (\$10,000).

NIH (NIAAA) grant R01 AA09505-04 (\$556,000 total direct costs). “Mechanisms of Immunosuppression by One Dose of Ethanol”. 1999-2004.

NIH (NIEHS) grant R01 ES09158-04 (\$900,000 total direct costs). “Mechanisms of immunotoxicity of chemical stressors”. 2001-2006.

DOD (grant DAMD17-00-1-0070). “Stress organophosphates, and blood brain barrier integrity. 2000-2004 (\$112,000 total direct costs). Co-Investigator with Dr. Carey Pope, Oklahoma State U.

Pfizer, Inc. 2002-2006 (\$500,000 total costs). “Development and Characterization of a Biomarker for Stress in the Rat”.

NIH grant R01 ES013708, Mechanisms of Immunotoxicity of Methyl Dithiocarbamates, 2006-2011, (\$1,390,000 total costs).

NIH grant R01 AA009505, Mechanisms of Immunosuppression by One Dose of Ethanol, 2005-2008 (\$870,000 total costs).

“Mechanisms of Immunosuppression by One Dose of Ethanol”
R01 (AA09505, Years 9-12) Period: 04/01/99 –09/30/08 (~\$700,000)

The long term objective of this project is to investigate the mechanisms by which acute (binge) exposure to ethanol suppresses the immune system, particularly innate immunity mediated through toll-like receptors.

“Mechanisms of Immunosuppression by Methylthiocarbamate”, R01ES13708, Period: 2006-2011 (~\$2,000,000).

The long-term objective is to characterize the mechanisms by which sodium methylthiocarbamate alters cytokine production and suppresses innate immunity, with emphasis on the role of reactive oxygen species, copper chelation, and stress mediators in the alteration of cellular signaling.

“NIH minority supplement for a graduate assistantship for an existing project”. Period: 2010-2011. Supplement to R01ES13708, 2006-2011.

“Immunological Assessment of Fish from the Gulf of Mexico: Effects of the Deepwater Horizon Oil Spill”. Period: 09/2010-08/2011. NSF RAPID grant # DBI-1058438.

“Center of Biomedical Research Excellence on Pathogen-Host Interactions”. Submitted February, 2012. Funding Period: September, 2013-June, 2018. Total cost, ~\$10.5 million. This grant funds infrastructure development and faculty research and mentoring for new faculty members.

“Centers for Disease Control SHEPHERD Program.” Based on our application, MSU was selected as one of 7 veterinary schools eligible to compete for funding of individual projects in this 5-year, \$200,000,000 program.

“Center of Biomedical Research Excellence in Pathogen-Host Interactions”, Phase II. This is a renewal of our Phase I project, and award notification has recently been received for more than \$10.5 million for the next 5 years.

Pending, “EPA-G2019-ORD-A1 Title: Addressing Environmental Concerns in Vieques, Puerto Rico, through Community Participatory Research.” Application submitted April, 2019.

Post-Doctoral Trainees

Name	Date	Present position
Wen-Jun Wu	1997	Prof., Chung Shan Med. Inst., Taiwan
Stephanie Collier	1999	Scientist, USDA Poultry Lab, Starkville, MS
Xiaomin Deng	2010	Scientist, Medtronics, Jacksonville, FL

Graduate Students (Dissertation/Thesis advisor)

Name	Degree, date	Present position
Beth Howell Hansen	M.S., 1986	Teacher, Hinds County Comm. College (retired)
Alan Lackey	M.S., 1987	Esoterix, Inc., Nashville, TN.
Nicholas I. Obiri**	Ph.D., 1988	Regulatory Officer, NIAID, Bethesda, MD
James Higginbotham	M.S., 1992	Dir., Flow Cytometry Core, Vanderbilt U.
Donna Barnes	Ph.D., 1992	former Instructor, Miss. State U., deceased
Eric Padgett	M.S., 1992	Toxicology Director, Alcon Pharmaceuticals
Yun-Cheng Han	Ph.D., 1994	Psychiatrist, Waterbury, CT
Patrick Crittenden	M.S., 1994	Professor of Biology, Florida State College
Deborah Keil	Ph.D., 1996	Associate Professor, Montana State U.
Paul Weiss	M.S., 1996	Manager, iCyt flow cytometry
Wen-Jun Wu	Ph.D., 1997	Prof., Chung Shan Med. Coll., Taiwan
Kong Shen*	Ph.D., 1997	Analytical Chemist, CA
Brice Vinson	M.S., 1997	District Manager, Abbott Pharmaceuticals
Stephanie Collier**	Ph.D., 1999	Scientist, USDA Poultry Lab, Starkville, MS
Kametra Matthews**	M.S., 2002	Contract employee, FDA
Peyton Myers	Ph.D., 2003	Senior Scientist, FDA, Bethesda, MD

Irina Florea	Ph.D., 2004	Pathologist, Iasi Medical School, Romania.
Qun Dai	Ph.D., 2006	Research Specialist, Emory University Med. School
Mitzi Glover	Ph.D., 2009	Assoc. Prof., TCU and UNTHSC
Kristine von Maltzan	Ph.D., 2010	Post-Doctoral researcher, U. of Washington.
Basit Jan	M.S., 2011	Pfizer
Monica Gadson**	M.S., 2012	Unknown
Anberitha Matthews**	Ph.D., 2015	Post-Doc, U. Tenn. Med. School, Memphis
Sandra Bulla	Ph.D., 2016	Resident in Pathology, MSU-CVM
Liyuan Liu	Ph.D., 2019	In progress
Carol Baker	Ph.D., 2020	In progress

** Underrepresented minority student

Graduate Student Advisory Committees:

42 M.S. or Ph.D. students at MSU, 8 at LSUHSC.

High School and Undergraduate Student Mentoring:

Science and Medicine Research Training (SMART) Program for high school seniors (Students work full time in summer and 10 hr/week during the school year)

Student	Year
Leigh Hearne	1998
Jessica Kneubuhl	1999
Lacey Ardoin	2001
Susan Boling	2002 (M.D.)
Stephen McCullough	2003 (Cardiology Attending Physician, New York City)
Melissa Cox	2005
Janee Greer	2006

Summer research for undergraduate students

Student	Year
Carlton Schwab	1998-2002 (Adjunct Faculty of Reproductive Medicine at Yale)
Stephen McCullough	2004-2006 (Cardiology Attending Physician, New York City)
Amy Soileau	2005
Aaron Pitre	2005 (PhD, post-doctoral researcher)
Scott Pruett	2005 (M.D./Ph.D 4th year Resident at Brown University)
Karisa Deculus	2006

Undergraduate mentoring at MSU

Krysten Harvey (Vanderbilt) 2015

Patent:

Ramaswamy, S, Zeng, F., and Pruett, S.B. (2001). *Heliothis virescens*-specific and *Helicoverpa zea*-specific monoclonal antibodies and insect identification method. U.S. Patent #6,235,485.

Publications (peer reviewed):

1. Pruett, S.B. and Wolcott, M. (1980). Quantitation of proteins in the femtomole range by hemagglutination using an electronic particle counter. *J. Immunol. Methods* 35:129-136.
2. Pruett, S.B. and Wolcott, M. (1982). The heterophile transplantation antigen system: A unique heterophile system exhibiting multiple specificities. *Tissue Antigens* 20:112-122.
3. Pruett, S.B. and Wolcott, M. (1984). Biochemical characteristics of the heterophile transplantation antigen. *Tissue Antigens* 23:191-202.
4. Pruett, S.B., Lackey, A., Howell, B. and Ainsworth, J. (1985). A quantitative, non-isotopic bioassay for Interleukin 2. *Immunol. Invest.* 14:541-548.
5. Pruett, S.B. and Lackey, A. (1987). The apparent Interleukin 2 inhibitory activity of human serum is due to rapid killing of IL2-dependent mouse cells. *Clin. Exp. Immunol.* 69:624-631.
6. Lackey, A. and Pruett, S.B. (1987). Suppression of Interleukin 2 activity by natural products: Effects of serum lipoproteins. *Immunol. Invest.* 16:333-343.
7. Pruett, S.B. and Chambers, J.E. (1988). Effects of paraoxon, p-nitrophenol, phenyl saligenin cyclic phosphate, and phenol on the rat Interleukin 2 system. *Toxicol. Lett.* 40:11-20.
8. Obiri, N. and Pruett, S.B. (1988). The role of thiols in lymphocyte responses: Effects of 2-mercaptoethanol on Interleukin 2 production. *Immunobiol.* 176:440-449.
9. Pruett, S.B. and Kiel, J.W. (1988). Quantitative aspects of the feeder cell phenomenon: Mechanistic implications. *Biochem. Biophys. Res. Comm.* 150:1037-1043.
10. Pruett, S.B., Chambers, J.E. and Chambers, H.W. (1989). Potential immunomodulatory effects of phenylphosphonothioates. *Int. J. Immunopharmac.* 11:385-393.
11. Smith, C. and Pruett, S.B. (1989). Circadian variations in human lymphocytes are not responsible for variable or contradictory results in studies of Interleukin 2 production. *Immunol. Lett.* 20:15-20.
12. Pruett, S.B., Higginbotham, J.N. and Kiel, J.L. (1989). Quantitative aspects of the feeder cell phenomenon: Direct assessment of enhanced cystine uptake by lymphocytes. *Immunobiol.* 179:308-313
13. Pruett, S.B., Obiri, N. and Kiel, J.L. (1989). Involvement and relative importance of two distinct mechanisms in the effects of 2-mercaptoethanol on murine lymphocytes in culture. *J. Cell. Physiol.* 141:40-45.
14. Pruett, S.B. and Loftis, A.Y. (1990). Characteristics of MTT as an indicator of viability and respiratory burst activity of human neutrophils. *Int. Arch. Allergy Appl. Immunol.* 92:189-192
15. Obiri, N.I., Dupere, S.L., Pruett, S.B., Lackey, A., Emma, D., and O'Connor, T.E. (1990). Levamisole meets sulfhydryl requirements of CTLL-2 cells and mediates enhanced proliferative response to mitogen stimulation without increasing Interleukin 2 production. *J. Biol. Resp. Mod.* 9:288-299
16. Sanders, V.M., Fuchs, B.A., Pruett, S.B., Kerkvliet, N.I., and Kaminski, N.E. (1991). Symposium Overview. Symposium on indirect mechanisms of immune modulation. *Fundam. Appl. Toxicol.* 17:641-650.
17. Kiel, J.L., Alls, J.L., Parker, J.N., and Pruett, S.B. (1992). The cellular stress transponder: Mediator of electromagnetic effects or artifact? *Nanobiology* 1:491-503.
18. Higginbotham, J.N., Lin, T.L., and Pruett, S.B. (1992). Effect of Macrophage activation on killing of *Listeria monocytogenes*: Roles of reactive oxygen or nitrogen intermediates, rate of phagocytosis, and retention of bacteria in endosomes. *Clin Exp. Immunol.* 88:492-498.
19. Pruett, S.B., Barnes, D.B., Han, Y.-C., and Munson, A.E. (1992). Immunotoxicological characteristics of sodium methyldithiocarbamate. *Fundam. Appl. Toxicol.* 18:40-47.

20. Barnes, D.B., Hardin, J.M., and Pruett, S.B. (1992). Acute infection of mice with highly virulent Group B Streptococci as a host resistance model for immunotoxicity assessment. *Arch. Toxicol.* 66:423-429.
21. Pruett, S.B., Han, Y.-C., and Fuchs, B.A. (1992). Morphine suppresses primary humoral immune responses by an indirect mechanism. *J. Pharmacol. Exp. Ther.* 262:923-928.
22. Padgett, E.L., Barnes, D.B., and Pruett, S.B. (1992). Disparate immunotoxic and cytotoxic effects of representative dithiocarbamates. *J. Toxicol. Environ. Health.* 37:559-571.
23. Padgett, E.L. and Pruett, S.B. (1992). Assessment of nitrite production by human monocyte-derived macrophages. *Biochem. Biophys. Res. Commun.* 186:775-781.
24. Pruett, S.B., Han, Y., Munson, A.E., and Fuchs, B.A. (1992). Assessment of cholinergic influences on a primary humoral immune response. *Immunol.* 77:428-435.
25. Fuchs, B.A. and Pruett, S.B. (1993). Morphine induces apoptosis in murine thymocytes *in vivo* but not *in vitro*: Involvement of both opiate and glucocorticoid receptors. *J. Pharmacol. Exp. Ther.* 266:417-423.
26. Haque, Z.U. and Pruett, S.B. (1993). Development of an enzyme linked immunoassay for β -lactoglobulin in dairy products. *Cult. Dairy Prod. J.* 28:23-26.
27. Han, Y.C., Lin, T.L., and Pruett, S.B. (1993). Ethanol-induced thymic atrophy in a mouse model for binge drinking: Involvement of endogenous glucocorticoids. *Toxicol. Appl. Pharmacol.* 123:16-25.
28. Higginbotham, J.N. and Pruett, S.B. (1994). Assessment of the correlation between nitrite production and bactericidal activity in resident and elicited murine macrophages. *Clin. Exp. Immunol.* 97:100-106.
29. May, J.D., Branton, S.L., Pruett, S.B., and Ainsworth, A.J. (1994). Differentiation of two strains of *Mycoplasma gallisepticum* with monoclonal antibodies and flow cytometry. *Avian Dis.* 38:542-547.
30. St. Cyr-Coats, K., Nash, J., and Pruett, S.B. (1994). Seroprevalence of BIV in Mississippi cattle herds. *Vet. Microbiol.* 42:181-189.
31. Wu, W.J., Wolcott, R.M., and Pruett, S.B. (1994). Ethanol decreases the number and activity of splenic natural killer cells in a mouse model for binge drinking. *J. Pharmacol. Exp. Ther.* 271:722-729.
32. Pruett, S.B., Chambers, H.W., and Chambers, J.E. (1994). A comparative study of inhibition of acetylcholinesterase, trypsin, neuropathy target esterase, and spleen cell activation by structurally related organophosphorus compounds. *J. Biochem. Toxicol.* 9: 319-327.
33. Padgett, E.L. and Pruett, S.B. (1995). Rat, Mouse, and Human Neutrophils do not typically produce sufficient quantities of nitrite to suggest an important anti-microbial role for reactive nitrogen intermediates in these cells. *Immunology.* 84:135-141.
34. Keil, D.E., Luebke, R.W., and Pruett, S.B. (1995). Differences in the effects of dexamethasone on macrophage nitrite production: Dependence on exposure regimen (*in vivo* or *in vitro*) and activation stimuli. *Int. J. Immunopharmacol.* 17:157-166.
35. Han, Y.C. and Pruett, S.B. (1995). Mechanisms of ethanol-induced suppression of a primary antibody response in a mouse model for binge drinking. *J. Pharmacol. Exp. Ther.* 275:950-957.
36. Carson, E.J. and Pruett, S.B. (1996). Development and characterization of a binge drinking model in mice for evaluation of the immunological effects of ethanol. *Alcoholism: Clin. Exp. Res.* 20:132-138.

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Pruett, S.B., Le, V., Lewis, E., Gwaltney, S., Manikanthan, B., and A. Shack (2013). Direct evidence of altered conformation and evidence for a binding site on TLR3 for ethanol at relevant concentrations. Society of Toxicology, abstract #397.

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Tan, W., Jan, B., Deng, X., Gadson, M., and Pruett, S.B. (2013). Characterization of suppression of innate immune system by sodium methylthiocarbamate. Society of Toxicology, abstract #412.

Mangum, L., Howell, G.E., Pruett, S.B., Ross, M.K. (2014). p,p'-DDE Enhances adipogenesis in 3T3-L1 adipocytes and alters cyclooxygenase-2 (COX-2) activity in J774a.1 and THP-1 macrophage cells. Society of Toxicology, abstract #687.

Pruett, S.B. (2014). Adverse effects of systemic inflammation and acute phase responses induced by toxicants. Society of Toxicology, abstract #1413.

Tan, W., Nanduri, B., Deng, X., and Pruett, S.B. (2014). Immunotoxicity of sodium methylthiocarbamate: potential connections of disparate effects. Society of Toxicology Abstract #1713p.

Pruett, S.B., (2015). A Reassessment of Mice as a Model for Sepsis in Humans. Abstract #2399, Society of Toxicology Annual Meeting, Symposium on Strengths and Weaknesses of Mouse Models in Studies of Immunological Effects of Drugs and Chemicals. San Diego.

Mangum, L., Stokes, J., Howell, G.E., Ross, M.K., Pruett, S.B., and Chambers, J.E. (2015). Abstract #1353. p-p'-DDE Alters Macrophage Reactivity In Vitro and Induces Monocyte/Macrophage recruitment to the Stromal Vascular Fraction (SVF) of Adipose Tissue in C57Bl/6 Mice. Society of Toxicology Annual Meeting, San Diego, CA.

Le, V., Lewis, E., Gwaltney, S., Manikanthan, B., Shack, A., Nanduri, B., and Pruett, S.B. (2016). Abstract #1336. Direct Effects of Ethanol at Toxicologically Relevant Concentrations on TLR3 Conformation and Ligand Binding Ability. Society of Toxicology Annual Meeting, New Orleans, LA.

Pruett, S.B., Tan, W., Cheng, B., and Tower, T. (2016). Late Breaking Abstracts. Global effects of methylisothiocyanate by inhalation on innate immunity in a mouse model. Society of Toxicology Annual Meeting, New Orleans, LA.

Nanduri, B., Akgul, A., Shack, L.A., Pruett, S.B. (2017) Effect of repeated binge drinking on resistance to bacterial pneumonia in mice. Society of Toxicology Annual Meeting, Baltimore, MD.

Pruett, S.B., Nanduri, B., Deng, X., and Fan, R. (2017). Global Assessment of effects of acute ethanol exposure on gene expressed induced by *Escherichia coli* in a mouse model for sepsis. Society of Toxicology Annual Meeting, Baltimore, MD.

Pruett, S.B., Gadson, M., Tan, W., and Nanduri, B. (2018). Sodium Methylthiocarbamate as a Probe of the Role of Oxidative Stress in the Response to Lipopolysaccharide. Society of Toxicology Annual Meeting, San Antonio, TX.

Teaching

Courses taught on a regular basis at MSU (1984-1997): Cell Biology, General Microbiology, Immunology, Advanced Immunology (graduate), Immunological Techniques (graduate), Microbial Genetics (graduate). Typical teaching load = 1-3 courses/semester (3-15 contact hours/week).

Other courses taught at MSU: General Microbiology, Cell Biology.

At LSUHSC, Participated in: Cell Biology, and Experimental Cell Biology (graduate courses), Medical Histology (medical course). Course Director, Cell Biology 200D (Histology for Graduate Students). Planning Committee and lecturer for "Physiological Responses to Disease", first year medical course. Graduate Core course: IDSP 219, Immunology, Inflammation, and Cancer. Immunology (graduate course). Toxicology (graduate course). Week

leader, Module 1 Course 4. Lectures on Ethanol, Phagocytosis, Innate Immunity, Cancer Immunology, and Complement for medical students.

Course Director: IDSP 219, Experimental Cell Biology (Cebio 230), Current Topics in Cell Biology (Journal Club).

Courses Taught at MSU (2007-present): BIO 4413/6413 (Immunology, course director and gave 7 lectures); CVM 5023 (8 lectures and first exam in veterinary immunology); CVM 6021 (Course Director and developer, Essentials of Research Practice and Professionalism); CVM 8315 (Advanced immunology, 4 lectures). CVM Veterinary Immunology Course, 8 lectures (Inflammation and Innate Immunity).

Service (selected major items)

Academic advisor for B.S. Program in microbiology at MSU (1989-1997)

Member, Departmental Committee on Graduate Studies at MSU (1989-1997)

Chair, Departmental Tenure and Promotion Committee at MSU (1996)

Chair, MSU College of Arts and Sci. Tenure and Promotion Committee (1996-1997)

Vice President, MSU College of Arts and Sciences Faculty Senate (1996)

Member: Biosafety Committee, LSUHSC (1997-2000)

Member: Departmental Graduate Committee, LSUHSC (1997-2007).

Sponsor of a named award in the Region I Science Fair, 2006.

Graduate Coordinator, Dept. of Cellular Biology and Anatomy, LSUHSC (2001-2007).

Member: Graduate Advisory Council, LSUHSC, (2001-2007).

Member: Departmental search committees for new faculty members, LSUHSC (1997-2004)

Member Animal Resources Advisory Committee, LSUHSC (1999-2004)

Member Institutional Tenure and Promotion Committee, LSUHSC-S (2000-2005).

Member, Institutional Governance Subcommittee for USMLE Accreditation Review.

Organized visit to LSUHSC for area academic advisors at undergraduate institutions (1998 and 1999).

Mentor for Science and Medicine Academic Research Training (SMART) program for high school students, 1998-2007.

Chair, Faculty Senate, LSUHSC, 2004-2005.

Chair, Research Advisory Committee, LSUHSC, 2003-2006.

Chair, Tenure and Promotion Committee, LSUHSC, 2004-2005.

Organized and served as mentor for summer internship for students at the Louisiana Scholars' College at Northwestern State University. This program is now in its third year, and it allows students at LSC to conduct research necessary to complete their senior thesis.

Interim Department Chair, Dept. of Cellular Biology and Anatomy, LSUHSC, 2007.

Member, DVM/PhD program steering committee, MSU, 2008-present.

Member of the organizing committee for the Southeast Regional IDeA Conference in Biloxi in 2015 (Mohammed Elasri, Chair).

Elected member, Search Committee for Provost and Executive Vice President at MSU, 2016.

Member, Administrative Department Heads Executive Council, MSU, 2015-present.

Southeast Regional Representative, National Association of IDeA Principal Investigators, 2016-present.

Consulting-

Syngenta Chemicals. Presented state of the science overview at EPA Scientific Advisory Committee Meeting on Re-registration of the herbicide Atrazine, April, 2010.

U.S. Environmental Protection Agency peer-review of risk assessment documents for n-methylpyrrolidone and methylene chloride, December 2013.