

# VITA

## I. PERSONAL DATA

### SUSAN J. LAMONT

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**DATE:** June 8, 2015

## II. RANK

C.F. Curtiss Distinguished Professor in Agriculture and Life Sciences

## III. EDUCATION

**Ph.D.:** University of Illinois Medical Center, Chicago, 1980

**B.S.:** Trinity Christian College, Illinois, 1975

## IV. PROFESSIONAL ACADEMIC EXPERIENCE

- 2010-present Equity Advisor, College of Agriculture and Life Sciences, 1/3-time administrative appointment
- 2004-present Charles F. Curtiss Distinguished Professor in Agriculture and Life Sciences, Iowa State University
- 2001-2003 Head, Department of Animal Science, Iowa State University
- 1994-1997 Assistant Director for Research, Iowa Agriculture and Home Economics Experiment Station, 1/2-time administrative appointment
- 1991-2004 Professor, Department of Animal Science, Iowa State University
- 1991-1998 Allied Professor, Department of Microbiology, Immunology, Preventive Medicine, Iowa State University
- 1990 Faculty Improvement Leave, Spelderholt, Center for Poultry Research and Information Services, the Netherlands
- 1987-1991 Associate Professor, Department of Animal Science, Iowa State University.
- 1983-present Full Member, Graduate Faculty, Iowa State University
- 1983-1987 Assistant Professor, Department of Animal Science, Iowa State University.
- 1980-1983 Postdoctoral Research Associate, Department of Veterinary and Animal Sciences, University of Massachusetts, Amherst.
- 1978-1979 Clinical Instructor, Department of Anatomy, Loyola University School of Dentistry, Maywood, IL.
- 1975-1980 Graduate Assistant, Department of Anatomy, University of Illinois Medical Center, Chicago, IL.

## V. ISU PERSONNEL RECORD

- 2010-present Equity Advisor, College of Agriculture and Life Sciences, 1/3-time administrative appointment
- 2004-present C.F. Curtiss Distinguished Professor in Agriculture and Life Sciences, Iowa State University
- 2001-2003 Head, Department of Animal Science
- 1997-1999 Chair, Immunobiology Interdepartmental Graduate Program
- 1994-1997 Assistant Director for Research, Iowa Agriculture and Home Economics Experiment Station, Iowa State University
- 1992-present Member, Interdepartmental Genetics Faculty
- 1991-2004 Professor, Department of Animal Science, Iowa State University
- 1991-1997 Allied Professor, Department of Microbiology, Immunology and Preventive Medicine, Iowa State University
- 1987-1991 Associate Professor, Department of Animal Science, Iowa State University.
- 1987-1990 Chair, Immunobiology Interdepartmental Graduate Program
- 1983-present Member, Interdepartmental Immunobiology Faculty
- 1983-present Full Member, Graduate Faculty, Iowa State University
- 1983-1987 Assistant Professor, Department of Animal Science, Iowa State University.

## VI. AWARDS AND HONORS

Distinguished Service to Agriculture, Gamma Sigma Delta, ISU Chapter, 2011  
Fellow, Poultry Science Association, 2009  
Embrex Pfizer Fundamental Science Award, Poultry Science Association, 2009  
Merck Award for Achievement in Poultry Science, 2007  
Rossmann-Manatt Faculty Development Award, 2007  
Midwest Poultry Consortium, Outstanding Service Award, 2005  
Charles F. Curtiss Distinguished Professor of Agriculture, 2004  
Gamma Sigma Delta, Mission Award for Research, 2004  
Helene Cecil Leadership Award, Poultry Science Association, 2003  
Iowa Board of Regents Faculty Excellence Award, 2001  
Iowa State University Foundation Award for Outstanding Achievement in Research, 1999  
Walnut Grove-ISU Livestock Service Award, 1989  
Association for Research in Vision and Ophthalmology Travel Fellowship, 1983  
Virginia Evans Award, Midwestern Branch of the Tissue Culture Association, 1979  
Presidential Award, Reticuloendothelial Society, 1978  
University of Illinois Graduate College Fellowship, 1975-1977  
Dean's List, 1971-1980

## VII. PROFESSIONAL ACTIVITIES BEYOND THE UNIVERSITY

### Editorial Appointments:

Associate Editor (Breeding and Genetics), *Poultry Science*, 2002-present  
Associate Editor, *Journal of Heredity*, 2000-present

Editorial Board, *Animal Biotechnology*, 1995-present  
Editorial Advisory Board: *Poultry and Avian Biology Reviews*, 1998-present  
Associate Editor (Immunology), *Poultry Science*, 1988-1996  
*Ad hoc* Reviewer of Manuscripts: *Science*, *Veterinary Immunology and Immunopathology*, *Animal Genetics*,  
*Journal of Heredity*, *Developmental and Comparative Immunology*, *Proceedings of the National Academy  
of Science USA*, *Journal of Immunology*, *Immunogenetics*

*Scientific Society Leadership:*

Administrative Advisor, NC-1170 Multi-state Research project (2013-present)  
Nominating Committee, American Association of Veterinary Immunologist, 2011-2013 (chair, 2013)  
Genetics of Immune Response workshop chair, International Society of Animal Genetics, 2010 - 2012  
Scientific Program Committee, International Society of Animal Genetics, 2008  
Organizing Committee, Animal Genomics for Animal Health Symposium, 2007  
Co-Chair, Organizing Committee, Genetics of Animal Health Symposium, 2005  
Scientific Program Committee, World's Poultry Congress 2004, 2000-2004  
Organizing Committee, International Conference on Animal Genetics 2000, 1997-2000  
Scientific Program Committee, World's Poultry Congress 2000, 1997-2000  
Executive Committee, International Society of Animal Genetics, 1996-2000  
USA Branch, World's Poultry Science Association, Director, 1992-1996  
Secretary, International Society of Animal Genetics, 1992-1996  
National Animal Genome Technical Committee, Secretary 1993-1994, Chair, 1994-1995  
Executive Committee, ISU Chapter of Sigma Xi, 1991-1995 (President 1994-1995)  
Poultry Science Association Scientist Liaison Committee, 1987-1998  
Chair, Immunology Program Committee, Poultry Science Association, 1987

*Regional Undergraduate Education:*

Midwest Poultry Consortium "Center of Excellence" Coordination Council, 2008 - 2009  
Executive Committee, Midwest Poultry Consortium "Center of Excellence" Coordination Council, 2003-2006

*Scientific Peer-Reviews:*

BARD (US-Israel Binational Agriculture Research and Development Fund) Technical Advisory Committee, 2013-  
2015 (Chair, 2014)  
USDA-ARS Prospective Review Panel NP101: Animal Genomics, 2012 (Chair)  
AAAS-managed review of Strategic Technology Program (Animal Husbandry), Kingdom of Saudi Arabia, 2011  
USDA-ARS Retrospective Review Panel NP101: Animal Production and Animal Welfare, 2011  
USDA-CSREES Review Panel: Animal Science Department, Cornell University, 2009  
INRA Animal Genetics and Animal Genomics Programs, 2009  
Swedish Agricultural University, External Expert Panel to hire professor in Animal Molecular Genetics, 2008  
BARD (US-Israel Binational Agriculture Research and Development Fund) Animal Production Review Panel,  
2004, 2005, 2006 (Chair), 2007 (Chair)  
USDA-ARS Retrospective Review Panel NP101 and NP105: Animal Production and Animal Welfare, 2006  
USDA-ARS Prospective Review Panel NP103: Animal Health-Genomics, 2006 (Chair)  
Department of Defense-TSCRIP Integration Panel, 2005 - 2008  
USDA-NRI Review Panel: Animal Genomics, 2004, 2005 (Chair), 2008 (Chair)  
USDA-CSREES Review Panel: Poultry Science Department, University of Georgia, 2002  
Midwest Poultry Research Program Review Panel, 2001, 2005  
USDA-ARS Review Panel: Infectious Disease Research Laboratory, 1998  
USDA-CSRS Review Panel: Poultry Science Department, University of Wisconsin, 1994  
USDA-NRI Review Panel: Animal Molecular Genetics, 1992, 1994, 1997  
USDA Review Panel: Molecular and Cellular Basis of Disease, 1991  
NSERC Review Panel: Poultry Biotechnology Industrial Chair, 1989  
CSRS Review Panel: Avian and Poultry Science Department, Cornell University, 1988  
*Ad hoc* Reviewer, NSF, US-Israel BARD and USDA (Animal Health, Animal Science, Biotechnology, Small  
Business Innovation) research grants

Professional Society Membership:

American Association of Immunologists  
 Conference of Research Workers in Animal Disease  
 Gamma Sigma Delta  
 International Society for Animal Genetics  
 Poultry Science Association  
 Sigma Xi  
 World's Poultry Science Association

**VIII. GRANTS AND CONTRACTS RECEIVED**

US Agency for International Development (USAID). "Improving Food Security of Africa by Enhancing Resistance to Disease and Heat in Chickens." H. Zhou (UC-Davis), PI; S.J. Lamont, J.C.M. Dekkers (ISU coPIs) 9/27/2013 – 9/26/18	~6,000,000
USDA-CREES "USDA Database Genome Coordinator", J. Reecy, S. Lamont, M. Rothschild, C. Tuggle, and F. McCarthy, 10/01/13 – 9/30/18	580,000
USDA-NIFA National Needs Training Grant. "An Integrated Educational Approach (IDEA): Combined Computational and Genomics Education in Livestock" J. M. Reecy, S.J. Lamont, D. Garrick. 1/01/12-12/31/14	262,500
Center for Integrated Animal Genomics "Support of ISU's unique chicken genetic lines" S. J. Lamont, C. Andreasen, J. Dekkers, D. Nettleton, D. Palic, M. Persia. 7/01/11 – 06/30/12	6,000
USDA-NIFA-AFRI. "Adapting Chicken Production to Climate Change through Breeding." C. Schmidt (UDEL), S.J. Lamont, M.F. Rothschild, M. Persia, S. Kemp, C. Ashwell. 4/01/11 - 3/31/16	4,707,445
USDA-NIFA National Needs Training Grant. "Genomics for Resistance to Disease in Animals: an Integrated Educational Approach" S.J. Lamont, S. Carpenter, M.F. Rothschild, C.K. Tuggle. 1/01/11-12/31/13	258,000
Center for Integrated Animal Genomics "Support of unique genetic resources of specialized lines of chickens at ISU" S. J. Lamont, C. Andreasen, J. Dekkers, P. Liu, D. Nettleton, L. Nolan, D. Palic. 7/01/10 – 06/30/11	6,000
USDA-NIFA National Needs Training Grant. "Integration Of Quantitative Genetics, Statistics, Computational Biology, And Breeding For Animal Genetic Improvement" J.C.M. Dekkers, S. J. Lamont, P. Liu, 1/01/10 – 12/31/2012	258,000
USDA-NIFA-AFRI competitive research grant. "Use of high-density SNP genotyping for genetic improvement of livestock" J. C. M. Dekkers, R.L. Fernando, D. Garrick, S.J. Lamont, 1/01/10 – 12/31/2012	449,958
Center for Integrated Animal Genomics "Support of unique genetic resources of specialized lines of chickens at ISU" S. J. Lamont, C. Andreasen, J. Dekkers, P. Liu, D. Nettleton, L. Nolan, D. Palic, M. Spurlock, 7/01/09 – 06/30/10	7,680
American Egg Board and Iowa Egg Council. "Effects of Long-Term Supplementation of Laying-Hen Diets with High Concentrations of Cholecalciferol on Egg Yolk Vitamin D Concentration, Egg Quality, Hen Performance and Hen Health." M.E. Persia, T. Wang, S. Lamont, D. Beitz and H. Xin. 10/01/09 – 9/30/12	119,104
Center for Integrated Animal Genomics "Support of graduate research assistant in physiological immunogenomics" S. J. Lamont, 7/01/09 – 06/30/10	12,875

ADVANCE Visiting Scholar grant "Dr. Mary Delany". S.J. Lamont, 7/01/09 – 06/30/10	1,000
Center for Integrated Animal Genomics "Support of CIAG visiting scholar, Dr. H. Zhou" S. J. Lamont, 7/01/09 – 06/30/10	1,000
USDA-NRI competitive research grant (Microbial Functional Genomics panel). "Pathogen Interactions in Avian Colibacillosis: a Systems-Based, Functional Genomics Approach, L. Nolan, S.J. Lamont (20%), P. Liu, T. Johnson, 2/01/08 – 1/31/13	950,000
Center for Integrated Animal Genomics "Support of unique genetic resources of specialized lines of chickens at ISU" Renewal, S. J. Lamont, J. Dekkers, S. Lonergan, and D. Nettleton, 7/01/08 – 06/30/09	8,000
USDA-CREES "USDA Database Genome Coordinator", J. Reecy, S. Lamont, M. Rothschild, C. Tuggle, and S. Burgess, 10/01/08 – 9/30/13	580,000
ISU Center for Integrated Animal Genomics "Comparative Systems Biology of Inflammation to Improve Food Safety" C.K. Tuggle, V. Hanavar, S. J. Lamont, 8/01/07 – 6/30/08	25,021
USDA-NRI competitive research grant (Animal Genomics panel). "Functional Genomics and Cellular Immunity to Salmonella" S.J. Lamont, D. Palic, C. Andreasen, 2/01/07-1/31/2011	472,346
USDA-NRI conference grant (Animal Genomics panel). "Animal Genomics for Animal Health Symposium 2007", S.J. Lamont (100%), 4/01/07 – 3/31/08	10,000
Faculty travel grant to Belo Horizonte, Brazil, August 2006, S. J. Lamont (100%)	975
Midwest Poultry Research Program (USDA-CSREES Special Grant), S. J. Lamont (100%), Director, "Year 5 (FY06) Funds", 08/01/06 – 07/31/07	630,319
Center for Integrated Animal Genomics "Support of graduate research assistant in physiological immunogenomics" Renewal, S. J. Lamont, 7/01/06 – 06/30/07	10,000
Iowa Egg Council "Matching funds for horizontal ribbon mixer for ISU Poultry Science Research Center, K. Bregendahl, H. Xin, B. Kerr, S. Lamont, and S. Nissen. 2005-2006	6,000
Center for Integrated Animal Genomics "Support of unique genetic resources of specialized lines of chickens at ISU" Renewal, S. J. Lamont, J. Dekkers, S. Lonergan, and D. Nettleton, 10/01/05 – 06/30/06	9,500
Center for Integrated Animal Genomics "Support of graduate research assistant in physiological immunogenomics" Renewal, S. J. Lamont, 10/01/05 – 06/30/06	10,000
Midwest Poultry Research Program (USDA-CSREES Special Grant), S. J. Lamont, Director, "Year 4 (FY05) Funds", 08/01/05 – 07/31/07	637,079
Midwest Poultry Research Program (USDA-CSREES Special Grant, Research Subcontract within Prime Award), "Integrated Candidate Gene and Gene Expression Approach to Identify Genetics Networks Associated with Salmonella Response in Poultry", S. J. Lamont, J. C. M. Dekkers, and D. Nettleton, 08/01/05 – 04/30/06	69,851
Center for Integrated Animal Genomics "Support of unique genetic resources of specialized lines of chickens at ISU", S. J. Lamont, J. Dekkers, S. Lonergan, and D. Nettleton, 01/01/05 – 09/30/05	9,500
Center for Integrated Animal Genomics "HYDRA II: An instrument to facilitate high-throughput genomic research", D. E. Moody and S. J. Lamont, 01/01/05 – 09/30/05	10,000
Center for Integrated Animal Genomics "Support of graduate research assistant in physiological immunogenomics", S. J. Lamont, 01/01/05 – 09/30/05	10,000

Center for Integrated Animal Genomics "Support of Visiting Professor, Jan van der Poel" S. J. Lamont, 2004	3,000
USDA-NRICGP Grant "Genetic control of response to <i>Salmonella</i> in chickens", S. J. Lamont, 02/01/04 – 01/31/08	303,856
USDA-CREES "USDA Database Genome Coordinator", J. Reecy, S. Lamont, M. Rothschild, and C. Tuggle, 10/01/03 – 9/30/08	532,000
BARD "Genes and immunological mechanisms that provide protection against important pathogens of poultry", S. J. Lamont 8/01/03 – 7/31/07	202,000
Aviagen Graduate Fellowship, S. J. Lamont and J. C. M. Dekkers, 1/01/03-12/31/03	25,000
Midwest Poultry Research Program (USDA-CSREES Special Grant), S. J. Lamont, 6/01/02-5/31/05	1,609,286
Cargill Research Excellence Program, S. J. Lamont, 1/01/02-12/31/05	100,000
Dean of Agriculture International Research Grant "China", S. J. Lamont, 2001	2,000
BARD Postdoctoral Fellowship "Nader Deeb Support" Extension of F1-297-98, S. J. Lamont 7/01/00-12/31/00 (direct stipend to N. Deeb)	13,500
BARD Competitive Grant. "Immunocompetence Traits", A. Cahaner, S. J. Lamont (PI, US Portion), 9/01/99 – 4/31/03	127,000
Promag Grant, Iowa State University, S. J. Lamont, 2/01/99 – 6/30/99	30,800
Industrial Grant. "Salmonella enteritidis colonization in layer chicks", S. J. Lamont, 10/15/98 – 9/30/99	42,800
BARD Postdoctoral Fellowship "Nader Deeb Support", FI-279-98, S. J. Lamont, 12/31/98 – 12/30/99 (\$27,000 direct stipend to Deeb)	30,000
Dean of Agriculture International Research Grant, M. F. Rothschild, S. J. Lamont, C. K. Tuggle, 8/9/98 – 8/14/98	3,000
USDA National Needs Fellowship "Animal Biotechnology", R. Fernando, M. Rothschild, S. J. Lamont, 1/15/98 - 1/14/03	108,000
Industrial Grant. "Additional funding to support research in avian molecular genetics", S. J. Lamont, 1/01/91 - 9/30/96	16,800
USDA-NRI Competitive Grants Program. "Regulation of cell-specific expression of MHC class II genes", 95-37205-2191, S. J. Lamont, S. L. Carpenter, 9/01/95 - 8/31/98	195,000
Industrial Grant. "Additional funding to support research in avian molecular genetics", S. J. Lamont, 1/01/91 - 12/31/95	16,000
USDA-CSRS (BARD Administration - Competitive Grants) "Molecular markers for immunocompetence and resistance to disease", S. J. Lamont, 9/15/94 - 9/30/98	152,000
ISU Foreign Travel Grant. "Czech Republic", S. J. Lamont, 7/20/94 - 7/29/94	916
Industrial Grant. "To support research in avian immunogenetics", S. J. Lamont, 11/01/93 - 10/31/94	26,000
Industrial Grant. "Additional funding to support research in avian molecular genetics", S. J. Lamont, 7/01/93 - 12/30/95	32,000
ISU Project Vincent Grant. "Support for computer equipment", S. J. Lamont, 6/01/93	1,000
Industrial Grant. "To support research in avian immunogenetics", S. J. Lamont, 4/27/93 - 4/27/94	29,310
USDA NRI-Competitive Grants Program (Animal Disease). "Regulatory elements	190,000

of genes controlling immunity in chickens, 91-37204-6356", S. J. Lamont, C. K. Tuggle, 9/01/91 - 8/31/95	
Industrial Grant. "To support research in avian immunogenetics", S. J. Lamont, 1/01/92 - 12/30/93	54,520
ISU University Research Grant. "Identifying POU- genes in chickens and dairy cattle for use as molecular markers in improvement of breeding programs", C. K. Tuggle, S. J. Lamont, A. E. Freeman, 5/15/91 - 5/14/92	7,500
Industrial Grant. "To support research in avian molecular genetics", S. J. Lamont, 1/01/92 - 12/30/95	32,000
ISU Foreign Travel Grant. "Israel", S. J. Lamont, 5/23/91 - 6/09/91	1,040
ISU College of Agriculture Innovative Grant. "Identification of candidate hypervariable loci as markers for economic traits in animals", S. J. Lamont, A. E. Freeman, 12/18/90 - 6/30/91	7,000
ISU College of Agriculture Equipment Grant. "Orbital shaker, trays, and platforms", S. J. Lamont, 12/17/90 -6/30/91	3,568
Industrial Grant. "To support research in avian molecular genetics", S. J. Lamont, 1/01/91 - 12/31/91	26,000
Campbell Institute for Research and Technology. "Interleukin-2 (IL-2), a natural immunoenhancer, as a marker for genetic resistance to disease in chickens", S. J. Lamont, 1/01/89 - 12/31/89	20,000
ISU University Research Grant. "Immunoblot characterization of major histocompatibility complex(MHC) class IV antigens", S. J. Lamont, 5/15/88 - 6/30/89	2,500
ISU University Research Grant. "Genetic control of mitogen responsiveness in chickens", S. J. Lamont, 5/15/87 - 6/30/88	2,500
USDA, NADC, ISU, Industry. "Conference support: the major histocompatibility complex of domestic animal species", C. M. Warner, M. F. Rothschild, S. J. Lamont, 10/23/87 - 10/24/87	43,000
State of Iowa Agricultural Biotechnology Training Grant. "Genetic improvement of disease resistance and reproductive efficiency in pigs and chickens", C. M. Warner, M. Rothschild, S. Ford, S. J. Lamont, 12/01/86 - 6/30/89	20,850
State of Iowa Agricultural Biotechnology Research Grant. "Genetic improvement of disease resistance and reproductive efficiency in pigs and chickens", C. M. Warner, M. Rothschild, S. Ford, S. J. Lamont, 12/01/86 -6/30/89	160,000
BARD Postdoctoral Fellowship. "Jacob Pitcovski support", SI-0026-85, S. J. Lamont, 6/01/86 - 6/01/87	25,000
ISU University Research Grant. "Mixed lymphocyte response of chromosomal recombinants of the major histocompatibility complex", S. J. Lamont, 5/15/86 - 6/30/87	2,500
USDA Biotechnology Competitive Grant. "Molecular analysis of the chicken major histocompatibility complex" 85-CRCR-1-1803, C. M. Warner, S. J. Lamont, 9/30/85 - 9/30/88	100,000
ISU University Research Grant. "Evaluation of indirect selection methods for immune response and disease resistance in chickens", S. J. Lamont, 5/15/85 - 6/30/86	2,500
ISU Foreign Travel Grant. "Austria, Switzerland, the Netherlands, France", S. J. Lamont, 9/09/85 - 9/27/85	800
USDA Animal Health Competitive Grant. "Role of serum complement in pathogenesis of E. coli infection of turkeys", 84-CRSR-2-2449, L. H. Arp, S. J.	70,870

Lamont, 9/15/84 - 9/15/89

ISU University Research Grant. "Genetic control of macrophage activity in chickens", S. J. Lamont, 5/15/84 -6/30/85 2,500

Iowa Science Foundation, "Biotechnology for identification of genes and gene products of the chicken major histocompatibility complex", A. W. Nordskog, S. J. Lamont, 7/01/84 - 1/15/85 4,862

GRANTS TOTAL ~\$20,000,000

## IX. GRADUATE STUDENTS

### Degrees Completed:

Derrick Jamaal Coble, "The effects of biotic and abiotic stressors on gene expression in chickens", 2013 Ph.D. Major: Interdepartmental Genetics. Present position: private tutor.

Erin Elizabeth Sandford, "Whole transcriptome response of chicken spleen and peripheral blood leukocytes to avian pathogenic *Escherichia coli*", 2011. Ph.D. Major: Interdepartmental Genetics. Present position: postdoctoral research associate, University of Michigan

Ceren Ciraci, "Molecular Genetic Assessment of Chicken Macrophage Innate Immunity: Toll-like Receptors, Mechanisms of Action, and Kinetic Transcriptome Profile", 2010, Ph.D., Major: Interdepartmental Genetics, Present position: Postdoctoral research associate, University of Iowa

Sarah Beth Redmond, "Genetic and Dietary Effects on Chicken Heterophil Function and Immune Response to *Salmonella enteritidis*", 2010, Ph.D., Major: Interdepartmental Genetics, Present position: Assistant Professor, Mansfield University (PA)

Jennifer E. Cheeseman, "Avian Immunology, immunogenetics, and host immune response to *Salmonella enteritidis* infection in chickens", 2007, Ph.D.; Major: Immunobiology. Present position: Associate Scientist, University of Minnesota

Jason R. Hasenstein, "Single, several, saturated: multilevel SNP analysis for Salmonella response in young chicks", 2007, Ph.D.; Major: Interdepartmental Genetics. Present position: Associate Scientist, University of Wisconsin

Joseph P. McElroy, "Mapping Quantitative Trait Loci for Economic Traits in Chickens", 2005, Ph.D.; Major: Interdepartmental Genetics (Co-Major Professor: Jack C. M. Dekkers). Present position: biostatistician, the Ohio State University.

Joanne Staats Powell, Creative Component: "Optimization of experimental infections with *Heterakis gallinarum* in young chickens", 2004 M.S.; Major: Professional Agriculture (Off-campus program). Present position: Research Scientist, Merck, NJ.

Huajun Zhou, "Dissection of Polygenic Control of Antibody Kinetics in Adult Chickens", 2002, Ph.D. (Also "Statistical Analysis of Functional Divergence in Gene Families" M.S. 2003). Present Position: Assistant Professor, Poultry Science, University of California-Davis.

Wei Liu, "A Candidate Gene Analysis for Response to *Salmonella Enteritidis* Challenge or Vaccination in Young Chicks", 2002, Ph.D. Present Position: Biostatistician, St. Jude's Childrens Hospital, Memphis, Tennessee.

Lynn Heltemes, "POU domain genes and the immunoglobulin octamer motif in chickens", 1997, Ph.D. (Co-Advisor: C. K. Tuggle). Present Position: Associate Scientist, University of Minnesota

Chung-Hsin Hsu, "Cell-specific and interferon inducible expression of chicken major histocompatibility class II genes", 1997, M.S. (Co-Advisor: S. L. Carpenter). Present Position: Unknown.



Yunfei Chen, "Identification and characterization of a chicken major histocompatibility complex class II gene promotor", 1995, Ph.D. (Co-Advisor: S. L. Carpenter). Present Position: Senior Scientist, ThermoFisher, Fremont, CA.

Sharon T. Franklin, "Effects of Vitamin A (13-cis-retinoic acid) on the Immune System of Cattle", 1993, Ph.D. (Co-Advisors: B. Nonnecke, J. Young). Present Position: Associate Professor, University of Kentucky. (Academic advisor, not research supervisor; therefore, not co-author on publications).

Ronald P. Kean, "Index Selection for Multitrait Immunocompetence in White Leghorn Chickens", 1993, M.S. (Co-Advisor: A. E. Freeman). Present Position: Instructor, University of Wisconsin-Madison.

Edward M. Steadham, "T Lymphocyte Reactivity and Antibody Response to a Synthetic Peptide (Glutamic Acid-Alanine-Tyrosine) as a Marker for Disease Resistance in Chickens", 1991, Ph.D. Present Position: Research Associate II, Iowa State University.

Paula L. Munns, "Lymphocyte Subpopulations in Chickens with Regressing or Progressing Tumors Induced by Rous Sarcoma Virus", 1990, M.S. Present Position: Research Laboratory Technician, Upjohn, Kalamazoo, MI.

Shen Cheng, "Genetic Selection for Immunocompetence in Chickens", 1990, Ph.D. Present Position: Unknown.

Janet E. Fulton, "Ontogeny, expression and molecular characterization of the A blood group system of the chicken", 1989, Ph.D. Present Position: Molecular Geneticist, Hy-Line International, Dallas Center, IA.

Marlene G. Ellis, "Characterization of turkey complement and its role in defense against Escherichia coli infection", 1987, M.S. (Co-Advisor: L. Arp). Present Position: Associate Professor, University of Delaware.

Chong Dae Kim, "Genetic associations of major histocompatibility complex phenotypes with body weight, egg production, and immune response in S1 White Leghorn chickens", 1987, M.S. (Co-Advisor: M. Rothschild). Present Position: Director of Poultry Research, National Livestock Experiment Station, Kyungki-Do, Korea.

Kevin L. Knudtson, "Genetic associations of interleukin-2 levels in the chicken", 1987, M.S. Present Position: Director of DNA Facility, University of Iowa, Iowa City, IA.

#### Current Graduate Students:

Melissa Herrmann, Ph.D. Candidate, Genetics Major. Degree exp 2018

John Hsieh, Ph.D. Candidate, Bioinformatics and Computational Biology Major. Degree exp 2017

Angelica Bjorkquist, Ph.D. Candidate (National Needs Fellow), Genetics Major, Degree exp 2016

Damarius Fleming, Ph.D. Candidate (National Needs Fellow, J. Reecy, co-advisor), Genetics Major, Degree exp 2016

Hongyan Sun, Ph.D. Candidate, Animal Breeding and Genetics Major. Degree exp 2016

Current POS Committees: 6 Ph.D., 1 M.S.  
Have served on 50+ POS Committees

#### Postdoctoral Trainees:

Dr. Chungkao Wang, 2010 - 2013

Dr. Laknath Peiris, 2008-2010

Dr. Behnam Abasht, 2006-2008

Dr. Xianghai Ye, 2004-2006

Dr. Huaijun Zhou, 2002-2004

Dr. Massoud Malek, 2001-2002

Dr. Nader Deeb, 1999-2002

Dr. Yunfei Chen, 1996-1998

Dr. N. Lakshmanan, 1993-1997  
Dr. Edward Smith, 1992  
Dr. Yoram Plotsky, 1991-1992  
Dr. Jacob Pitcovski, 1986-1988  
Dr. Loren Peterson, 1985-1986  
Dr. Lynne Wathen, 1983-1985

Visiting Scholars (International):

Dr. Jianqin Zhang (China)  
Dr. Qinghua Nie (China)  
Ms. Ling Lian (China)  
Dr. Shouqun Jiang (China)  
Dr. Jingdong Hu (China)  
Dr. Guobin Chang (China)  
Dr. Sanjeev Kumar (India)  
Mr. Joseph Powell (Scotland)  
Ms. Fariba Izadi (Canada)  
Ms. Sham Beyene (Netherlands)  
Dr. Ahmed Sayed Ahmed (Fulbright – Egypt)  
Mr. Behnam Abasht (France)  
Dr. Jan van der Poel (Netherlands)  
Mr. Basav Hangalapura (Netherlands)  
Mr. Eyal Koren (Israel)  
Ms. Judith Kramer (Netherlands)  
Dr. Hui Li (China)  
Mr. Huaijun Zhou (China)  
Mr. Jun-gu Choi (Korea)  
Mr. Bart Buitenhuis (Netherlands)  
Dr. Steffen Weigend (Germany)  
Dr. Avigdor Cahaner (Israel)  
Dr. Laila Goher (Egypt)  
Dr. Jose Espinoza-Velazquez (Mexico)  
Dr. Pierre Pare (Canada)

## **X. RESPONSIBILITIES**

### **TEACHING (20% for majority of time; presently at 13%):**

Graduate Studies 565 – Responsible Conduct of Research (50%). Offered alternate years, since 2013.  
Animal Science 540 - Genetic Regulation of Livestock Immunology (100%). Offered alternate years, since 1985.  
Animal Science 653A - Applied Poultry and Swine Breeding (50%). Offered alternate years, since 1983.  
Animal Science 658 - Seminar in Animal Breeding and Genetics. Responsibility, about every 7 years.  
Animal Science 452X – Animal Industry and Veterinary Genetics (poultry section, 6 lectures)  
Animal Science 699A - Section LM, Research in Animal Breeding (100%).  
IMB 699A - Section LM, Research in Immunobiology (100%)  
Gen 699 – Research in Genetics (100%)  
Animal Science 490G - Independent Study in Poultry Science (100%). Offered on request.  
Animal Science 224X - Companion Animal Science (course development team)  
Animal Science 451X - Biotechnology in Animal Science (course development team)  
Major Professor for graduate students

### Guest Lecturer:

Animal Science 352 - Livestock Improvement through Animal Breeding  
Animal Science 353 - Designing Breeding Programs for Livestock  
Animal Science 451 - Animal Biotechnology  
Animal Science 501 - Survey of Animal Science Disciplines

Animal Science 510 - Applied Animal Breeding  
University Studies 321 - Genetic Manipulation of Animals

Mentorship:

Postdoctoral trainees and visiting scholars  
Graduate student research rotations (Interdepartmental majors of Genetics; Immunobiology; Bioinformatics and Computational Biology; USDA National Needs fellows in Animal Biotechnology)  
Undergraduate research programs (George Washington Carver, Howard Hughes Internships, Program for Women in Science and Engineering, Minorities in Agriculture Program, NSF-REU Summer Internships)

**RESEARCH (80% for majority of time, presently at 52%):**

Research in poultry immunogenetics and poultry molecular genetics is focused on elucidating the molecular genetic control of complex biological traits including resistance to the negative impacts of heat stress, disease resistance, immune response, and production traits. The overall goals are to elucidate basic mechanisms of genetic regulation of fitness and health in poultry, to identify genetic markers of value in selecting heat-resistant, disease-resistant and production-efficient poultry, and to isolate and characterize genes and proteins that are important in fitness and performance. Research projects include studies of heat stress, growth and development, DNA markers for biological fitness traits, and biodiversity. Approaches include designed mating of chicken resource populations, detailed evaluation of biological performance, laboratory analysis of genetic variation in structure and expression, surveys of biodiversity, statistical testing of associations between genotypes and phenotypes, or among phenotypes, and bioinformatic analyses of data. Collaborative studies on application of genomic technologies in poultry breeding.

**ADMINISTRATION (33%, December 1, 2010 - present):**

Equity Advisor, College of Agriculture and Life Sciences. Responsible for leading the College of Agriculture and Life Sciences' ADVANCE effort. Work with college leadership to develop programs, policies, and distribute information to improve working environments. Serve as a liaison between the College of Agriculture and Life Sciences and ADVANCE. Lead and provide support for ADVANCE events on campus, and encourage participation by others in ADVANCE events.

**ADMINISTRATION (50%, October 1, 2001 - July 31, 2003):**

Chair, Department of Animal Science. Provide effective, visible leadership to department. Maintain strong, positive relationships with major stakeholder organizations. Serve as department's advocate and point-of-contact with college administration. Coordinate activities of departmental administrative team. Effectively and responsibly manage department's fiscal, physical and personnel resources. Allocate program resources in recognition of priorities, needs, and performance. Assess performance of faculty; provide constructive feedback and appropriate reward through salary and other recognition. Supervise departmental administrative staff. Maintain open communication channels with faculty, staff and students. Enhance diversity in personnel and programs. Pro-actively plan future directions of department. Prioritize needs for new faculty; recruit and hire excellent new faculty; facilitate their success. Set standards of excellence for all departmental activities.

**ADMINISTRATION (50%, 1994-1997):**

Assistant Director, Iowa Agriculture and Home Economics Experiment Station. Assist in development and administration of research in the Iowa Agriculture and Home Economics Experiment Station (IAHEES), including various issues of interest to the College of Agriculture and IAHEES. Strengthen opportunities for interdisciplinary research and graduate education, assist with identification of extramural grants and contracts. Provide coordination of the station's research project system. Develop programs to enhance faculty success in securing external grants. Serve as administrative advisor for regional projects. Represent the IAHEES and College of Agriculture as needed within the university and to clientele and commodity groups, legislative groups, and the general public.

**EXTENSION:** No Formal Appointment

Service to industry via dissemination of research results in published and oral formats, presentations at industry meetings, answering phone and email inquiries on topics of poultry genetics, immunology and molecular biology, on-site visits to companies.

**INTERNATIONAL ACTIVITIES:** No Formal Appointment

A. Foreign Travel

<u>Year</u>	<u>Location</u>	<u>Function</u>
2012	Scotland	Present research at Avian Immunology Research Group meeting
2012	Australia	Present research at International Society of Animal Genetics conference
2011	Scotland	Serve on industry advisory board; present research at European Poultry Breeders Roundtable
2011	Scotland	Present research at International CHICK meeting
2010	Spain	Invited presentation in Ensminger International School
2010	Scotland	Chair session at International Society of Animal Genetics
2010	Germany	Participation in World Congress of Genetic Applied to Livestock Production
2009	France	Present research paper at conference
2009	France	Review of INRA (French Federal Research) animal genetics and genomics programs
2009	China	Deliver keynote presentation at national scientific conference
2008	Scotland	Present research at Intl. Symposium on Animal Functional Genomics
2008	Netherlands	Serve on Scientific Committee for International Society of Animal Genetics
2008	Australia	Invited presentation at World's Poultry Congress
2007	France	Participate in College of Agriculture delegation to finalize cooperative agreement with INRA
2007	Israel	Visit with research collaborators in BARD project, draft new proposal
2007	Canada	Participate in NE-1016 multistate research meeting
2007	France	Serve on Scientific Organizing Committee for Animal Genomic for Animal Health Symposium
2007	Canada	External examiner on Ph.D. exam at University of Guelph
2006	Scotland	Working group meeting with industrial research collaborators
2006	France	Present research paper at Avian Immunology Research Group symposium
2006	Brazil	Invited presentation at World Congress of Genetics Applied to Livestock production
2006	Canada	Invited presentation at Ancillary Scientist's Symposium, and Informal Nutrition Symposium, of Poultry Science Association annual meeting
2005	Netherlands	External examiner on Ph.D. defense, invited research presentation and visit with research collaborators at Wageningen University

2005	Brazil	Invited presentation at AviSui2005 Conference
2005	Croatia	Serve as member of Scientific Organizing Committee and session chairperson at the Poultry Genetics Symposium 2005
2004	Scotland	Invited presentation at Genesis-Faraday Symposium and invited seminar at Roslin Institute
2004	United Kingdom	Invited presentation at Joint Meeting of British Society of Animal Science and World's Poultry Science Association
2004	Turkey	Service on Scientific Organizing Committee and invited presentation at World's Poultry Congress
2004	Canada	Present research paper at International Veterinary Immunology Society meeting
2004	Germany	Present research paper at Avian Immunology Research Group meeting
2003	Israel	Research
2003	China	Research, Invited lectures at Northeast Agricultural University, Jiangsu Poultry Institute, Yangzhou University
2003	Turkey	Professional Society Service, World's Poultry Science Association
2003	Netherlands	Conference Participation, European Poultry Genetics Conference
2002	France	Invited paper presentation, 2 <sup>nd</sup> International Symposium on Candidate Genes for Animal Health and World Congress of Genetics Applied to Livestock Production
2002	Germany	Professional Society Service, World's Poultry Science, and Conference Participation, European Poultry Symposium
2002	Cyprus	Invited paper presentation, Avian Immunology Research Group
2001	China	Research
2001	Sweden	Paper presentation, International Veterinary Immunology Symposium
2001	Turkey	Invited paper presentation, International Symposium on Poultry Meat Quality
2000	Canada	Professional Society Service, World's Poultry Association Research and Professional Society Service, World's Poultry Science
1999	Israel	Research collaboration
1998	New Zealand	Research and Professional Society Service, International Society of Animal Genetics
1998	Israel	Research collaboration
1998	Finland	Paper presentation, Avian Immunology Research Group
1997	Czech Republic	Research, Paper presentation, AVIAGEN Conference
1997	Germany	Research, Company visit (enhance teaching)
1997	New Zealand	Professional Society Service, International Society of Animal Genetics
1996	France	Research and Professional Society Service, International Society for Animal Genetics
1996	Austria	Research, Avian Immunology Research Group
1995	France	Professional Society Service, International Society for Animal

		Genetics
1995	Israel	Research
1994	Czech Republic	Professional Society Service, International Congress for Animal Genetics
1994	England	Paper Presentation, Avian Immunology Research Group
1993	Czech Republic	Professional Society Service, International Society for Animal Genetics
1993	Israel	Research, Invited Seminar, Hebrew University of Jerusalem, Rehovot
1992	Netherlands	Professional Society Service; Research; Paper Presentation, World's Poultry Congress; External Examiner of Ph.D. Thesis, Wageningen Agricultural University
1992	Switzerland	Professional Society Service; Invited Paper, International Congress for Animal Genetics
1991	Israel	Research, Invited Seminars, Hebrew University of Jerusalem, Rehovot and Jerusalem Campuses
1990	Scotland	4th World Congress of Genetics Applied to Livestock Production, Paper Presentation
1990	Belgium	Research
1990	Germany	Invited Seminar, Celle Small Animal Research Institute
1990	Netherlands	Faculty Improvement Leave, Research
1988	Netherlands	Invited Seminar, Spelderholt Poultry Research Center
1988	Canada	Invited Paper, American Dairy Science Association
1987	Canada	Invited Seminar, McGill University
1987	Scotland	Invited Paper, British Poultry Breeders Roundtable
1985	Netherlands	Invited Seminar, Wageningen Agricultural University
1985	Switzerland	Research
1985	Austria	Paper Presentation, Avian Immunology Research Group
1985	France	Invited Seminar, INRA

- B. Hosted International Visiting Scientists for periods of one to twelve months: Netherlands, Canada, China, France, India, Mexico, Egypt, Israel, Germany, Korea
- C. Participated in international research collaborations: Avian Cytokine Research (UK); International Chicken SNP Consortium (global project), Genetics of Immune Response and Disease Resistance in Chickens (Germany, US), Chicken MHC RFLP Standardization Project (Austria, France, Israel, Netherlands, US), Mapping Sequence Tagged Sites in Chickens (UK, US), Molecular Markers for Disease Resistance (Israel, US), Marek's Disease and Major Histocompatibility Complex Class II Genes (Canada, US).

**SERVICE:**

Department:

Awards and Recognition Committee, 2008-present  
Seminar Committee, 2013 - present  
Art Committee, 2010 - present  
Graduate Curriculum and Awards committee, 2010 - present

Faculty Mentor (Susan Carpenter), 2009-present  
Faculty Mentor (Mike Persia), 2009-present  
Faculty Search Committee (Poultry Nutrition), 2008 - 2009  
Faculty Search Committee Chair (Muscle Biology), 2007-2008  
Co-Organizer, Poultry Science Day, 2006  
Lush Chair Faculty Search Committee, 2005-2006  
Faculty Mentor (V. Wilke), 2005-2007  
Faculty Mentor (M. Ellinwood), 2004-present  
Faculty Mentor (J. Reecy), 1999-2010  
Faculty Search Committee (Bioinformatics), 1999-2000  
Professor-in-Charge, Poultry Farm, 1999-2003  
Faculty Search Committee (Nutrition – 2), 1999-2000  
Graduate Curriculum, 1997-2007  
Faculty Search Committee (Cattle Molecular Geneticist), 1997-1998  
Faculty Personnel Affairs Committee, 1985-1998  
Laboratory Animals Committee, 1987-1995  
Faculty Governance Committee, 1992-2008 (Chair, 2005)  
Faculty Search Committee (Environmental Specialist), 1996  
Research Strategic Planning Committee, 1995  
Departmental Mission Statement Committee, 1995  
Faculty Search Committee (Swine Geneticist-2), 1994-1996  
Contact Person, Women in Science and Engineering Program, 1993  
Preliminary Evaluation Committee, Promotion and Tenure, 1993, 1996, 1999, 2000, 2010  
Finance Chair, PSA-85 Host Committee, 1983-1985  
Acting Coordinator, Poultry Section, 1987-1988  
Co-Chair, Molecular Biology/Gene Mapping Faculty Search, 1990  
ASAS-90 Host Committee, 1990  
Chair, Faculty Improvement Leave Committee, 1991-1992

College:

Search Committee, Assistant Dean of Diversity, 2012  
Dean's Cabinet, 2010 - present  
Strategic Planning Committee, 2011  
Dean's Evaluation Committee, 2009-2010  
Search Committee Chair, FSHN Chair, 2003-2004  
Strategic Planning Committee, Research Subcommittee Chair, 1999-2000  
Search Committee, Dean of Agriculture, 1999-2000  
Coordinating Council on Technology Transfer Representative, 1994-1997  
Reviewer, IAHEES Project Outlines, Continuous  
Biotechnology Council Representative, 1991-1994  
Undergraduate Honors Committee, 1993-1995  
Visiting Professor Program, 1993-1994  
College Strategic Planning Committee-Research Subcommittee, 1993-1994  
Search Committee, Executive Associate Dean of Agriculture, 1994-1995

University:

Publication Subvention Grants committee, 2012-present  
Interdepartmental Genetics Supervisory Committee, ex officio, 2011 - 2014  
Interdepartmental Genetics Admissions Committee, 2008 - present  
ADVANCE Council, 2010 - present  
Hosted Gene Ontology (GO) Workshop at ISU, presented by AgBase personnel, 2009  
Center for Integrated Animal Genomics Supervisory Committee, 2008 – present  
Interdepartmental Immunobiology Admissions Committee, 2008 - present  
Distinguished Professor Selection Committee, 2007 - 2009  
President's Budget Advisory Committee, 2005 - 2006  
Bailey Research Award Selection Committee, 2002  
Provost Search Committee, 2002

Interdepartmental Genetics Graduate Affairs Committee, 2000-2001  
Chair, ISU Immunobiology Interdepartmental Graduate Program, 1987-1990; 1997-1999  
Osborn Club Steering Committee, 1998-2002  
Interdepartmental Genetics Workshop Committee, 1998  
Interdepartmental Genetics Recruiting Committee, 1995-1998  
Coordinating Council on Technology Transfer, 1994-1997  
Microbiology, Immunology and Preventive Medicine Departmental Internal Review Committee, 1993-1994  
ISU Chapter of Sigma Xi, President, 1994-1995 (Executive Committee, 1991-1995)  
Biotechnology Council, 1991-1994  
Zaffarano Prize Selection Committee, 1992  
Microbiology, Immunology and Preventive Medicine Ad hoc Curriculum Committee, 1991  
Chair, Microbiology, Immunology and Preventive Medicine Department DEO Search, 1991-1992  
Review Committee, Bioethics Symposium Participants, 1991  
Bioethics Committee, 1990-1991  
University Research Grants Proposal Review Committee, 1990  
Microbiology Department Faculty Search, 1990  
Supervisory Committee, Center for Immunity Enhancement in Domestic Animals, 1988-1995  
Biochemistry Department Faculty Search, 1988  
Animal Facilities Inspection Committee, 1987-1991  
Animal Facilities Long-Range Planning Committee, 1987-1991  
Provost Search Committee, 1987  
Chair, Biological Sciences Program of Study Review Committee, 1988-1989 (Member, 1985-1989)  
Graduate Faculty Cabinet, 1988-1989  
Immunobiology Supervisory Committee, 1984-1990, 1992-1995, 1997-2000

#### Outreach:

As a service to the university, I worked with information services units to produce features (published or videotape) on aspects of my research program. These were used to enhance the ISU image to various audiences (incoming freshman, alumni, sports fans, athletic recruits, etc.). An ISU television commercial for use at basketball game half-time was produced in my lab. I provided an audio interview used in the university orientation videotape. Several feature articles in university publications highlighted training of undergraduates in special programs (i.e. Women in Science, Undergraduate Research Assistants) in my laboratory, or my laboratory's research programs.

#### Profession:

##### American Association for the Advancement of Science

Review panel, Research Competitiveness Service (RCS) for King Abdulaziz City for Science and Technology (national science agency of Saudi Arabia), 2011

##### Poultry Science Association

Award Committee, Early Achievement (Research, Industry, Teaching, Extension), 2008, 2009 (chair)  
Associate Editor (Breeding and Genetics), Poultry Science, 2002-present  
Guest Editor, Poultry Science, Invited reviews in poultry genomics, 2005-2006  
Scientist Liaison Committee, 1987-1997  
Associate Editor (Immunology), Poultry Science, 1988-1995  
Co-organizer, Current Advances in Immunology Symposium, 1993  
Graduate Student Research Manuscript Award Committee, 1989  
Chair, Immunology Program Committee, 1987

##### International Society of Animal Genetics

Co-chair, Genetics of Immune Response Workshop, 2012 (Cairns, Australia)  
Chair, Genetics of Immune Response Workshop, 2010 (Edinburgh)  
Standing Committee Chair, Genetics of Immune Response, 2008-2010  
Scientific Organizing Committee, Year 2008 Conference (Amsterdam)



Organizing Committee, Year 2000 Conference (Minneapolis)  
Executive Committee, 1996-2000  
Secretary, 1992-1996  
Co-organizer, Avian MHC Workshop, 1990

#### Sigma Xi

President, ISU Chapter, 1994-1995  
Executive Committee, ISU Chapter, 1991-94

#### World's Poultry Science Association

Scientific Program Committee, World's Poultry Congress 2004 (Istanbul), 2000-2004  
Scientific Program Committee, World's Poultry Congress 2000 (Montreal), 1995-2000  
USA Branch Director, 1992-1996

#### Other

BARD Technical Advisory Committee, 2013-2015  
USDA-OSQR NP 101 Panel 2; Chair, 2012  
EU-US Animal Biotechnology Working Group, 2011  
USDA-ARS Retrospective Review Panel NP101: Animal Production and Animal Welfare, 2011  
NRSP-8 Poultry Workshop chair, Plant and Animal Genome meeting, 2011-2012  
External Review Panel, INRA Genetics and Genomics Programs, 2009  
External Review Panel: Animal Science Department, Cornell University, 2009  
Swedish Agricultural University, External Expert Panel to hire professor in Animal Molecular Genetics, 2008-2009  
NC-1170, Secretary, 2008-2009; Chair, 2010-2011  
NE-1034, Secretary, 2008; Chair, 2009  
USDA-ARS-NADC, Scientist Search Committee (Research Microbiologist/VMO) 2007  
Kansas State University, Distinguished Professor Review panel, 2008  
Midwest Poultry Research Program Panel, 2005  
DOD-TSCRP Integration Panel, 2005-2008  
NIH Special PO1 Review Panel, 2004  
BARD Review Panel (Animal Production), 2004, 2005, 2006 (Chair), 2007 (Chair)  
CSREES Review Team, Department of Poultry Science, University of Georgia, 2002.  
Associate Editor, *Journal of Heredity*, 2000-present  
Editorial Board, *Animal Biotechnology*, 1989-present  
Editorial Advisory Board, *Poultry and Avian Biology Reviews*  
Scientific Advisory Board, AKC – Canine Health Foundation Competitive Grants Program  
Chair, Research and Education Committee, National Tuberos Sclerosis Association, 1996-2002  
Co-Editor, *The Major Histocompatibility Complex Region of Domestic Animal Species*,  
CRC Press, Inc., 1996  
CSRS Review Team, Poultry Science Department, University of Wisconsin, 1994  
Ad hoc North Central Committee for Evaluating Alternative Management of Regional  
Research, 1993-1994  
USDA National Research Initiative Competitive Grants Program Review Panel in Animal Molecular  
Genetics/Genomics, 1992, 1994, 1997, 2004, 2005 (Chair), 2008 (Chair)  
USDA National Research Initiative Competitive Grants Program Review Panel in Molecular and Cellular  
Basis of Animal Disease, 1991  
NSERC Review Team of Poultry Biotechnology Industrial Chair, McGill University, 1989  
CSRS Review Team, Avian and Poultry Science Department, Cornell University, 1988

## **XI. MAJOR INVITED PRESENTATIONS OUTSIDE OF IOWA STATE UNIVERSITY**

<u>Year</u>	<u>Title of Paper or Presentation</u>	<u>Meeting/Location</u>
2012	Genetics and genomics of host response	University of Delaware, Department of Animal

	to food-safety bacterial infection in chickens	and Food Sciences
2011	Deciphering the Genetics of Resistance to Salmonella in Poultry	Storer Lecture, Department of Animal Science, University of California - Davis
2010*	Genetics of Disease Resistance	Ensminger International School, Llieda, Spain
2009	Integrated Genomics to Enhance Host Resistance to Bacterial Colonization in Poultry	China National Poultry Conference, Harbin, China
2009	Genes, Immunity and Commercial Poultry: Lessons from the Chicken 3K SNP Chip	North Carolina State University, Department of Poultry Science
2008*	SNP Markers for Production and Egg Quality QTLs in Layer Lines	Avian Genomics Symposium, Mississippi State University, Starkville
2008	<i>Salmonella</i> Saga: Integrated Approaches to Understand the Genetics of Host Response to Bacterial Pathogens in Chickens	University of Maryland, "One-Day Wonder", College Park
2008*	Integrated Genomics to Enhance Host Resistance to Bacterial Colonization in Poultry	World's Poultry Congress, Brisbane, Australia
2008	Integrated Genomics to Enhance Host Resistance to Bacterial Colonization in Poultry	Emerging Infectious Diseases Symposium, Ames, IA
2007	Poultry Genetics and Genomics: Unscrambling the Egg	INRA-ISU Research Linkage Summit, Paris, France
2007	A Bird's-Eye View of the QTL Landscape*	National Breeders Roundtable, St. Louis, MO
2007	A Delicate Balance: the Immune System and Production in Livestock	Kemin Lectures for the Advancement of the Sciences, Kemin Industries, Des Moines, IA
2007	High Resolution, Advanced Intercross Mapping of Host Resistance to Salmonella Colonization*	Animal Genomics for Animal Health Symposium, Paris, France
2007	Poultry Genetics and Genomics at ISU: Unscrambling the Egg and Meeting the World's Need for Meat	Cobb-Vantress, Inc., Siloam Springs, AR
2007	Salmonella Saga: Integrated Approaches to Understand the Genetics of Host Response to Bacterial pathogens in Chickens	Interdepartmental Genetics Program, Texas A & M University, College Station
2006	Variation in Chicken Gene Structure and Expression associated with Food-Safety Pathogen Resistance**	Stadler Genetics Conference, Columbia, MO
2006	Integrated, Whole-Genome Approaches to Enhance Disease Resistance in Poultry*	World Congress of Genetics Applied to Livestock Production, Belo Horizonte, Brazil
2006	Impact of Genetic Variation in the Immune System on Production Traits and Metabolic Challenges in Poultry	Informal Nutrition Symposium, Poultry Science Association, Edmonton, Alberta, Canada
2006	Analysis of Quantitative Disease-	Poultry Science Association Ancillary Scientists

	Resistance Traits	Symposium, Edmonton, Alberta, Canada
2005	A Bird's-eye View of Progress in Avian Immunology	25 <sup>th</sup> Anniversary Symposium, American Association of Veterinary Immunology, St. Louis, MO
2005	Genetic Resistance to Poultry Diseases	AveSui2005, Florianopolis, Brazil
2005	Integrated Approaches to Understanding the Genetics of the Chicken's Response to Salmonella	Wageningen University, the Netherlands
2005	Integrated Approaches Toward Cloning of QTLs for Resistance of Chickens to Salmonella	Plant and Animal Genome XIII, San Diego, CA
2004	Candidate Genes and Response to Salmonella in Chickens	Genesis-Faraday Symposium, Edinburgh, Scotland
2004	Candidate Genes for Important Biological Traits in Poultry	Roslin Institute, Scotland
2004	Comparative Genetic Approaches to Enhancing Immunity in Poultry	Comparative Biomedical Sciences Seminar, University of Minnesota
2004	New Advances in Controlling Poultry Disease	Joint Meeting of British Society of Animal Science and World's Poultry Science Association, UK Branch, York, United Kingdom
2004	Identification of Genes Affecting Immunity and Disease Resistance	World's Poultry Congress, Istanbul, Turkey
2004	Candidate Genes Associated with Response to Salmonella Enteritidis in Young Chickens	International Veterinary Immunology Society, Quebec City, Quebec, Canada
2004	Early Gene Expression Changes After Salmonella Challenge of Young chickens	Avian Immunology Research Group Meeting, Munich, Germany
2003	Candidate Genes for Important Biological Traits in Poultry	Northeast Agricultural University, Harbin, China
2003	Genome Scanning for Molecular Markers Linked to Important Biological Traits in Poultry	Northeast Agricultural University, Harbin, China
2003	Genetics of Immune Response and Disease Resistance in Poultry	Jiangsu Poultry Institute, Yangzhou, China
2003	Genetics of Immune Response and Disease Resistance in Poultry	Yangzhou University, Yangzhou, China
2003	Genetic Approaches to Improving Health in Poultry	Genetics of Pig Health Symposium, Des Moines, IA
2002	Avian Immunogenetics in the Era of Maps and Microarrays	Avian Immunology Research Group, Limosol, Cyprus
2002**	Candidate Genes for Response to Salmonella in Poultry	Candidate Genes for Animal Health, International Symposium, Montpellier, France
2002*	Candidate Genes for Immune Response and Disease Resistance in Chickens	National Breeder's Roundtable, St. Louis, MO
2002**	Unique Population Designs Used to Address Molecular Genetics Questions in Poultry	Poultry Science Association, Newark, DE
2001*	Utilizing Unique Genetic Populations to	International Symposium on Animal Breeding

	Identify Molecular Markers Associated with Economic Traits in Poultry	and Genetics, Japanese Society of Animal Breeding and Genetics, Tokyo, Japan
2001*	Discovering the Molecular Genetics of Health and Biological Homeostasis in Poultry	International Workshop on Animal Genome Analysis, Society for Techno-Innovation of Agriculture, Forestry and Fisheries, Tsukuba, Japan
2001*	Genetics of Body Composition in a Novel Broiler Cross	XV European Symposium on the Quality of Poultry Meats, WPSA Turkish Branch, Kusadasi, Turkey
2000	Pursuing Genes for Fitness in Poultry	Poultry Science Department, Pennsylvania State University, State College, PA
2000	Poultry Production in the Future: Genetics and Health	Poultry Health and Management Extension Series, Pennsylvania
1997**	Impact of Genetics on Disease Resistance	Infectious Poultry Disease Symposium, Poultry Science Association, Athens, Georgia
1996*	Current Molecular Biologic Techniques in Selection of Poultry	Duck Research Symposium, Lake Geneva, Wisconsin
1995**	Chicken Genome Mapping Strategies: Expressed Sequence Tags, Heterologous Genes, and Genetic Regulatory Elements	USDA-ARS Symposium: Biotechnology's Role in the Genetic Improvement of Farm Animals, Beltsville, Maryland
1994*	Application of Biotechnology in the Poultry Breeding Industry	Beef Improvement Federation Meeting, Des Moines, Iowa
1994**	Transfection of a Putative Chicken MHC Class II Gene Promotor Region into Chicken Macrophages	Avian Immunology Research Group, Reading, ENGLAND
1993**	Immunogenetics	Avian Immunology Symposium, Poultry Science Association, East Lansing, Michigan
1993	Anonymous DNA Markers for Biological Traits in Chickens	Hebrew University of Jerusalem, Department of Genetics, Rehovot, ISRAEL
1992+	The Immune System: Distinguishing Self from Non-Self	Current Issues in Nutrition, Satellite Videoteleconference, ISU
1992	The Chicken Major Histocompatibility Complex	International Conference on Animal Genetics, Genetics of Immune Response Workshop, Interlaken, SWITZERLAND
1991**	The Avian Major Histocompatibility Complex	Keystone Symposium: Manipulation of the Avian Genome, Lake Tahoe, CA
1991*	Selection for Immune Response in Chickens	National Breeders Roundtable, St. Louis, MO
1991	Genetic Markers for Disease Resistance in Chickens	Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, ISRAEL
1991	The Chicken Major Histocompatibility Complex	Hebrew University of Jerusalem, Faculty of Life Sciences, Jerusalem, ISRAEL
1991	The Major Histocompatibility Complex and Genetic Markers for Disease Resistance in Chickens	University of Illinois, Department of Animal Science, Urbana, IL
1990**	Immunogenetics and the MHC	North Central Avian Disease Conference, Columbus, Ohio

1990	Immunogenetics and Disease Resistance in Poultry	Central Veterinary Institute, Lelystad, The NETHERLANDS
1990	The Major Histocompatibility Complex, Immunogenetics, and Disease Resistance in Poultry	Institute for Small Animal Research, Celle, GERMANY
1990	Poultry Research at Iowa State University	Spelderholt, The NETHERLANDS
1990	Poultry Immunogenetics	Wageningen University, Department of Animal Husbandry, The NETHERLANDS
1990	Association of Production Traits with the Chicken MHC	International Conference on Animal Genetics, East Lansing, MI
1989 *	Current Aspects of Immunity as Related to Genetics	National Meeting on Poultry Health and Condemnations, Ocean City, Maryland
1988**	The Chicken Major Histocompatibility Complex in Disease Resistance and Poultry Breeding	American Dairy Science Association Meeting, Edmonton, Alberta, CANADA
1988 *	Immunogenetics, the Major Histocompatibility Complex, and Disease Resistance in Poultry	Western Poultry Disease Conference Biotechnology Workshop, Davis, California
1988	Poultry Immunogenetics	Wageningen University, Department of Animal Husbandry, The NETHERLANDS
1988	Poultry Immunogenetics	Spelderholt Poultry Research Center, Beekbergen, The NETHERLANDS
1987 *	Classical and New Technologies for Analysis of the Chicken Major Histocompatibility Complex Genes	National Breeders Roundtable, St. Louis, Missouri
1987 *	Analysis of the Chicken Major Histocompatibility Complex	British Poultry Breeders Roundtable, Edinburgh, SCOTLAND
1987	Analysis of the Chicken Major Histocompatibility Complex	University of Guelph, Department of Animal and Poultry Science, Guelph, Ontario, CANADA
1986**	New Technologies and the MHC	Immunology Symposium, Annual Poultry Science Association Meeting, Raleigh, North Carolina
1986 *	Regulation by Genetic Engineering of Proteins Affecting Animal Health	Food Animal Research Symposium, Lexington, Kentucky
1986	The Avian MHC	USDA Regional Poultry Research Lab, East Lansing, Michigan
1985	Major Histocompatibility Complex Associations with Immune Response and Disease Resistance	Wageningen University Department of Animal Husbandry, The NETHERLANDS
1985	New Technologies in Genetic Resistance to Disease	Wageningen University, Department of Animal Husbandry, The NETHERLANDS
1985	Monoclonal Antibodies Directed Against Chicken Erythrocyte and Lymphocyte Surface Molecules	Avian Immunology Workshop, Innsbruck, AUSTRIA
1985	Chicken MHC Associations with Immune Response and Disease Resistance	Avian Immunology Workshop, Innsbruck, AUSTRIA

1985	Major Histocompatibility Complex in Chickens	Station for Quantitative and Applied Genetics, INRA, Jouy-en- Josas, FRANCE
1985	Poultry Immunogenetics	University of Massachusetts, Department of Veterinary and Animal Sciences
1985	Poultry Immunogenetics: Conventional and New Technologies for Analysis of the Major Histocompatibility Complex	University of New Hampshire, Department of Animal Science
1984	Effect of Genetic Selection Immune Response	University of Wisconsin, Poultry Science Department
1984	The B Complex	NC-103 Swine Breeding Technical Committee
1984	Genetic Engineering	Iowa Poultry Association Fall Festival
1984	The Chicken Major Histocompatibility Complex	University of Minnesota, Animal Science Department

\*Resulted in full-length paper in meeting proceedings.

\*\*Resulted in peer-reviewed journal paper or book chapter.

+Resulted in video tape lecture deposited in ISU library, used as class resource.

## XII. PUBLICATIONS

### REFEREED JOURNAL PAPERS:

- Sun, I., Lamont, S.J., Cooksey, A.M., McCarthy, F., Tudor, C.O. Vijay-Shanker, K., DeRita, R.M., Rothschild, M., Ashwell, C. Persia, M. E., and Schmidt, C. J. (in review) Transcriptome response to heat stress in a chicken hepatocellular carcinoma cell line. BMC Genomics
- Kim, D. K., Lillehoj, H.S., Jang, S.I., Lee, S.H., Hong, Y.H., and Lamont, S.J. (in review). Genetically disparate Fayoumi chicken lines show different response to avian necrotic enteritis. Poultry Sci.
- Lee, S.H., Dong, X., Lillehoj, H.S., Lamont, S.J., Suo, X. (in review) Comparing immune-response to *Eimeria tenella* in two genetically B-complex disparate Fayoumi chicken lines. Poultry Sci.
- Lee, M.O., Yang, E., Morisson, M., Huang Y.-Z., Cheng, H.H., Muir, W.M., Lamont, S.J., Lillehoj, H.S., Lee, S.H., and Womack, J.E. (in review) Mapping and genotypic analysis of NK-lysin gene in chicken. Genet. Sel. Evol.
- Li, J., Li, R., Li, Q., Wang, Y., Hu, X., Li, L., Feng, C., Zhao, Y., Gu, X., Liang, F., Lamont, S.J., Hu, S., Zhou, H., and Li, N. (in review) Single base resolution DNA methylomes reveal significant genome-wide methylation differences between two genetically distinct chicken lines. PLoS ONE.
- Nie, Q., Jia, X., Li, Z., Zheng, X., Xu, H., Sandford, E.E., Zhang, X., Nolan, L.K. and Lamont, S.J. (in review) Systematic discovery of spleen miRNAs involved in host response to avian pathogenic *Escherichia coli* (APEC) by deep sequencing and integrated analysis. DNA Research
- Coble, D. J., Fleming, D.F., Persia, M. P., Ashwell, C.M., Rothschild, M. F., Schmidt, C.J., and Lamont, S.J. (in revision after first review) RNA-seq analysis of broiler liver transcriptome reveals novel responses to heat stress. BMC Genomics.
- Ji, B., Middleton, J.L., Ernest, B., Saxton, A.M., Lamont, S.J., Campagna, S. R., and Voy, B.H. (accepted in 2014) Genetic leanness in domestic chickens is associated with evidence of increased fatty acid oxidation in white adipose tissue. Physiological Genomics
- Abernathy, J., Li, X., Jia, X., Chou, W., Lamont, S.J., Crooijmans, R., and Zhou, H. (accepted in 2013) Copy number variation in Fayoumi and Leghorn chickens analyzed using array comparative genomic hybridization. Animal Genetics
- Wang, Y., Lupiani, B., Reddy, S., Lamont, S.J., and Zhou, H. (accepted in 2013) RNA-seq analysis revealed novel genes and signaling pathway associated with disease resistance to avian influenza virus infection in chickens. Poultry Sci.
- Wang, C., Habier, D., Peiris, L., Wolc, A., Kranis, A., Watson, K., Avendano, S., Garrick, D., Fernando, R., Lamont, S., Dekkers, J. 2013. Accuracy of genomic prediction using an evenly spaced, low-density SNP panel in broiler chickens. Poultry Sci. 92:1712–1723
- Cheng, H.H., Kaiser, P., and Lamont, S.J. 2013. Integrated genomic approaches to enhance genetic resistance in chickens. Annu. Rev. Anim. Biosci. 2013. 1:239–260
- Coble, D.J., Sandford, E. E., Ji, T., Abernathy, J., Fleming, D., Zhou, H., and Lamont, S.J. 2013. Impacts of *Salmonella enteritidis* infection on liver transcriptome in broilers. Genesis 51:357–364
- Kaiser, M.G., Block, S.S., Ciraci, C., Fang, W., Sifri, M., and Lamont, S.J. 2012. Effects of dietary vitamin E type and level on LPS-induced cytokine mRNA expression in broiler chicks. Poultry Sci. 91:1893-1898.
- Lian, L., Ciraci, C., Chang, G., Hu, J., and Lamont, S.J. 2012. NLRC5 knockdown in chicken macrophages alters response to LPS and poly (I:C) stimulation. BMC Vet. Res. 8:23 doi:10.1186/1746-6148-8-23
- Lian, L., Qu, L., Chen, Y., Lamont S. J., and Yang, N. 2012. A systematic analysis of miRNA transcriptome in Marek's disease virus-induced lymphoma reveals novel and differentially expressed miRNAs. PLoS ONE 7(11): e51003. doi:10.1371/journal.pone.0051003

- Lian, L., Sun, H. Qu, L., Chen, Y., Lamont, S., Yang, N. 2012. Gene expression analysis of host responses to Marek's disease virus infection in susceptible and resistant spleens of chickens. *Poultry Sci.* 91: 2130-2138
- Nie, Q., Sandford, E.E., Nolan, L.K., Zhang, X., Lamont, S.J. 2012. Deep sequencing-based transcriptome analysis of chicken spleen in response to avian pathogenic *Escherichia coli* (APEC) infection, *PLoS ONE* 7(7): e41645. doi:10.1371/journal.pone.0041645
- Sandford, E.E., Orr, M., Li, X., Zhou, H., Johnson, T.J., Kariyawasam, S., Liu, P., Nolan, L.K., Lamont, S.J. 2012. Strong concordance between transcriptomic patterns of spleen and peripheral blood leukocytes in response to avian pathogenic *Escherichia coli* infection. *Avian Diseases* 56:732-736.
- Sandford, E.E., Orr, M., Shelby, M., Li, X., Zhou, H., Johnson, T.J., Kariyawasam, S., Liu, P., Nolan, L.K., and Lamont, S.J. 2012. Transcriptome response of leukocytes from chickens infected with avian pathogenic *Escherichia coli* identifies pathways associated with resistance. *Results in Immunol.* 2: 44-53.
- Jia, X., Nie, Q., Lamont, S.J., Zhang, X. Variation in sequence and expression of the avian FTO, and association with glucose metabolism, body weight, fatness and body composition in chickens. 2011. *Intl. J. Obesity.* advance online publication, 22 November 2011; doi:10.1038/ijo.2011.221
- Chuammitri, P., Redmond, S. B., Kimura, K., Andreasen, C. B., Lamont, S. J., and Palić, D. 2011. Heterophil functional responses to dietary immunomodulators vary in genetically distinct chicken lines. *Vet. Immunol. Immunopathol.* doi:10.1016/j.vetimm.2011.05.019
- Ciraci, C., and Lamont, S.J., 2011. Avian-specific TLRs and downstream effector responses to CpG-induction in chicken macrophages. *Dev. Comp. Immunol.* 35: 392–398.
- Coble, D. J., Redmond, S.B., Hale, B., and Lamont, S. J. 2011. Distinct lines of chickens express different splenic cytokine profiles in response to *Salmonella enteritidis* challenge. *Poultry Sci.* 90:1659–1663.
- Kumar, S., Ciraci, C., Redmond, S., B., Chuammitri, P., Andreasen, C., B., Palić, D., and Lamont, S.J. 2011. Immune response gene expression in spleens of diverse chicken lines fed dietary immunomodulators. *Poultry Sci.* 90:1009–1013.
- Peiris, L., Ralph, J., Lamont, S.J. and Dekkers, J.C. 2011. Predicting allele frequencies in DNA pools using high density SNP genotyping data. *Animal Genet.* 30:256-264
- Redmond, S.B., Chuammitri, P., Andreasen, C. B., Palic, D., Lamont, S.J. 2011. Genetic control of chicken heterophil function in advanced intercross lines: associations with novel and with known *Salmonella* resistance loci and a likely mechanism for cell death in extracellular trap production. *Immunogenetics* 63: 449-458. DOI 10.1007/s00251-011-0523-y
- Redmond, S.B., Chuammitri, P., Andreasen, C. B., Palic, D., Lamont, S.J. 2011. Proportion of circulating chicken heterophils and CXCLi2 expression in response to *Salmonella enteritidis* are affected by genetic line and immune modulating diet. *Vet. Immunol. Immunopath.* 140: 323-328.
- Sandford, E.E., Orr, M., Balfanz, E., Bowerman, N., Xianyao Li, X., Zhou, H., Johnson, T.J., Kariyawasam, S., Liu, P., Nolan, L.K., and Lamont, S.J. 2011. Spleen transcriptome response to infection with avian pathogenic *Escherichia coli* in broiler chickens. *BMC Genomics* 12:469-481.
- Sunkara, L.T., Achanta, M., Schreiber, N.B., Bommineni, Y.R., Dai, G., Jiang, W., Lamont, S.J., Lillehoj, H.S., Beker, A., Teeter, R.G., and Zhang, G. 2011. Butyrate enhances disease resistance of chickens by inducing antimicrobial host defense peptide gene expression. *PLoS ONE* 6(11): e27225. doi:10.1371/journal.pone.0027225
- Wolc, A., Stricker, C., Arango, J., Settari, P., Fulton, J.E., O' Sullivan, N.P., Habier, D., Fernando, R., Garrick, D.J., Lamont, S.J., and Dekkers, J.C.M. 2011. Breeding value prediction for production traits in layers using pedigree or genomic relationships in a reduced animal model. *Genet. Select. Evol.* 43:5-13.
- Ciraci, C., Tuggle, C.K., Wannemuehler, M.J., Nettleton, D., and Lamont, S.J., 2010. Unique genome-wide transcription profiles of chicken macrophages exposed to *Salmonella*-derived endotoxin. *BMC Genomics* 11:545-555.



- Redmond, S.B., Tell, R.M., Coble, D., Mueller, C., Palic, D., Andreasen, C.B., and Lamont, S.J. 2010. Differential splenic cytokine responses to dietary immune modulation by diverse chicken lines. *Poultry Sci.* 89: 1635-1641.
- van den Berg, B.H.J., McCarthy, F.M., Lamont, S.J., and Burgess, S.C. 2010. Re-annotation is an essential step in systems biology modeling of functional genomics data. *PLoS One* 5:e10642. Published online 2010 May 14. doi: 10.1371/journal.pone.0010642
- Abasht, B., Kaiser, M.G., van der Poel, J., Lamont, S.J. 2009. Genetic lines differ in Toll-like receptor gene expression in spleen of chicks inoculated with *Salmonella enterica* Serovar Enteritidis. *Poultry Sci.* 88: 744-749.
- Abasht, B., Sandford, E., Arango, J., Settar, P., Fulton, J.E., O'Sullivan, N.P., Hassen, A., Habier, D., Fernando, R.L., Dekkers, J.C.M., and Lamont, S.J. 2009. Extent and consistency of linkage disequilibrium and identification of DNA markers for production and egg quality traits in commercial layer chicken populations. *BMC Genomics* 10 (Suppl 2): 52-62. doi:10.1186/1471-2164-10-S2-S2
- Chuammitri, P., Ostojić, J., Andreasen, C.B., Redmond, S.B., Lamont, S. J. and Palić, D. 2009. Chicken heterophil extracellular traps (HETs): novel defense mechanism of chicken heterophils. *Vet. Immunol. Immunopathol.* 129: 126-131.
- Hassen, A., Avendano, S., Hill, W. G., Fernando, R. L., Lamont, S. J., and Dekkers, J. C. M. 2009. The effect of heritability estimates on high-density SNP analyses with related animals. *J. Anim. Sci.* 87:868-875.
- Kim, D.K., Kim, C.H., Lamont, S.J., Keeler, Jr., C.L. and Lillehoj, H.S. 2009. Gene expression profiles of two B-complex disparate, genetically inbred Fayoumi chicken lines that differ in susceptibility to *Eimeria maxima*. *Poultry Sci.* 88:1565-1579.
- Redmond, S.B., Chuammitri, P., Palic, D., Andreasen, C. B., Lamont, S.J. 2009. Chicken heterophils from commercially selected and non-selected genetic lines express cytokines differently after in vitro exposure to *Salmonella enteritidis*. *Vet. Immunol. Immunopathol.* 132: 129-134.
- Abasht, B., Kaiser, M.G., and Lamont, S.J. 2008. Toll-like receptor gene expression in cecum and spleen of advanced intercross line chicks infected with *Salmonella enterica* serovar Enteritidis, *Vet. Immunol. Immunopathol.* 123: 314-323.
- Cheeseman, J.H., Levy, N.A., Kaiser, P., Lillehoj, H.S. and Lamont, S.J. 2008. *Salmonella enterica* serovar Enteritidis induced alteration of inflammatory CXCL chemokines mRNA expression and histological changes in the cecum of infected chicks. *Avian Diseases* 52:229-234.
- Cheeseman, J.H., Lillehoj, H.S. and Lamont, S.J. 2008. Reduced nitric oxide production and iNOS mRNA expression in IFN- $\gamma$ -stimulated chicken macrophages transfected with iNOS siRNAs. *Vet. Immunol. Immunopathol.* 125: 375-380.
- Ghebremichael, S.B., Hasenstein, J.R., and S. J. Lamont, S.J. 2008. Association of interleukin-10 cluster genes and *Salmonella* response in the chicken. *Poultry Sci.* 87: 22-26.
- Kim, D.K., Lillehoj, H.S., Hong, Y.H., Park, D.W., Lamont, S.J., Han, J.Y., and Lillehoj, E.P. 2008. Immune-related gene expression in two B-complex disparate genetically inbred Fayoumi chicken lines following *Eimeria maxima* infection. *Poultry Sci.* 87:433-443
- Abasht, B., and Lamont, S.J. 2007. Genome-wide association analysis reveals cryptic alleles as an important factor in heterosis for fatness in chicken F2 population. *Animal Genetics* 38: 491-498
- Andreescu, C., Avendano, S., Brown, S., Hassen, A., Lamont, S.J., and Dekkers, J.C.M. 2007. Linkage disequilibrium in related breeding lines of chickens. *Genetics* 177: 2161-2169
- Ewald, S.J., Ye, X., Avendano, S., McLeod, S., Lamont, S.J. and Dekkers, J.C.M. 2007. Associations of BF2 Alleles with antibody titers and production traits in commercial pure line broiler chickens. *Animal Genetics* 38: 174-176
- Hasenstein, J.R., and Lamont, S.J. 2007. Chicken *Gallinacin* gene cluster associated with *Salmonella* response in advanced intercross line. *Avian Dis.* 51:561-567.

- Livant, E.J., Avendano S., McLeod S., Ye X., Lamont S.J., Dekkers J.C.M. & Ewald S.J. 2007. *Mx* gene exon 13 polymorphisms in broiler breeder chickens and associations with commercial traits. *Animal Genetics* 38:177-179
- van den Berg, B.H.J., Harris, T., McCarthy, F.M., Lamont, S.J., Burgess, S.C. 2007. Non-electrophoretic differential detergent fractionation proteomics using frozen whole organs. *Rapid Commun. Mass Spectrom.* 21: 3905-3909.
- Ye, X., Brown, S.R., Nones, K., Coutinho, L.L., Dekkers, J.C.M. and Lamont, S.J. 2007. Associations of myostatin gene polymorphisms with performance and mortality traits in broiler chickens. *Genet. Sel. Evol.* 39: 73-89.
- Zhou, H. and Lamont, S.J. 2007. Global gene expression profile after *Salmonella enterica* Serovar *enteritidis* challenge in two F8 advanced intercross chicken lines. *Cytogenet. Genome Res.* 117:131-138.
- Zhou, H., Deeb, N., Evock-Clover, C., Mitchell, A., Ashwell, C. and Lamont, S.J. 2007. Genome-wide linkage analysis to identify chromosomal regions affecting phenotypic traits in the chicken. III. Skeletal integrity. *Poultry Sci.* 86:255-266.
- Zhou, H., Evock-Clover, C., McMurtry, J.P., Ashwell, C. and Lamont, S.J. 2007. Genome-wide linkage analysis to identify chromosomal regions affecting phenotypic traits in the chicken. IV. Metabolic traits. *Poultry Sci.* 86:267-276.
- Zhou, H., Gu, J., Lamont, S. J. and Gu, X. 2007. Evolutionary analysis for functional divergence of Toll-like receptor gene family and altered functional constraints. *J. Molec. Evol.* 65:119-123.
- Abasht, B. Dekkers, J.C.M, and Lamont, S.J. 2006. Review of quantitative trait loci identified in the chicken. *Poultry Sci.* 85:2079-2096.
- Cheeseman, J.H., Kaiser, M.G., Ciraci, C., Kaiser, P. and Lamont, S.J. 2006. Breed effect on early cytokine mRNA expression in spleen and cecum of chickens with and without *Salmonella enteritidis* infection. *Devel. Comp. Immunol.* 31: 52-60.
- Hangalapura, B. N., Kaiser, M. G., van der Poel, J.J., Parmentier, H. K., and Lamont, S. J. 2006. Cold stress equally enhances in vivo pro-inflammatory cytokine gene expression in chicken lines divergently selected for antibody responses. *Develop. Comp. Immunol.* 30:503-511.
- Hasenstein, J.R., Zhang, G., and Lamont, S.J. 2006. Analyses of five gallinacin genes and the *Salmonella enterica* serovar *enteritidis* response in poultry. *Infection & Immunity* 74:3375-3380.
- Kaiser, M.G., J.H. Cheeseman, Kaiser, P., and Lamont, S.J. 2006. Cytokine expression in chicken peripheral blood mononuclear cells after in vitro exposure to *Salmonella enterica* serovar *Enteritidis*. *Poultry Sci* 85:1907-1911.
- Lamont, S.J. 2006. Perspectives in chicken genetics and genomics. *Poultry Sci.* 85:2048-2049.
- McElroy, J.P., Kim, J.J., Harry, D.E., Brown, S.R., Dekkers, J.C., and Lamont, S.J. 2006. Identification of trait loci affecting white meat percentage and other growth and carcass traits in commercial broiler chickens. *Poultry Sci.* 85:593-605.
- McElroy, J.P., Zhang, W., Koehler, K.J., Lamont, S.J., and Dekkers, J.C.M. 2006. Comparison of methods for analysis of selective genotyping survival data. *Genetics Selec. Evol.* 38:637-655.
- Soller, M., Weigend, S., Romanov, M.N., Dekkers, J.C.M., and Lamont, S.J. 2006. Strategies to assess structural variation in the chicken genome and its associations with biodiversity and biological performance. *Poultry Sci.* 85:2061-2078.
- Ye, X., Avendano, S., Dekkers, J.C.M. and Lamont, S.J. 2006. Association of twelve immune-related genes with performance of three broiler lines in two different hygiene environments. *Poultry Sci.* 85:1555-1568.
- Ye, X., McLeod, S., Elfick, D., Dekkers, J.C.M., and Lamont, S.J. 2006. Rapid identification of single nucleotide polymorphisms and estimation of allele frequencies using sequence traces from DNA pools. *Poultry Science* 85: 1165-1168.
- Zhou, J., Deeb, N., Ashwell, C.M., and Lamont, S.J. 2006. Genome-wide linkage analysis to identify chromosomal regions affecting phenotypic traits in the chicken. I. Growth and average daily gain. *Poultry Sci.* 85:1700-1711.

- Zhou, J., Deeb, N., Ashwell, C.M., and Lamont, S.J. 2006. Genome-wide linkage analysis to identify chromosomal regions affecting phenotypic traits in the chicken. II. Body composition. *Poultry Sci.* 85: 1712-1721.
- Li, H., Deeb, N., Ashwell, C. M., and Lamont, S. J. 2005. Chicken quantitative trait loci for growth and body composition associated with very low density apolipoprotein II gene. *Poultry Sci.* 84:697-703
- McElroy, J. P., Dekkers, J. C. M., Fulton, J. E., O'Sullivan, N. P., Soller, M., Lipkin, E., Zhang, W., Koehler, K. J., Lamont, S. J., and Cheng, H. H. 2005. Microsatellite markers associated with resistance to Marek's disease in commercial layer chickens. *Poultry Sci.* 84:1678-1688.
- Zhou, H., Mitchell, A. D., McMurtry, J. P., Ashwell, C. M., and Lamont, S. J. 2005. Insulin-like growth factor 1 gene polymorphism associations with growth, body composition, skeleton integrity, and metabolic traits in chickens. *Poultry Sci.* 84:212-219.
- Cheeseman, J., Kaiser, M.G., and Lamont, S. J. 2004. Genetic line effect on peripheral blood leukocytes cell surface antigens in chickens. *Poultry Sci.* 83:911-916.
- Goodenbour, J.M., Kaiser, M. G., and Lamont, S.J. 2004. Linkage mapping of *Inhibitor of apoptosis protein-1 (IAP1)* to chicken chromosome 1. *Anim. Genet.* 35:142-167.
- Wong, G. K., Liu, B., Wang, J., Zhang, Y., Yang, X., Zhang, Z., Meng, Q., Zhou, J., Li, D., Zhang, J., Ni, P., Li, S., Ran, L., Li, H., Li, R., Zheng, H., Lin, W., Li, G., Wang, X., Zhao, W., Li, J. Ye, C., Dai, M., Ruan, J., Zhou, Y., Li, Y., He, X., Huang, X., Tong, W., Chen, J., Ye, J., Chen, C., Wei, N., Dong, L., Lan, F., Sun, Y., Yang, Z., Yu, Y., Huang, Y., He, D., Xi, Y., Wei, D., Qi, Q., Li, W., Shi, J., Wang, M., Xie, F., Zhang, X., Wang, P., Zhao, Y., Li, N., Yang, N., Dong, W., Hu, S., Zeng C., Zheng, W., Hao, B., Hillier, L. W., Yang, S. P., Warren, W. C., Wilson, R. K., Brandstrom, M., Ellegren, H., Crooijmans, R. P., van der Poel, J. J., Bovenhuis, H., Groenen, M. A., Ovcharenko, I., Gordon, L., Stubbs, L., Lucas, S., Glavina, T., Aerts, A., Kaiser, P., Rothwell, L., Young, J. R., Rogers, S., Walker, B. A., van Hateren, A., Kaufman, J., Bumstead, N., Lamont, S. J., Zhou, H., Hocking, P. M., Morrice, D., de Koning, D. J., Law, A., Bartley, N., Burt, D. W., Hunt, H., Cheng, H. H., Gunnarsson, U., Wahlberg, P., Andersson, L., Kindlund, E., Tammi, M., Andersson, T. B., Webber, C., Ponting, C. P., Overton, I. M., Boardman, P. E., Tang, H., Hubbard, S. J., Wilson, S. A., Yu, J., and Yang, H. 2004. A genetic variation map for chicken with 2.8 million single-nucleotide polymorphisms. *Nature* 432:717-722.
- Malek, M., Hasenstein, J., and Lamont, S. J. 2004. Analysis of chicken TLR4, CD28, MIF, MD-2, and LITAF genes in a *Salmonella enteritidis* resource population. *Poultry Sci.* 83:544-549.
- Wang, X., Carre, W., Zhou, H., Lamont, S. J., and Cogburn, L. A. 2004. Duplicated Spot 14 genes in the chicken: characterization and identification of polymorphisms associated with abdominal fat traits. *Gene* 332:79-88.
- Deeb, N. and Lamont, S. J. 2003. Use of a novel outbred by inbred F1 cross to detect genetic markers for growth. *Anim. Genet.* 34:205-212.
- Kaiser, M. G., Lakshmanan, N., Arthur, J. A., O'Sullivan, P., and Lamont, S. J. 2003. Experimental population design for estimation of dominant molecular marker effect on egg-production traits. *Anim. Genet.* 34:334-338.
- Kramer, J., Malek, M., and Lamont, S. J. 2003. Association of twelve candidate gene polymorphisms and response to challenge with *Salmonella enteritidis* in poultry. *Anim. Genet.* 34 339-348.
- Lamont, S. J. 2003. Unique population designs used to address molecular genetics questions in poultry. *Poultry Sci.* 82:882-884.
- Li, H., Deeb, N., Zhou, H., Mitchell, A.D., Ashwell, C.M., and Lamont, S.J. 2003. Chicken quantitative trait loci for growth and body composition associated with transforming growth factor- $\beta$  genes. *Poultry Sci.* 82:347-356.
- Liu, W. and Lamont, S.J. 2003. Candidate gene approach: potential association of *Caspase-1*, *Inhibitor of Apoptosis Protein-1*, and *Prosaposin* gene polymorphisms with response to *Salmonella enteritidis* challenge or vaccination in young chicks. *Anim. Biotech.* 14:61-76.

- Liu, W., Kaiser, M.G., and Lamont, S.J. 2003. Natural Resistance-Associated Macrophage Protein 1 Gene Polymorphisms and Response to Vaccine against or Challenge with *Salmonella enteritidis* in Young Chicks. *Poultry Sci.* 82:259-266.
- Lonergan, S. M., Deeb, N., Fedler, C. A., and Lamont, S. J. 2003. Breast meat quality and composition in unique chicken populations. *Poultry Sci.* 82:1990-1994.
- Malek, M. and Lamont, S. J. 2003. Association of INOS, TRAIL, TGF $\beta$ 2, TGF $\beta$ 3, and IgL genes with response to *Salmonella enteritidis* in poultry. *Genet. Sel. Evol.* 35 (Suppl. 1):S99-S111.
- Zhou, H. and Lamont, S. J. 2003. Associations of six candidate genes with antibody response kinetics in hens. *Poultry Sci.* 82:1118-1126.
- Zhou, H. and Lamont, S.J. 2003. Association of transforming growth factor  $\beta$  genes with quantitative trait loci for antibody response kinetics in hens. *Anim. Genet.* 34:275-282.
- Zhou, H. and Lamont, S. J. 2003. Chicken MHC class I and II gene effects on antibody response kinetics in adult chickens. *Immunogenet.* 55:133-140.
- Zhou, H., Li, H. and Lamont, S. J. 2003. Genetic markers associated with antibody response kinetics in adult chickens. *Poultry Sci.* 82:699-708.
- Deeb, N. and Lamont, S. J. 2002. Genetic architecture of growth and body composition in unique chicken populations. *J. Heredity* 93(2):107-118.
- Kaiser, M. G. and Lamont, S. J. 2002. Microsatellites linked to *Salmonella enterica* serovar enteritidis burden in spleen and cecal content of young F<sub>1</sub> broiler-cross chicks. *Poultry Sci.* 81:657-663.
- Kaiser, M. G., Deeb, N., and Lamont, S. J. 2002. Microsatellite markers linked to *Salmonella enterica* serovar enteritidis vaccine response in young F<sub>1</sub> broiler-cross chicks. *Poultry Sci.* 81:193-201.
- Kaiser, M. G., Lakshmanan, N., Wing, T., and Lamont, S. J. 2002. *Salmonella enterica* serovar enteritidis burden in broiler breeder chicks is genetically associated with vaccine antibody response. *Avian Dis.* 46:25-31.
- Lamont, S. J., Kaiser, M. G., and Liu, W. 2002. Candidate genes for resistance to *Salmonella enteritidis* colonization in chickens as detected in a novel genetic cross. *Vet. Immunol. & Immunopathol.* 87:423-428.
- Liu, W., Miller, M. M., Lamont, S.J. 2002. Association of MHC class I and class II gene polymorphisms with vaccine or challenge response to *Salmonella enteritidis* in young chicks. *Immunogenetics* 54:582-590.
- Zhou, H., Lillehoj, H. S., and Lamont, S. J. 2002. Associations of interferon- $\gamma$  genotype and protein level with antibody response kinetics in chickens. *Avian Diseases* 46:869-876.
- Kaiser, M. G. and Lamont, S. J. 2001. Genetic line differences in survival and pathogen load in young layer chicks after *Salmonella enterica* serovar enteritidis exposure. *Poultry Sci.* 80:1105-1108.
- Pisenti, J. M., Delany, M. E., Taylor, R. L., Jr., Abbott, U. K., Abplanalp, H., Arthur, J. A., Bakst, M. R., Baxter-Jones, C., Bitgood, J. J., Bradley, F., Cheng, K. M., Dietert, R. R., Dodgson, J. B., Donoghue, A., Emsley, A. E., Etches, R., Frahm, R. R., Gerrits, R. J., Goetinck, P. F., Grunder, A. A., Harry, D. E., Lamont, S. J., Martin, G. R., McGuire, P. E., Moberg, G. P., Pierro, L. J., Qualset, C. O., Qureshi, M., Schultz, F., and Wilson, B. W. 2001. Avian genetic resources at risk: an assessment and proposal for conservation of genetic stocks in the USA and Canada. *Poultry & Avian Biology Reviews* 12:1-102.
- Weigend, S., Matthes, S., Solkner, J., and Lamont, S. J. 2001. Resistance to Marek's disease virus in white Leghorn chickens: effects of avian leukosis virus infection genotype, reciprocal mating, and major histocompatibility complex. *Poultry Sci.* 80:1064-1072.
- Zhou, H., Buitenhuis, A. J., Weigend, S., and Lamont, S. J. 2001. Candidate gene promoter polymorphisms and antibody response kinetics in chickens: interferon- $\gamma$ , interleukin-2, and immunoglobulin light chain. *Poultry Sci.* 80:1679-1689.

- Zhou, H., Liu, W., and Lamont, S. J. 2001. Genetic variation among chicken lines and mammalian species in specific genes. *Poultry Sci.* 80:284-288.
- Chen, Y., Carpenter, S. L., and Lamont, S. J. 2000. A functional role of the Y box in regulating an MHC class II $\beta$  gene promoter in chicken lymphocytes. *Immunogen.* 51:882-886.
- Chen, Y., Carpenter, S. L., and Lamont, S. J. 2000. Detection of protein binding to a glucocorticoid response element-like sequence in a chicken major histocompatibility complex class II promoter. *Vet. Immun. Immunopath.* 75:1-7.
- Groenen, M. A. M., Cheng, H. H., Bumstead, N., Benkel, B. F., Briles, W. E., Burke, T., Burt, D. W., Crittenden, L. B., Dodgson, J., Hillel, J., Lamont, S., Ponce de Leon, A., Soller, M., Takahashi, H., and Vignal, A. 2000. A consensus linkage map of the chicken genome. *Genome Res.* 10:137-147.
- Kaiser, M. G., Yonash, N., Cahaner, A. and Lamont, S. J. 2000. Microsatellite polymorphism between and within broiler populations. *Poultry Sci.* 79:626-628.
- Heltemes, L.M., Tuggle, C.K., and Lamont, S.J. 1999. Tissue expression patterns of chicken octamer-binding proteins. *Poultry Sci.* 78:574-578.
- Karaca, M., Johnson, E., and Lamont, S. J. 1999. Genetic line and MHC effects on primary and secondary antibody responses to T-dependent and T-independent antigens. *Poultry Sci.* 78:1518-1525.
- Weigend, S. and Lamont, S. J. 1999. Analysis of MHC class II and class IV RFLP in chicken lines divergently selected for multitrait immune response. *Poultry Science* 78:973-982.
- Yonash, N., Kaiser, M. G., Heller, E. D., Cahaner, A., and Lamont, S. J. 1999. Major histocompatibility complex (MHC) related cDNA probes associated with antibody response in meat-type chickens. *Anim. Genet.* 30:92-101.
- Zhou, H. and Lamont, S. J., 1999. Genetic characterization of biodiversity in highly inbred chicken lines by microsatellite markers. *Anim. Genet.* 30:256-264.
- Kaiser, M. G., Wing, T., and Lamont, S. J. 1998. Effects of genetics, vaccine dosage, and postvaccination sampling interval on early antibody response to *Salmonella enteritidis* vaccine in broiler breeder chicks. *Poultry Sci.* 77:271-275.
- Lakshmanan, N. and Lamont, S. J. 1998. Research Note: *Rfp-Y* region polymorphism and Marek's disease resistance in multitrait immunocompetence-selected chicken lines. *Poultry Sci.* 77:538-541.
- Lamont, S. J. 1998. Impact of genetics on disease resistance. *Poultry Sci.* 77:1111-1118.
- Pinard-van der Laan, M.-H., Siegel, P. B., and Lamont, S. J. 1998. Lessons from selection experiments on immune response in the chicken. *Poultry & Avian Biology Reviews* 9(4):125-141.
- Chen, Y., Lillehoj, H. S., Hsu, C-H., Carpenter, S. L., and Lamont, S. J. 1997. Functional characterization of a chicken major histocompatibility complex class II  $\beta$  gene promoter. *Immunogenet.* 45:242-248.
- Heltemes, L. M., Tuggle, C. K., and Lamont, S. J. 1997. Octamer function in the chicken lambda immunoglobulin light chain promoter. *Immunogenet.* 47:73-76.
- Heltemes, L. M., Tuggle, C. K., and Lamont, S. J. 1997. Isolation and mapping of two chicken POU family genes and the identification of a syntenic group with human and mouse. *Anim. Genet.* 28:346-350.
- Heltemes, L. M., Tuggle, C. K., and Lamont, S. J. 1997. TaqI polymorphism in Oct-1 in chickens. *Anim. Genet.* 28:58-71.
- Lakshmanan, N., Gavora, J. S., and Lamont, S. J. 1997. Major histocompatibility complex class II DNA polymorphisms in chicken strains selected for Marek's disease resistance and egg production or for egg production alone. *Poultry Sci.* 76:1517-1523.

- Weigend, S., Mielenz, N., and Lamont, S. J. 1997. Application of a nonlinear regression function to evaluate the kinetics of antibody response to vaccines in chicken lines divergently selected for multitrait immune response. *Poultry Sci.* 76:1248-1255.
- Cahaner, A., Smith, E. J., Swenson, S., and Lamont, S. J. 1996. Associations of individual genomic heterozygosity, estimated by molecular fingerprinting, and of dam major histocompatibility complex with growth and egg production traits in layer chickens. *Poultry Sci.* 75:1463-1467.
- Lamont, S. J., Lakshmanan, N., Plotsky, Y., Kaiser, M. G., Kuhn, M., Arthur, J. A., Beck, N. J., and O'Sullivan, N. P. 1996. Genetic markers linked to quantitative traits in poultry. *Anim. Genet.* 27:1-8.
- Shaw, E. M., Otis, J. S., Lamont, S. J., Guise, K. S., and Shoffner, R. N. 1996. Gene mapping by chromosome microdissection and microisolation in the chicken. *Poultry Sci.* 75:6-12.
- Spike, C. A., Bumstead, N., Crittenden, L. B., and Lamont, S. J. 1996. RFLP mapping of expressed sequence tags in the chicken. *J. Heredity* 87:6-9.
- Nelson, N., Lakshmanan, N., and Lamont, S. J. 1995. Sheep red blood cell and *Brucella abortus* antibody responses in chickens selected for multitrait immunocompetence. *Poultry Sci.* 74:1603-1609.
- Plotsky, Y., Kaiser, M. G., and Lamont, S. J. 1995. Genetic characterization of highly inbred chicken lines by two DNA methods: DNA fingerprinting and polymerase chain reaction using arbitrary primers. *Anim. Genet.* 26:163-170.
- Spike, C. A., and Lamont, S. J. 1995. Genetic analysis of three loci homologous to human G9a: evidence for linkage of a class III gene with the chicken MHC. *Anim. Genet.* 26:185-187.
- Zhu, J., Nestor, K. E., and Lamont, S. J. 1995. Survey of major histocompatibility complex class II haplotypes in four turkey lines using restriction fragment length polymorphism analysis with nonradioactive DNA detection. *Poultry Sci.* 74:1067-1073.
- Kean, R. and Lamont, S. J. 1994. Effect of injection site on cutaneous basophil hypersensitivity response to phytohemagglutinin. *Poultry Sci.* 73:1763-1765.
- Dietert, R. R. and Lamont, S. J. 1994. Avian immunology: from fundamental immune mechanisms to the integrative management of poultry. *Poultry Sci.* 73:975-978.
- Lamont, S. J. 1994. Poultry immunogenetics: which way do we go? *Poultry Sci.* 73:1044-1048.
- Kean, R. P., Briles, W. E., Cahaner, A., Freeman, A. E. and Lamont, S. J. 1994. Differences in major histocompatibility complex frequencies after multitrait, divergent selection for immunocompetence. *Poultry Sci.* 73:7-17.
- Kean, R. P., Cahaner, A., Freeman, A. E. and Lamont, S. J. 1994. Direct and correlated responses to multitrait, divergent selection for immunocompetence. *Poultry Sci.* 73:18-32.
- Plotsky, Y., Cahaner, A., Haberfield, A., Lavi, U., Lamont, S. J. and Hillel, J. 1993. DNA fingerprint bands applied to linkage analysis with quantitative trait loci in chickens. *Anim. Genet.* 24:105-110.
- Steadham, E. M. and Lamont, S. J. 1993. Gene complementation in biological crosses for humoral immune response to glutamic acid-alanine-tyrosine. *Poultry Sci.* 72:76-81.
- Steadham, E. M. and Lamont, S. J. 1993. T lymphocyte reactivity to glutamic acid-alanine-tyrosine *in vitro* does not reflect antibody response *in vivo*. *Poultry Sci.* 72:67-75.
- Sung, A. M., Nordskog, A. W., Lamont, S. J., and Warner, C. M. 1993. Isolation and characterization of cDNA clones for chicken major histocompatibility complex class II molecules. *Anim. Genet.* 24:227-233.
- Chen, Y. and Lamont, S. J. 1992. Major histocompatibility complex class I restriction fragment length polymorphism analysis in highly inbred chicken lines and lines selected for major histocompatibility complex and immunoglobulin production. *Poultry Sci.* 71:999-1006.

Emara, M. G., Nestor, K. E., Foster, D. N., and Lamont, S. J. 1992. The turkey histocompatibility complex: identification of class II genotypes by restriction fragment length polymorphism analysis of deoxyribonucleic acid. *Poultry Sci.* 71:2083-2089.

Lamont, S. J., Chen, Y., Aarts, H. J. M., Van Der Hulst-Van Arkel, M. C., Beuving, G., and Leenstra, F. R. 1992. Endogenous viral genes in thirteen highly inbred chicken lines and in lines selected for immune response traits. *Poultry Sci.* 71:530-538.

Cheng, S., Rothschild, M. F., and Lamont, S. J. 1991. Estimates of quantitative genetic parameters of immunological traits in the chicken. *Poultry Sci.* 70:2023-2027.

Lamont, S. J. 1991. Immunogenetics and the major histocompatibility complex. *Vet. Immunol. Immunopathol.* 30:121-127.

Munns, P. L. and Lamont, S. J. 1991. Research Note: Effects of age and immunization interval on the anamnestic response to T cell-dependent and T cell-independent antigens in chickens. *Poultry Sci.* 70:2371-2374.

Lamont, S. J., Gerndt, B. M., Warner, C. M., and Bacon, L. D. 1990. Analysis of restriction fragment length polymorphisms of the major histocompatibility complex of 15I<sub>5</sub>-B congenic chicken lines. *Poultry Sci.* 69:1195-1203.

Fulton, J. E., Briles, R. W., and Lamont, S. J. 1990. Monoclonal antibody differentiates chicken A system alloantigens. *Anim. Genet.* 21:39-45.

Fulton, J. E., Briles, W. E., and Lamont, S. J. 1990. Chicken A blood group system antigens: molecular characteristics and lack of expression on lymphocytes. *Anim. Genet.* 21:401-410.

Fulton, J. E., Hall, V. J., and Lamont, S. J. 1990. Ontogeny and expression of chicken A blood group antigens. *Anim. Genet.* 21:47-57.

Knudtson, K. L., Kaiser, M. G., and Lamont, S. J. 1990. Genetic control of interleukin 2-like activity is distinct from that of mitogen response in chickens. *Poultry Sci.* 69:65-71.

Ellis, M. G., Arp, L. H., and Lamont, S. J. 1989. Interaction of turkey complement with *Escherichia coli* isolated from turkeys. *Am. J. Vet. Res.* 50:1285-1289.

Ellis, M. G., Lamont, S. J., and Arp, L. H. 1989. Characterization of complement activity in turkeys: Evidence for classical and alternative complement pathways. *Poultry Sci.* 69:646-650.

Kim, C. D., Lamont, S. J., and Rothschild, M. F. 1989. Associations of major histocompatibility complex haplotypes with body weight and egg production traits in S1 White Leghorn chickens. *Poultry Sci.* 68:464-469.

Knudtson, K. L. and Lamont, S. J. 1989. Associations of genetics and sampling time with levels of interleukin-2 activity. *Vet. Immunol. Immunopath.* 22:333-343.

Lamont, S. J. 1989. The chicken major histocompatibility complex in disease resistance and poultry breeding. *J. Dairy Sci.* 72:1328-1333.

Lillehoj, H. S., Ruff, M. D., Bacon, L. D., Lamont, S. J., and Jeffers, T. K. 1989. Genetic control of immunity to *Eimeria tenella*: interaction of MHC genes and genes within the genetic background influence levels of disease susceptibility. *Vet. Immunol. Immunopath.* 20:135-148.

Pitcovski, J., Lamont, S. J., Nordskog, A. W., and Warner, C. M. 1989. Analysis of B-G and immune response genes in the Iowa State University S1 chicken line by hybridization of sperm deoxyribonucleic acid with a major histocompatibility complex class II probe. *Poultry Sci.* 68:94-99.

Warner, C. M., Gerndt, B., Xu, Y., Bourlet, Y., Auffray, C., Lamont, S., and Nordskog, A. W. 1989. Restriction fragment length polymorphism (RFLP) analysis of MHC class II genes from inbred chicken lines. *Anim. Genet.* 20:225-231.

- Xu, Y., Pitcovski, J., Peterson, L., Auffray, C., Bourlet, Y., Gerndt, B., Nordskog, A. W., Lamont, S. J., and Warner, C. M. 1989. Isolation and characterization of three class II major histocompatibility complex genomic clones from the chicken. *J. Immunol.* 142:2122-2132.
- Cheng, S. and Lamont, S. J. 1988. Genetic analysis of immunocompetence measures in a White Leghorn chicken line. *Poultry Sci.* 67:989-995.
- Ellis, M. G., Arp, L. H., and Lamont, S. J. 1988. Serum resistance and virulence in *Escherichia coli* isolated from turkeys. *Am. J. Vet. Res.* 49:2034-2037.
- Kim, C. D., Lamont, S. J., and Rothschild, M. F. 1987. Genetic associations of body weight and immune response with the major histocompatibility complex in White Leghorn chicks. *Poultry Sci.* 66:1258-1263.
- Lamont, S. J., Bolin, C., and Cheville, N. 1987. Genetic resistance to fowl cholera is linked to the major histocompatibility complex. *Immunogenet.* 25:284-289.
- Lamont, S. J., Hou, Y.-H., Young, B. M., and Nordskog, A. W. 1987. Differences in major histocompatibility complex gene frequencies associated with feed efficiency and laying performance. *Poultry Sci.* 66:1064-1066.
- Lamont, S. J., Warner, C. M., and Nordskog, A. W. 1987. Molecular analysis of the chicken major histocompatibility complex genes and gene products. *Poultry Sci.* 66:819-824.
- Nordskog, A. W., Pevzner, I. Y., and Lamont, S. J. 1987. Subregions and functions of the chicken major histocompatibility complex. *Poultry Sci.* 66:790-794.
- Pardue, S. L., Smyth, J. R., Jr., Boyle, M. L. III, Lamont, S. J., Fite, K. V., and Bengston, L. 1987. Enhanced integumental and ocular amelanosis following the termination of cyclosporin administration. *J. Invest. Derm.* 88:758-761.
- Steadham, E. M., Lamont, S. J., Kujdych, I., and Nordskog, A. W. 1987. Association of Marek's Disease with Ea-B and immune response genes in subline and F2 populations of the Iowa State S1 Leghorn line. *Poultry Sci.* 66:571-575.
- Wathen, L. K., LeBlanc, D., Warner, C. M., Lamont, S. J., and Nordskog, A. W. 1987. A chicken sex-limited protein that cross-reacts with the fourth component of complement. *Poultry Sci.* 66:162-165.
- Boissy, R. E., Lamont, S. J., and Smyth, J. R., Jr. 1984. Persistence of abnormal melanocytes in immunosuppressed chickens of the autoimmune "DAM" line. *Cell Tissue Res.* 235:663-668.
- Lamont, S. J. and Smyth, J. R., Jr. 1984. Effect of selection for delayed amelanosis on immune response in chickens. I. Antibody production. *Poultry Sci.* 63:436-439.
- Lamont, S. J. and Smyth, J. R., Jr. 1984. Effect of selection for delayed amelanosis on immune response in chickens. II. Cell-mediated immunity. *Poultry Sci.* 63:440-442.
- Lamont, S. J., Boissy, R. E., and Smyth, J. R., Jr. 1982. Humoral immune response and expression of spontaneous postnatal amelanosis in DAM line chickens. *Immunolog. Comm.* 11:121-127.
- Lamont, S. J. and Smyth, J. R., Jr. 1981. Effect of bursectomy on development of a spontaneous postnatal amelanosis. *Clin. Immunol. Immunopathol.* 21:407-411.
- Lamont, S. J. and Van Alten, P. J. 1981. Characteristics of nylon fiber adherence-separated chicken splenocytes. *J. Immunol. Methods* 40:181-191.

#### **PRESENTATIONS PUBLISHED IN SYMPOSIUM PROCEEDINGS:**

- Lamont, S. J. 2010. Genetics of Disease Resistance. In: Estany J, Nogaredo C, and Rothschild M. (eds): Adapting Animal Production to Changes for a Growing Human Population. International Conference, Lleida, Spain, May 19-21, 2010, pp 83-92



- Lamont, S.J. 2008. Integrated genomics to enhance host resistance to bacterial colonization in poultry. Proc World's Poultry Congress, June 29 – July 4, 2008, Brisbane, Australia, published on CD.
- Cheng, H., Niikura, M., Kim, T., Mao, W., MacLea K.S., Hunt, H., Dodgson, J., Burnside, J., Morgan, R., Ouyang, M., S. Lamont, S., Dekkers, J., Fulton, J., Soller, M., and Muir, W. 2008. Using integrative genomics to elucidate genetic resistance to Marek's disease in chicken. In : Pinard M-H, Gay C, Pastoret P-P, Dodet B (eds): Animal Genomics for Animal Health. Dev Biol (Basel). Basel, Karger, 2008, vol 132, p 365-372.
- Hasenstein, J.R., Hassen, A.T., Dekkers, J.C.M., and Lamont, S.J. 2008. High resolution, advanced intercross mapping of host resistance to Salmonella colonization. In : Pinard M-H, Gay C, Pastoret P-P, Dodet B (eds): Animal Genomics for Animal Health. Dev Biol (Basel). Basel, Karger, 2008, vol 132, p 213-218.
- Kim, D.K., Hong, Y.H., D.W Park, D.W., Lamont, S.J., and Lillehoj, H.S. 2008. Differential immune-related gene expression in two genetically disparate chicken lines during infection with *Eimeria maxima*. . In : Pinard M-H, Gay C, Pastoret P-P, Dodet B (eds): Animal Genomics for Animal Health. Dev Biol (Basel). Basel, Karger, 2008, vol 132, p 131-140.
- Koren, E., H. Zhou, A. Cahaner, E.D. Heller, J. Pitcovski, S.J. Lamont. 2008. Unique co-expression of immune cell-related genes in IBDV resistant chickens indicates the activation of specific cellular host-response mechanisms. In : Pinard M-H, Gay C, Pastoret P-P, Dodet B (eds): Animal Genomics for Animal Health. Dev Biol (Basel). Basel, Karger, 2008, vol 132, p 153-159.
- Lamont, S.J. 2007. A Bird's-Eye View of the QTL Landscape. Proc. National Breeders Roundtable, May 2007, St. Louis, MO.
- Lamont, S.J. 2006. Integrated, Whole-Genome Approaches to Enhance Disease Resistance in Poultry, In: Proc. World Congr. Genet. Appl. Livestock Prod. Belo Horizonte, Brazil, August 13-18, 2006, published on CD.
- Hasenstein, J. R. and S.J. Lamont. 2006. Four Gallinacin Genes and Salmonella Response in Chickens. In: Proc. 8<sup>th</sup> World Congr. Genet. Appl. Livestock Prod. Belo Horizonte, Brazil, August 13-18, 2006, published on CD.
- Lamont, S.J. 2005. Genetic Resistance to Poultry Diseases. 7 Pp. In: Proc. AveSui2005. Florianopolis, Brazil, May 11-13, 2005. published on CD.
- Lamont, S. J. 2004. Identification of genes affecting immunity and disease resistance. In: Proc. XXII World's Poultry Congress, Istanbul, Turkey, June 8-13, 4 Pp. published on CD.
- Zhou, H., Mitchell, A. D., McMurty, J. P., Ashwell, C. M., and Lamont, S. J. 2004. Associations of single nucleotide polymorphism in insulin-like growth factor 1 gene with growth, body composition, skeletal integrity and metabolic traits in chickens. In: Proc. XXII World's Poultry Congress, Istanbul, Turkey, June 8-13, 4 Pp. published on CD.
- Lamont, S. J. 2002. Candidate genes for immune response and disease resistance in chickens. Proceedings of the National Breeder's Roundtable Meeting. St. Louis, MO. Poultry Breeders of America, Decatur, GA, Pp 26-32.
- Lamont S. J. 2001. Immunity enhancement by the candidate gene approach. In: Proc Worlds Veterinary Poultry Assoc. Symposium, Cairo, Egypt, Sept 16 – 21.
- Lamont, S. J. and Deeb, N. 2001. Genetics of body composition in a novel broiler cross. In: Proceedings of the XV European Symposium on the Quality of Poultry Meat (eds., R.W. A. Mulder and S.F. Bilgili), WPSA Turkish Branch, Kusadasi Turkey, pages 23-28.
- Kaiser, M. G., Deeb, N., and Lamont, S. J. 2001. Microsatellite markers linked to *Salmonella enterica* serovar Enteritidis vaccine response in F<sub>1</sub> broiler-cross chicks. In: Proceedings of the 6<sup>th</sup> Avian Immunology Research Group Meeting. American Association of Avian Pathologists, October 8-10, Ithaca, NY, Pp 236-239.
- Lamont, S. 2001. Discovering the molecular genetics of health and biological homeostasis in poultry. In: Proc. 2001 International Workshop on Animal Genome Analysis, Society for Techno-Innovation of Agriculture, Forestry and Fisheries, Tsukuba, Japan, Pp 1-5.

- Lamont, S. J. 2001. Utilizing unique genetic populations to identify molecular markers associated with economic traits in poultry. In: Proc. 7<sup>th</sup> International Symposium on Animal Breeding and Genetics. Japanese Society of Animal Breeding and Genetics, Tokyo, Japan, Pp 20-28.
- Cahaner, A., Yonash, N., Yunis, R., Hillel, D., Kaiser, M. G., and Lamont, S. J. 1997. QTL identification in a cross between lines selected divergently for high and low immune response to *E. coli*. In: Proc. Eur. Poultry Breeders' Roundtable, September 3-5, Prague, Czech Republic, Pp 92-104.
- Lakshmanan, N., Kaiser, M. G., and Lamont, S. J. 1997. Marek's disease (MD) resistance in MHC-congenic lines from Leghorn and Fayoumi breeds. Pp. 57-62. In: *Current Research on Marek's Disease*. R. F. Silva, H. H. Cheng, P. M. Coussens, L. F. Lee, and L. F. Velicer, eds. Amer. Assoc. Avian Pathol., Kennet Square, PA.
- Lamont, S. J., Lakshmanan, N., and Kaiser, M. G. 1997. Effect of selection for multitrail immune response on innate and vaccinal resistance to Marek's disease. Pp. 1-7. In: *Current Research on Marek's Disease*. R. F. Silva, H. H. Cheng, P. M. Coussens, L. F. Lee, and L. F. Velicer, eds. Amer. Assoc. Avian Pathol., Kennet Square, PA..
- Lamont, S. J. 1996. Pp. 75-80. Chicken genome mapping strategies: expressed sequence tags, heterologous genes, and genetic regulatory elements. In: *Beltsville Symposium XX: Biotechnology's Role in the Genetic Improvement of Farm Animals*. R. Miller, V. G. Pursel, and H. D. Norman (eds.). Amer. Soc. Anim. Sci., Savoy, IL USA.
- Lamont, S. J. 1994. Application of biotechnology in the poultry breeding industry. In: Proc. 26th Beef Improvement Fed. Des Moines, IA, 1-4 June 1994, pp. 13-16.
- Lakshmanan, N., Lamont, S. J., Kaiser, M. G., Arthur, J. A. and O'Sullivan, N. P. 1994. Genetic markers linked with quantitative traits in chickens. In: Proc. 5th World Congr. Appl. Livestock Prod. Vol. 25:205-208. University of Guelph, Guelph, Ontario.
- Lamont, S. J., Plotsky, Y., Kaiser, M G., Arthur, J. A., and Beck, N. J. 1992. Identification of quantitative trait loci markers in commercial egg-laying chicken lines by using DNA fingerprinting. In: Proc. XIX World's Poultry Congress, Amsterdam, the Netherlands, 20-24 September 1992, vol. 1. pp. 518-522.
- Lamont, S. J. 1991. Selection for immune response in chickens. In: Proc. 40th National Breeders Roundtable. Poultry Breeders of America, Decatur, GA.
- Cheng, S. and Lamont, S. J. 1990. Selection for immunocompetence in chickens. In: Proc. 4th World Congr. Appl. Livestock Prod., Vol. XVI:58-64.
- Lamont, S. J. 1988. Immunogenetics, the major histocompatibility complex, and disease resistance in poultry. Pp 185-192. In: Proc. 38th Western Poultry Disease Conference. Davis, CA, February 29 - March 3, 1988.
- Lamont, S. J. and Warner, C. M. 1987. Analysis of the chicken major histocompatibility complex. In: Proc. 29th British Poultry Breeders Roundtable Conference. Edinburgh Scotland, September 16-18.
- Lamont, S. J. and Warner, C. M. 1987. Classical and new technologies for analysis of the chicken major histocompatibility complex genes. Pp. 119-146. In: R. Reddy (ed.): Proc. 36th National Breeders Roundtable. Poultry Breeders of America, Decatur, GA, 1987.
- Lamont, S. J. 1986. Genetic associations of reticuloendothelial activity in chickens. In: G. E. Dickerson and R. K. Johnson (eds.): Proc. 3rd World Congr. Genet. Appl. Livestock Prod. XI. Genetics of Reproduction, Lactation, Growth, Adaptation, Disease, and Parasite Resistance. pp. 643-647. Agricultural Communications, University of Nebraska, Lincoln, NE.
- Lamont, S. J. 1986. Regulation by genetic engineering of proteins affecting animal health. Pp 114-115. In: R. H. Dutt (ed.): *Proc. Symposium on Food Animal Research*, Lexington, KY, November 2-4.
- Smyth, J. R., Jr., Boyle, M. L., III, Lamont, S. J., and Boissy, R. E. 1985. Spontaneous remelanization of feathers in adult amelanotic DAM line chickens. In: Bagnara, Klaus, Paul, and Schartle (eds): *Biological, Molecular, and Clinical Aspects of Pigmentation*. Pp. 741-746. Univ. Tokyo Press, Tokyo, Japan.

#### CONFERENCE PROCEEDINGS (EDITOR):

Lamont, S.J., Rothschild, M.F., and Harris, D.L. 2005. (eds.) Proc. Third International Symposium on Genetics of Animal Health. Iowa State University, Ames, IA, July 13-15.

Dekkers, J.C.M., Lamont, S.J., and Rothschild, M.F. (eds.) 1999. Proc. International Scientific Conference "From Jay Lush to Genomics" Ames, IA, May 16-18.

Warner, C. M., Rothschild, M. F., and Lamont, S. J. (eds). 1988. *The Molecular Biology of the Major Histocompatibility Complex of Domestic Animal Species*. Iowa State University Press, Ames, IA.

#### BOOKS AND CHAPTERS IN BOOKS:

Lamont, S.J., Dekkers, J.C.M., and Zhou, H. 2014. Immunogenetics and mapping immunological functions. Pp. 205-221. In: *Avian Immunology*. F. Davison, B. Kaspars, P. Kaiser, K.A. Schat, Eds., Elsevier, London, San Diego

Cheng, H.H. and Lamont, S.J. 2013 Genetics of disease resistance. Pp. 70-86. In: *Diseases of Poultry*. 13<sup>th</sup> ed. D. E. Swayne, J.R. Glisson, L.R. McDougald, V. Nair, L. Nolan, and D.L. Suarez, Eds. Wiley-Blackwell, Ames

Lamont, S.J., 2010. *Salmonella* in chickens. Pp. 213-231. In: *Breeding for Disease Resistance in Farm Animals*. S.C. Bishop, R.F.E. Axford, F.W. Nicholas, and J.B. Owen, Eds. CAB International

Lamont, S.J., Dekkers, J.C.M., and Burnside, J. 2008. Immunogenetics and mapping immunological functions. Pp. 223-240. In: *Avian Immunology*. F. Davison, B. Kaspars, K.A. Schat, Eds., Elsevier, London, San Diego

Cheng, H.H. and Lamont, S.J. 2008. Genetics of disease resistance. Pp. 59-72. In: *Diseases of Poultry*. 12<sup>th</sup> ed. Y.M. Saif, A. Fadly, J. Glisson, I. McDonald, L. Nolan, and D. Swayne, Eds., Blackwell Publ.

Lamont, S.J. 2008. Variation in chicken gene structure and expression associated with food-safety pathogen resistance: integrated approaches to *Salmonella* resistance. Pp. 57-66. In: *Genomics of Disease*. J. P. Gustafson, G. Stacey, and J. Taylor, Eds., Springer, New York.

Wick, G., Andersson, L., Hala, K., Gershwin, M. E., Selmi, C.F., Erf, G. F., Lamont, S.J., and Sgonc, R. 2006. Avian models with spontaneous autoimmune diseases. Pp. 71-117. In: *Advances in Immunology*. F.W. Alt, Ed. Elsevier/Academic Press, San Diego, CA

Lamont, S. J., Pinard-van der Laan, M.-H., Cahaner, A., van der Poel, J. J., and Parmentier, H. K. 2003. Selection for disease resistance: direct selection on the immune response. Pp. 399-418. In: *Poultry Genetics, Breeding and Biotechnology*. Muir, W. M. and Aggrey, S. E., eds., CAB International.

Rothschild, M. F., Skow, L., and Lamont, S. J. 2000. The major histocompatibility complex and its role in disease resistance and immune responsiveness. Pp. 73-105. In: *Breeding for Disease Resistance in Farm Animals*. R. E. Axford, ed., CABI Press, Oxon, UK.

Pisenti, J. M., Delany, M. E., Taylor, Jr., R. L., Abbott, U. K., Abplanalp, H., Arthur J. A., Bakst, M. R., Baxter-Jones, C., Bitgood, J. J., Bradley, F. A., Cheng, K. M., Dietert, R. R., Dodgson, J. B., Donoghue, A. M., Emsley, A. B., Etches, R. J., Frahm, R. R., Gerrits, R. J., Goetinck, P. F., Grunder, A. A., Harry, D. E., Lamont, S. J., Martin, G. R., McGuire, P. E., Moberg, G. P., Pierro, L. J., Qualset, C. O., Qureshi, M. A., Shultz, F. T., and Wilson, B. W. 1999. *Avian Genetic Resources at Risk: An Assessment and Proposal for Conservation of Genetic Stocks in the USA and Canada*. Report No. 20, University of California Division of Agriculture and Natural Resources, Genetic Resources Conservation Program, Davis, CA.

Lamont, S. J. 1998. The chicken major histocompatibility complex (MHC) and disease. In: *Genetic Resistance to Animal Diseases*. OIE Scientific and Technical Review, Vol. 17(1), 128-142.

Schook, L.B. and Lamont, S. J. 1996. *The Major Histocompatibility Complex in Domestic Animal Species*. CRC Press, Boca Raton, FL.

Kaufman, J. F. and Lamont, S. J. 1996. Pp. 35-64. The chicken major histocompatibility complex. In: *The Major Histocompatibility Complex in Domestic Animal Species*. L. B. Schook and S. J. Lamont, eds., CRC Press, Boca Raton, FL.

Chen, Y., Carpenter, S. and Lamont, S. J. 1995. Pp. 129-133. Transfection of a putative chicken MHC class II gene promotor region into chicken macrophages. In: *Advances in Avian Immunological Research*. T. F. Davison, N. Bumstead, and P. Kaiser, eds., Carfax Publ., Abingdon, UK.

Lamont, S. J., 1993. The major histocompatibility complex in chickens. Pp 185-203. In: *Manipulation of Avian Genome*. R. Etches and A. Gibbins, eds., CRC Press, Inc., Boca Raton.

Lamont, S. J. and Dietert, R. R. 1990. Immunogenetics. Chapter 22 in: R. Crawford, ed. *Poultry Breeding and Genetics*, Elsevier Publ., Amsterdam, The Netherlands

Fulton, J. E. and Lamont, S. J. 1989. Monoclonal antibody specific for chicken blood group A antigens. In: B. S. Bhogal and Guus Koch(eds): *Recent Advances in Avian Immunology Research*. Prog. Clin. Biol. Res. 307:213-219. Alan R. Liss, Inc., New York, NY.

Warner, C. M., Rothschild, M. F., and Lamont, S. J. (eds). 1988. *The Molecular Biology of the Major Histocompatibility Complex of Domestic Animal Species*. Iowa State University Press, Ames, Iowa.

#### **PUBLISHED ABSTRACTS:**

**Hsieh, .....Lamont, 2014. Plant and Animal Genome Meeting, 2014. San Diego CA.**

A.H Hubbard<sup>3</sup>, L. Sun<sup>3</sup>, C.M. Ashwell<sup>2</sup>, M.F Rothschild<sup>1</sup>, M. E Persia<sup>1</sup>, S.J. Lamont<sup>1</sup> and C.J. Schmidt<sup>3</sup>. 2014. Transcriptome Characterization of Heat Shock Response in White Leghorn Chicken Liver Hepatocellular Carcinoma (LMH) Cells. Plant and Animal Genome Meeting, 2014. San Diego CA.

L. Kaminen<sup>3</sup>, C.M. Ashwell<sup>2</sup>, M.F Rothschild<sup>1</sup>, M. E Persia<sup>1</sup>, S.J. Lamont<sup>1</sup> and C.J. Schmidt<sup>3</sup>. 2014. Impact of Heat Stress on the Chicken Hypothalamic Transcriptome. Plant and Animal Genome Meeting, 2014. San Diego CA.

A. P. Garcia<sup>3</sup>, M. Reis<sup>3</sup>, C.M. Ashwell<sup>2</sup>, M.F Rothschild<sup>1</sup>, M. E Persia<sup>1</sup>, S.J. Lamont<sup>1</sup> and C.J. Schmidt<sup>3</sup>. 2014. Comparative Transcriptome Analysis of the Jejunum of a Heritage and Modern Broiler Chicken Line. Plant and Animal Genome Meeting, 2014. San Diego CA.

M. Reis<sup>3</sup> A. P. Garcia<sup>3</sup>, C.M. Ashwell<sup>2</sup>, M.F Rothschild<sup>1</sup>, M. E Persia<sup>1</sup>, S.J. Lamont<sup>1</sup> and C.J. Schmidt<sup>3</sup>. 2014. Comparative Transcriptome Analysis of the Ileum of a Heritage and Modern Broiler Chicken Line. Plant and Animal Genome Meeting, 2014. San Diego CA.

J. De Mena, C.M. Ashwell<sup>2</sup>, M.F Rothschild<sup>1</sup>, M. E Persia<sup>1</sup>, S.J. Lamont<sup>1</sup> and C.J. Schmidt<sup>3</sup>. 2014. Comparative Transcriptome Analysis of the Duodenum of a Heritage and Modern Broiler Chicken Line. Plant and Animal Genome Meeting, 2014. San Diego CA.

R.V. Davis, C.M. Ashwell<sup>2</sup>, M.F Rothschild<sup>1</sup>, M. E Persia<sup>1</sup>, S.J. Lamont<sup>1</sup> and C.J. Schmidt<sup>3</sup>. 2014. Transcriptome Analysis of Breast Muscle from a Modern and Heritage Broiler. Plant and Animal Genome Meeting, 2014. San Diego CA.

Strickland, S.J., Ashwell, C., Persia, M.E., Rothschild, M.F., Lamont, S.J., and Schmidt, C.J. 2013. Comparative transcriptome analysis of chicken heart gene expression patterns between a modern broiler and a heritage line. Plant & Animal Genome XXI, January 2013, San Diego, CA

Davis, R.V., Ashwell, C., Lamont, S.J., Persia, M.E., Rothschild, M.F., and Schmidt, C.J. 2013. Characterizing differential pectoralis muscle production and gene expression between modern and heritage Gallus broiler lines. Plant & Animal Genome XXI, January 2013, San Diego, CA

Lamont, S.J, Kaiser, M., Bjorkquist, A., Fleming, D., Rothschild, M. F., Persia, M.E., Ashwell, C. and Schmidt, C.J. 2013. Effects of thermal conditioning of embryos and heat stress of chicks on physiological responses of diverse chicken genetic lines. Plant & Animal Genome XXI, January 2013, San Diego, CA

Wang, Y., Li, J., Li, Q., Hu, X., Li, N., Hu, S., Brahmakshatriy, V., Lupiani, B., Reddy, S., Lamont, S.J., and Zhou, H. 2013. Effects of avian influenza virus infection on the transcriptome and the DNA methylome in two genetically distinct chicken lines using next generation sequencing. *Plant & Animal Genome XXI*, January 2013, San Diego, CA

Fleming, D.S., Koltes, J., Fritz, E., Reecy, R., and Lamont, S.J. 2013. The SNP discovery and genomic architecture of Leghorn and Fayoumi chicken breeds using whole genome resequencing data. *Gordon Conf. Galveston TX*

Bjorkquist, A., Kaiser, M., Rothschild, M.F., Persia, M.E., Ashwell, C., Schmidt, C.J., and Lamont, S.J. 2013. Genomics of Heat Stress in Poultry: QTL Mapping. *Gordon Conf. Galveston TX*

Wolc, A., Arango, J., Settar, P., Fulton, J.E., O'Sullivan, N.P., Preisinger, R., Habier, D., Fernando, R.L., Garrick, D. J., Lamont, S.J., and Dekkers, J.C. 2013. Genomic selection in layer chickens outperforms pedigree-based selection. *Proc. 2013 ASAS Midwestern Section / ADSA Midwestern Branch Ann. Mtg. Des Moines, IA*

Wang, Y., Lupiani, B., Reddy, S., Wang, H., Chen, R., Lamont, S.J., and Zhou, H. 2013. Lung transcriptome following avian influenza virus infection in two genetically distinct chicken inbred lines using RNA-seq. *Epigenetics Conference*, June 2013, Japan

Ashwell, C.M., Zavelo, A.E., Mitchell, A.D., Schmidt, C.J., Rothschild, M.F., Persia, M.E., and Lamont, S.J. 2013. The impact of genetics and thermal conditioning on bone mineralization in a comprehensive study of heat stress. *Proc. Poultry Sci. Ann. Mtg. San Diego, CA*

Coble, D.J., Fleming, D., Schmidt, C.J., Rothschild, M.F., Persia, M.E., Ashwell, C.M., and Lamont, S.J. 2013. RNASeq analysis of the liver transcriptome of heat-stressed broilers. *Proc. Poultry Sci. Ann. Mtg. San Diego, CA*

Zhou, H.J., Wang, Y., Lamont, S.J., and Ross, P. 2013. Re-annotation of chicken genome using RNA-seq data. *Proc. Poultry Sci. Ann. Mtg. San Diego, CA*

Zavelo, A.E., Schmidt, C.J., Rothschild, M.F., Persia, M.E., Lamont, S.J., and Ashwell, C.M. 2013. Major histocompatibility complex diversity in local Ugandan birds. *Proc. Poultry Sci. Ann. Mtg. San Diego, CA*

Lamont, S.J., Zavelo, A.E., Mitchell, A.D., Kaiser, M.G., Rothschild, M.F., Persia, M.E., Ashwell, C.M. and Schmidt, C.J. 2013. Effect of embryonic thermal conditioning on post-hatch physiology, including blood parameters, bone mineralization and response of chicks to heat stress. *Proc. 6th Combined Workshop on Fundamental Physiology and Perinatal Development in Poultry, Goettingen, Germany.*

Wolc A., Arango J., Settar P., Fulton J.E., O'Sullivan N.P., Preisinger R., Habier D., Fernando R., Garrick D.J., Lamont S.J., and Dekkers J.C.M. 2013. Genomic selection implemented in layers. *European Poultry Genetics Symposium. 25-27.09.2013 Venice. Italy.*

Sandford, E.E., Orr, M., Li, X., Zhou, H., Johnson, T.J., Kariyawasam, S., Liu, P., Nolan, L.K., Lamont, S.J. 2012. Multi-tissue, multi-time transcriptome analysis of host response to avian pathogenic *Escherichia coli*. *Proc. Avian Immunology Research Group, August 2012, Roslin, U.K.*

Lamont, S.J., Kaiser, M.G., Rothschild, M.F., Persia, M.E., Ashwell, C.M., and Schmidt, C.J. 2012. Genomics of heat stress in poultry. *Proc Intl. Soc. Animal Genetics, July 2012, Cairns, Australia*

Coble, D.J., Sandford, E.E., Ji, T., Abernathy, J., Fleming, D., Zhou, H., Lamont, S.J. 2012. Impacts of *Salmonella* Enteritidis infection on liver transcriptome in broilers. *Proc. 2012 World's Poultry Congress, July 2012, Brazil. Abstract sp27.*

Bjorkquist, A., Kaiser, M., Sandford, E.E., Nolan, L.K., and Lamont, S.J. 2012. Toll Like receptor and clusters of differentiation RNA expression levels in the bursa of Fabricius of broiler chickens challenged with avian pathogenic *Escherichia coli*. *Plant & Animal Genome XX, January 2012, San Diego, CA*

Kaiser, M., Sandford, E.E., Persia, M.E., Rothschild, M.F., Ashwell, C., Schmidt, C.J., and Lamont, S.J. 2012. Physiological differences among chicken breeds in response to embryonic thermal conditioning and post-hatch heat stress. *Plant & Animal Genome XX, January 2012, San Diego, CA*

Sandford, E.E., Orr, M., Li, X., Zhou, H., Johnson, T., Kariyawasam, S., Liu, P., Nolan, L.K., and Lamont, S.J. 2012. Insights from multi-tissue transcriptome analysis into the genomics of host resistance to avian pathogenic *Escherichia coli*. Plant & Animal Genome XX, January 2012, San Diego, CA

Strickland, S.J., Ashwell, C., Persia, M.P., Rothschild, M.F., Lamont, S.J., and Schmidt, C.J. 2012. Comparative transcriptome analysis of chicken heart gene expression patterns between a modern broiler and a heritage line. Plant & Animal Genome XX, January 2012, San Diego, CA

Sun, L., Persia, M.E., Ashwell, C., Rothschild, M.F., Lamont, S.J., and Schmidt, C.J. 2012. Transcriptome analysis of broiler chicken liver as a function of heat stress. Plant & Animal Genome XX, January 2012, San Diego, CA

Ciraci, C., and Lamont, S.J. 2011. Gene expression analysis and mechanism of action of chicken macrophage response to microorganism-derived nucleic acids. Plant & Animal Genome XIX, January 2011, San Diego, CA (<http://www.intlpag.org/web/index.php/abstracts/abstracts-archive>)

Coble, D.J., Redmond, S.B., Hale, B., and Lamont, S.J. 2011. Distinct lines of chickens express different splenic cytokine profiles in response to *Salmonella enteritidis* challenge. Proc. 100<sup>th</sup> Annual PSA Meeting, St. Louis, Missouri July 2011

Coble, D.J., Sandford, E., Abernathy, J., Zhou, H., and Lamont, S.J. 2011. Impacts of *Salmonella enteritidis* infection on liver transcriptome in broilers. Plant & Animal Genome XIX, January 2011, San Diego, CA. (URL: [http://www.intlpag.org/19/abstracts/P07a\\_PAGXIX\\_718.html](http://www.intlpag.org/19/abstracts/P07a_PAGXIX_718.html))

Deng, X., J. Arango, K. Kizilkaya, J. Zeng, W. Cai, J. Fulton, L. Peiris, C. Wang, X. Sun, P. Settar, N.P. O'Sullivan, S.J. Lamont, and J.C.M. Dekkers. 2011. Whole genome association analysis of Idiopathic Eosinophilic Enteritis in Brown Egg Layers. XIX International Plant and Animal Genome Conference. [http://www.intlpag.org/19/abstracts/P05m\\_PAGXIX\\_569.html](http://www.intlpag.org/19/abstracts/P05m_PAGXIX_569.html)

Lian, L., Ciraci, C., Chang, G., Hu, J., Lamont, S.J. 2011. NLRC5 knock-down in chicken macrophages alters response to LPS stimulation. Proc. 6<sup>th</sup> Intl. CHICK meeting, September 2011, Edinburgh UK

Redmond, S.B., Chuammitri, P., Andreasen, C. B., Palic, D., Lamont, S.J. 2011. Genome-wide analysis of chicken heterophil functional response to *Salmonella* on advanced intercross lines reveals associations with known resistance loci, novel loci, and a likely mechanism for cell death through extracellular trap production. Plant & Animal Genome XIX, January 2011, San Diego, CA.

Sandford, E., Orr, M., Li, X., Zhou, H., Johnson, T., Kariyawasam, S., Liu, P., Nolan, L., and Lamont, S.J. 2011. Blood leukocyte transcriptomics of broiler chicks infected with avian pathogenic *Escherichia coli*. Poultry Science Assoc. July 2011, St. Louis, MO

Sandford, E., Orr, M., Li, X., Zhou, H., Johnson, T.J., Kariyawasam, S., Liu, P., Nolan, L.K., and Lamont, S.J. 2011. Whole Transcriptome Response of Peripheral Blood Leukocytes to Avian Pathogenic *Escherichia coli* Infection in Broiler Chickens. Proc. 7<sup>th</sup> European Poultry Breeders Roundtable, October 5-7, 2011, Peebles Hydro, UK

Wang, C., D. Habier, A. Kranis, K. Watson, S. Avendano, D. Garrick, R. Fernando, S. Lamont, and J. Dekkers. 2011. Accuracy of genomic EBV using an evenly spaced low density SNP panel in broiler chickens. XIX International Plant and Animal Genome Conference. [http://www.intl-pag.org/19/abstracts/P05m\\_PAGXIX\\_580.html](http://www.intl-pag.org/19/abstracts/P05m_PAGXIX_580.html)

Wang, C., D. Habier, A. Kranis, K. Watson, S. Avendano, D. Garrick, R. Fernando, S. Lamont, and J. Dekkers. 2011. Accuracy of genomic EBV using an evenly spaced low density SNP panel in broiler chickens. J. Anim. Sci. 89, E Suppl.2: 30. [http://www.asas.org/abstracts/ASAS\\_2011\\_Sect\\_ABS\\_E-Supplement-2.pdf](http://www.asas.org/abstracts/ASAS_2011_Sect_ABS_E-Supplement-2.pdf)

Wang, C., D. Habier, A. Wolc, A. Kranis, K.A. Watson, S. Avendano, D.J. Garrick, R. Fernando, S.J. Lamont, and J.C.M. Dekkers. 2011. Accuracy of genomic EBV using an evenly-spaced, low-density, 384-SNP panel in broiler chickens. P73 in: Proceeding 7<sup>th</sup> European Symposium on Poultry Genetics. <http://www.roslin.ed.ac.uk/7espg/assets/7espg-edited-proceedings.pdf>

Wang Y., V. Brahmakshatriya, B. Lupiani, S. Reddy, B. S. Lamont, H. Zhou. 2011. Identification of differentially expressed MicroRNAs associated with Avian Influenza Virus Infected in two genetically distinct Chicken Lines. Proc. Plant & Animal Genome XIX, January 2011. San Diego, CA.

- Wolc, A., Arango J., Settar P., Fulton J.E., O'Sullivan N.P., Preisinger R., Habier D., Fernando R., Garrick D.J., Lamont S.J., Dekkers J.C.M. 2011 Estimated breeding values accuracy and persistency in layers using marker and pedigree based relationship matrices. J. Anim. Sci. 89, E Suppl.2: 57. [http://www.asas.org/abstracts/ASAS\\_2011\\_Sect\\_ABS\\_E-Supplement-2.pdf](http://www.asas.org/abstracts/ASAS_2011_Sect_ABS_E-Supplement-2.pdf)
- Wolc, A., J. Arango, P. Settar, J. Fulton, N. O'Sullivan, R. Preisinger, D. Habier, D. Garrick, R. Fernando, S. Lamont, and J. Dekkers. 2011. Persistence of accuracy of estimated breeding values in layers using marker and pedigree based relationship matrices. XIX International Plant and Animal Genome Conference. [http://www.intl-pag.org/19/abstracts/P05m\\_PAGXIX\\_566.html](http://www.intl-pag.org/19/abstracts/P05m_PAGXIX_566.html).
- Wolc, A., J. Arango, P. Settar, J. Fulton, N. O'Sullivan, R. Preisinger, D. Habier, D. Garrick, R. Fernando, S. Lamont, and J. Dekkers. 2011. Persistence of accuracy of estimated breeding values in layers using marker and pedigree based relationship matrices. J. Anim. Sci. 89, E Suppl.2: 29. [http://www.asas.org/abstracts/ASAS\\_2011\\_Sect\\_ABS\\_E-Supplement-2.pdf](http://www.asas.org/abstracts/ASAS_2011_Sect_ABS_E-Supplement-2.pdf)
- Balfanz, E.E., Sandford, E.E., Kaiser, M.G., and Lamont, S.J. 2010. Differential immunological gene expression following *E. coli* infection in chickens. One Health Symposium: People, Plants and Animals. Iowa State University, Ames IA. September 15, 2010. Abstract 40.
- Ciraci, C., and Lamont, S.J. 2010. Gene expression analysis and mechanism of action of chicken macrophage response to microorganism-derived nucleic acids. One Health Symposium: People, Plants and Animals. Iowa State University, Ames IA. September 15, 2010. Abstract 37.
- Ciraci, C., Tuggle, C.K., Wannemuehler, M.J., Nettleton, D., and Lamont, S.J. 2010. Unique genome-wide transcriptome profiles of chicken macrophages upon exposure to *Salmonella*-derived endotoxin. P738. Proc. Plant & Animal Genome XVIII, San Diego, CA.
- Coble, D. Redmond, S.B., Hale, B., and Lamont, S.J. 2010. Distinct lines of chicken use different immune mechanisms in response to *Salmonella enteritidis*. One Health Symposium: People, Plants and Animals. Iowa State University, Ames IA. September 15, 2010. Abstract 39.
- Dekkers, J.C.M., Stricker, C., Fernando, R.L., Garrick, D.J., Lamont, S.J., O'Sullivan, N.P., Fulton, J.E., Arango, J., Settar, P., Kranis, A., McKay, J., Koerhuis, A., Preisinger, R. 2010. Implementation of genomic selection in egg layer chickens. W493. Proc. Plant & Animal Genome XVIII, San Diego, CA. [http://www.intl-pag.org/18/abstracts/W68\\_PAGXVIII\\_493.html](http://www.intl-pag.org/18/abstracts/W68_PAGXVIII_493.html)
- Dekkers, J.C.M., C. Stricker, R.L. Fernando, D.J. Garrick, S.J. Lamont, N.P. O'Sullivan, J.E. Fulton, J. Arango, P. Settar, A. Kranis, J. McKay, A. Koerhuis, and R. Preisinger. 2010. Implementation of genomic selection in egg layer chickens. ADSA/ASAS annual meeting. Late breaking Abstract # LB6. J. Anim. Sci. 87 E Suppl. 2. <http://adsa.asas.org/meetings/2009/abstracts/toc.htm>
- Redmond, S.B. and Lamont, S.J. 2010. SNP association analysis of two chicken advanced intercross lines for growth. P588. Proc. Plant & Animal Genome XVIII, San Diego, CA.
- Redmond, S.B., Lamont, S.J., Andreasen, C.B., and Palić, D. 2010. Genome-wide analysis of chicken heterophil function reveals associations with known disease resistance loci and a likely mechanism for cell death through extracellular trap production. One Health Symposium: People, Plants and Animals. Iowa State University, Ames IA. September 15, 2010. Abstract 38.
- Sandford, E., Orr, M., Li, X., Liu, P., Nolan, L., Zhou, H., and Lamont, S.J. 2010. Splenic gene expression after infection of broiler chickens with avian pathogenic *Escherichia coli*. 32<sup>nd</sup> Conf. Internatl. Soc. Animal Genet., July 2010, Edinburgh, Scotland
- Sandford, E., Lamont, S.J., Orr, M., Liu, P., Nolan, L., Li, X., and Zhou, H. 2010. Splenic gene expression after infection of broiler chickens with avian pathogenic *Escherichia coli*. One Health Symposium: People, Plants and Animals. Iowa State University, Ames IA. September 15, 2010. Abstract 36.
- Wolc, A., C. Stricker, J. Arango, P. Settar, J.E. Fulton, N. O'Sullivan, D. Habier, R.L. Fernando, D.J. Garrick, S.J. Lamont, J.C.M. Dekkers. 2010. Breeding value prediction for production traits In layers Using pedigree And marker based

methods. 9<sup>th</sup> World Congress on Genetics Applied to Livestock Production.  
<http://www.kongressband.de/wcgalp2010/assets/html/0552.htm>

Abasht, B., Beach, E., Arango, J., Settar, P., Fulton, J.E., O'Sullivan, N.P., Hassen, A., Habier, D., Fernando, R.L., Dekkers, J.C.M., Lamont, S.J. 2009. Extent and consistency of linkage disequilibrium and identification of DNA markers for production and egg quality traits in commercial layer chicken populations. W395. Proc. Plant & Animal Genome XVII, San Diego, CA.

Beach, E., Ciraci, C., Abasht, B., Dekkers, J.C.M, and Lamont, S.J. 2009. SNPs in region of NF-kappa-B gene associated with expression of immune-related genes. Proc Poultry Science Association Annual Meeting, July 2009, Raleigh NC

Ciraci, C., Tuggle, C., Wannemuehler, M., and Lamont, S.J. 2009. *Salmonella* endotoxin effects on expression of immune response genes in chicken macrophages. Proc.18th Ann. Growth Factor Signal Transduction Symp. 2009 June 11-14. Iowa State University, Ames, Iowa.

Ciraci, C., Tuggle, C.K., Wannemuehler, M.J., Nettleton, D., and Lamont, S.J. 2009. Chicken macrophage transcriptional response to TLR pathway stimulants. Proc. EADGENE conference: Genomics for Animal Health: Outlook for the Future, Paris, France.

Dekkers, J.C.M., C. Stricker, R. L. Fernando, D. J. Garrick, S. J. Lamont, N. P. O'Sullivan, J. E. Fulton, J. Arango, P. Settar, A. Kranis, J. McKay, K.A. Watson, A. Koerhuis, and R. Preisinger. 2009. Implementation of Genomic Selection in Egg Layer Chickens. Proc Amer Soc Anim Sci Annual Meeting

Izadi, F., Lamont, S.J., Ritland, K., and Cheng, K.M. 2009. Genetic diversity of free-run/free-range chicken flocks estimated by neutral and adaptive molecular markers. P515. Proc. Plant & Animal Genome XVII, San Diego, CA.

Peiris, B. L., Ralph, J. Lamont, S.J. and Dekkers, J.C.M. 2009. Predicting allele frequencies in DNA pools using Illumina high density SNP genotyping data. Midwest ADSA/ASAS Meeting, Des Moines, Abstract # 40.

Peiris, B. L., Lamont, S.J., Watson, K.A. and Dekkers, J.C.M. 2009. Comparison of Chi-square, ANOVA, and MANOVA for analysis of high-density SNP data from case-control pools. Statistical Genetics of Livestock for the Post-Genomic Era Symposium, University of Wisconsin. <http://dysci.wisc.edu/sglpge/posters.html>

Redmond, S.B., Tell, R. Coble, D., Mueller, C., Palić, D., Andreasen, C.B. and Lamont, S.J. 2009. Immunonutrigenomics of the chicken spleen. Proc.18th Ann. Growth Factor Signal Transduction Symp. 2009 June 11-14. Iowa State University, Ames, Iowa.

Zhou, H., Dowd, S.E., Lamont, S.J. 2009. Global transcriptional profiles reveal distinct mechanisms of innate response to salmonella in three genetic lines of chickens. P507. Proc. Plant & Animal Genome XVII, San Diego, CA.

Abasht, B., Beach, E., Arango, J.A., Settar, P., Fulton, J.E., O'Sullivan, N.P., Fernando, R.L., Dekkers, J.C.M., and Lamont, S.J. 2008. SNP Markers for production and egg quality QTLs in layer lines. Proc. Conf Avian Genomics, Mississippi State Univ, Starkville, MS

Beach, E., Andreescu, C., Abasht, B., Lamont, S.J., Fulton, J., O'Sullivan, N. and Dekkers, J.C.M. 2008. Level and consistency of linkage disequilibrium in commercial layer chicken populations. Proc. Plant & Animal Genome XVI, San Diego, CA.

Block, S.S., Kaiser, M.G., Beach, E., Sifri, M. and Lamont, S.J. 2008. Natural source vitamin E (RRR-Alpha-Tocopheryl Acetate) level in broiler diets modulates expression of some cytokines. Proc. Poultry Sci Assoc Annual meeting, July 2008, Niagara Falls, Ontario, Canada.

Cheeseman, J., Lillehoj, H.S., and Lamont, S.J. 2008. Knock-down by iNOS siRNAs specifically reduces nitric oxide production in interferon-stimulated avian macrophages. Proc. Avian Immunol. Res. Group Meeting, Noosa, Australia

Hasenstein, J.R., Hassen, A., Dekkers, J.C.M., and Lamont, S.J. 2008. Whole-genome QTL analysis of response to *Salmonella* in advanced intercross line chicks. Proc. Plant & Animal Genome XVI, San Diego, CA.



- Hu, Z.-L., Fritz, E.R., Dracheva, S., Abasht, B., Meyers, S.M., Larkin, D.M., Bastiaansen, J., Scott, C., Li, X.-P., Jang, W., Kim, K.-S., Maglott, D., Humphray, S., Beever, J.E., Lamont, S.J., Lewin, H.,A., Zhao, S.-H., Rogers, J., Maddox, J., Rothschild M.F., and Reecy, J.M. (2008). "Animal QTLdb: A Tool Set to Warehouse and Compare Cattle, Pigs, Chicken and Sheep QTL Within and Between Species." International Society for Animal Genetics (ISAG), Amsterdam, The Netherlands, July 20-24, 2008.
- Kaiser, M.G. and Lamont, S.J. 2008. Differential expression of cell surface receptor RNA in chicken immune defense against *Salmonella enteritidis* infection. Proc. Intl. Symp. Animal Functional Genomics, Edinburgh, UK
- Lamont, S.J. 2008. Integrated genomics to enhance host resistance to bacterial colonization in poultry. Proc World's Poultry Congress, Brisbane, Australia
- Izadi, F., Lamont, S.J., Kaiser, M.J., and Cheng, K.M. 2008. Genetic variations in immune-related genes in free-run and free-range chicken flocks. Proc. Poultry Sci Assoc Annual Meeting, July 2008, Niagara Falls, Ontario, Canada
- Redmond, S.B., Chuammitri, P., Palić, D., Andreasen, C., and Lamont, S.J. 2008. Genetic differences in expression of immune response genes by chicken heterophils stimulated with *Salmonella enteritidis*. Proc. Avian Immunol. Res. Group Meeting, Noosa, Australia
- Abasht, B., and Lamont, S.J. 2007 High-density SNP association with fatness QTL on Chromosomes 1 – 5 in chickens. P 559. Proc. Plant & Animal Genome XV, San Diego, CA.
- Andreescu, C., Ralph, J.J., Hassen, A., Lamont, S.J., and Dekkers, J.C.M. 2007. Correspondence of relationships between breeding lines based on marker allele frequencies and marker-marker linkage disequilibrium. Midwest Animal Science Meeting, Des Moines.
- Cheng, H., Niikura, M., Kim, T., Mao, W., MacLea K.S., Hunt, H., Dodgson, J., Burnside, J., Morgan, R., Ouyang, M., S. Lamont, S., Dekkers, J., Fulton, J., Soller, M., and Muir, W. 2007. Using integrative genomics to elucidate genetic resistance to Marek's disease in chicken. Proc. Animal Genomic for Animal Health Symp., October 23-25, 2007, Paris, OIE
- Hasenstein, J., Hassen, A., Dekkers, J.C.M, and Lamont, S.J. 2007 High-density SNP analysis of chromosome 3 associations with *Salmonella* burden in two advanced intercross chicken lines P563. Proc. Plant & Animal Genome XV, San Diego, CA.
- Hasenstein, J.R., Hassen, A.T., Dekkers, J.C.M., and Lamont, S.J. 2007. High resolution, advanced intercross mapping of host resistance to *Salmonella* colonization. Proc. Animal Genomics for Animal Health Symp., October 23-25, 2007, Paris, OIE
- Hassen, A., Avendano, S., Lamont, S.J., Hill, W.G., and Dekkers, J.C.M. 2007. The effect of heritability estimates on high-density SNP analyses with related animals. Midwest Animal Science Meeting, Des Moines
- Hu, Z., Fritz, E.R., Abasht, B., Lamont, S.J. and Reecy, J.M. 2007. Animal QTLdb: Qtl data curation issues, solutions and lessons. 2<sup>nd</sup> Intl. Biocuration Mtg. San Jose, CA, 25-28 Oct 2007.
- Kaiser, M. and Lamont, S.J. 2007. Differential expressional levels of RANTES, MCP, and CXCR4 RNA in response to *Salmonella enteritidis* challenge in young chicks. P 565. Proc. Plant & Animal Genome XV, San Diego, CA.
- Kim, D.K., Hong, Y.H., D.W Park, D.W., Lamont, S.J., and Lillehoj, H.S. 2007. Differential gene expression in two genetically disparate chicken lines during infection with *Eimeria maxima*. Proc. Animal Genomic for Animal Health Symp., October 23-25, 2007, Paris, OIE
- Ahmed, A.S., Hasenstein, J.R., and Lamont, S.J. SLC11A1, Prosaposin, TLR4, and IFNG gene polymorphism associations with antibody kinetics in adult chickens. Proc. Poultry Science Assoc. Ann. Meeting, Edmonton, Alberta, Canada, July 16-19, 2006.
- Cheeseman, J. H., Kaiser, P. and Lamont, S.J. 2006. Interleukin gene expression and macrophage cell dynamics in the avian cecum after *Salmonella enteritidis* infection. J. Immunol. 197: S35.

- Ghebremicael, S.B., Hasenstein, J.R., and Lamont, S.J. Association of IL-10 cluster genes and Salmonella response in chicken. Proc. Poultry Science Assoc. Ann. Meeting, Edmonton, Alberta, Canada, July 16-19, 2006.
- Hasenstein, J.R. and Lamont, S.J. Four Gallinacin genes and Salmonella response in chickens, Proc. 8<sup>th</sup> World Congress Genetics Appl. Livestock Prod., Belo Horizonte, MG, Brazil, August 13-18, 2006.
- Hasenstein, J.R., Dekkers, J.C.M., and Lamont, S.J. 2006. Chromosomal linkage disequilibrium in two advanced intercross lines of poultry designed for disease resistance genetic studies. In: Proc Stadler Genetics Symposium, Columbia, MO. Oct. 2-4, 2006.
- Koren, E., Zhou, H., Cahaner, A., Heller, E.D., Pitcovski, J., and Lamont, S.J. 2006. Unique co-expression of immune-cell-related genes in IBDV-resistant chickens indicates the activation of specific cellular host-response mechanisms. Proc. Plant & Animal Genome XIV, San Diego, CA.
- Lamont, S.J. 2006 Analysis of quantitative disease resistance traits. Proc. Poultry Science Assoc. Ann. Meeting, Edmonton, Alberta, Canada, July 16-19, 2006.
- Lamont, S.J., Ye, X., and Zhou, H. 2006. Global microarray gene expression profiling of response of F8 advanced intercross line chicks to Salmonella challenge. Proc. Avian Immunol. Research Group, Paris, France, October 21-24, 2006.
- van der Poel, J.J., Berry, N.U, Onzima, R., and Lamont, S.J.. 2006. Refining the definition of MHC haplotypes by use of SNP in TAP1, TAP2, and Tapasin genes. Proc. Avian Immunol. Research Group, Paris, France, October 21-24, 2006.
- Ye, X., Avendano, S., Dekkers, J.C.M. and Lamont, S.J. 2006. Variation in immune genes associated with body weight and feed conversion in elite commercial broiler lines. Proc. Plant & Animal Genome XIV, San Diego, CA.
- Zhou, H., Nettleton, D.S., and Lamont, S.J. 2006. Gene expression changes in the spleen after *Salmonella enteritidis* challenge of F8 advanced intercross lines of chickens. Proc. Plant & Animal Genome XIV, San Diego, CA.
- Berry, N. U., van der Poel, J. J., and Lamont, S. J. 2005. Polymorphism in TAP1, TAP2, TAPASIN, Genes of the Chicken and MHC-linked Response to GAT. Page 110 in Proc Third Internatl Symp on Genetics of Animal Health, ed. S. J. Lamont, M. Rothschild and D. L. Harris. Iowa State University, Ames, IA.
- Cheeseman, J. H., Kaiser, P., and Lamont, S. J. 2005. Cytokine gene expression in spleen and ceca of three genetic lines of chickens exposed to Salmonella enteritidis. Page 111 in Proc Third Internatl Symp on Genetics of Animal Health, ed. S. J. Lamont, M. Rothschild and D. L. Harris. Iowa State University, Ames, IA.
- Ciraci, C., Cheeseman, J. H., and Lamont, S. J. 2005. Early apoptotic gene expression levels in three chicken genetic lines exposed to Salmonella enteritidis. Page 112 in Proc Third Internatl on Genetics of Animal Health, ed. S. J. Lamont, M. Rothschild and D. L. Harris. Iowa State University, Ames, IA.
- Hasenstein, J. R., Zhang, G., and Lamont, S. J. 2005. Analysis of five Gallinacin genes in a salmonella enteritidis resource population in poultry. Page 107 In: Proc. Plant and Animal Genome XIII, San Diego, CA, January 15-19.
- Hasenstein, J. R., Zhang, G. and Lamont, S.J., 2005 Small Peptide, Sizable Effects: Gallinacin 7 and Salmonella Resistance in Chickens, pp. 118 in Proc Third International Symposium on Genetics of Animal Health, ed. S. J. Lamont, M. Rothschild and D. L. Harris. Iowa State University, Ames, IA.
- Kaiser, M. G., Kaiser, P., and Lamont, S. J. 2005. Genetic line differences in IL-2, IL-6, IL-5, IL-18, and IFN-gamma mRNA levels in response to salmonella exposure in chickens. Page 547. In: Proc. Plant and Animal Genome XIII, San Diego, CA, January 15-19.
- Kaiser, M.G., Kaiser, P., and Lamont, S. J. 2005. Genetic line differences in IL-2, IL-6, IL-15, IL-18, TGF-  $\beta$ 4 and IFN- $\gamma$  cecal mRNA levels in response to Salmonella exposure in chickens. in: Proc. Third International Symposium on Genetics of Animal Health. eds. Susan J. Lamont, Max F. Rothschild and D.L. Hank Harris. Ames IA. p. 22.
- Lamont, S. J. 2005. Integrated Approaches toward Cloning of QTLs for Resistance of Chickens to Salmonella. Abstract W309 in Proc Plant and Animal Genome XIII, San Diego, CA, January 15-19.

- Lamont, S. J. 2005. A bird's-eye view of progress in avian immunology. Pp 131. in Proc 86th Conf Research Workers in Animal Diseases, ed. Robert P. Ellis, Blackwells Publ, Ames, IA
- McElroy, J. P., Zhang, W., Koehler, K. J., Lamont, S. J., and Dekkers, J. C. M. 2005. Comparison of Cox, Weibull, and linear regression models to detect marker associations with survival traits using full and selective genotyping. Pp. 208. In: Proc. Plant and Animal Genome XIII, San Diego, CA, January 15-19.
- Rothschild, M. F., Lamont, S. J., and Reecy, J. M. 2005. Current status of animal genomics. In: Proc. Annual AAAS Meeting, Washington, DC, February 17-19.
- van den Burg, B. H. J., Pinggen, E. J. H., Harris, T., McCarthy, F. M., Lamont, S. J., Zhou, H., Holmes, W.E., and Burgess, S. C. 2005. Differential detergent fractionation and frozen whole organ proteomics. *Amer. Soc. Mass Spectrometry* 16(5s):69s.
- Van der Poel, J.J., Berry, N. U., Onzima, R., and Lamont, S. J. 2005. Polymorphism in TAP1, TAP2, and TAPASIN Genes Refine Definition of MHC Haplotypes. Page 22 in Proc 14th Annual Growth Factor & Signal Transduction Conf on the Integration of Structural and Functional Genomics. Iowa State University, Ames, IA. (Abstr.)
- Ye, X., Avendano, S., Dekkers, J. C. M., and Lamont, S. J. 2005. Immune-related gene polymorphisms and mortality in broiler chickens. Pp 47 in Third International Symposium on Genetics of Animal Health, ed. S. J. Lamont, M. Rothschild and D. L. Harris. Iowa State University, Ames, IA.
- Ye, X., McLeod, S., Elfick, D., Dekkers, J. C. M., and Lamont, S. J. 2005. Estimation of SNP allele frequencies using sequence traces from DNA pools. In: Proc. Plant and Animal Genome XIII, San Diego, CA, January 15-19.
- Zhou, H., Deeb, N., Evock-Clover, C., Ashwell, C. M., and Lamont, S. J. 2005. Genome-wide linkage and QTL mapping of phenotypic traits in the chicken. Pp. 209. In: Proc. Plant and Animal Genome XIII, San Diego, CA, January 15-19.
- Kaiser, M. G., Cheeseman, J. H., Kaiser, P., and Lamont, S. J. 2004. Genetic line differences in interleukin mRNA expression of blood leukocytes exposed to *Salmonella enteritidis* in vitro. In: *Proc. 8<sup>th</sup> Avian Immunol Research Group*, Munich, Germany, September 4-7, Pp. 89.
- Lamont, S. J. 2004. Candidate genes and response to *Salmonella* in chickens. In: *Proc. Genesis-Faraday Symposium*, Edinburgh, Scotland, January 14, Pp.
- Lamont, S. J. 2004. Candidate genes associated with response to *Salmonella enteritidis* in young chickens. In: *Proc. 7<sup>th</sup> Intl Vet Immunol Symp*, Quebec City, July 25-30, Pp. 335.
- Lamont, S. J. 2004. Identification of genes affecting immunity and disease resistance. In: *Proc. XXII World's Poultry Congress*, Istanbul, Turkey, June 8-13, Pp. 186.
- Lamont, S. J. 2004. New advances in controlling poultry disease. *British Poultry Science* 45(Suppl. 1):S11.
- Malek, M., Hasenstein, J. R., and Lamont, S. J. 2004. Analysis of chicken *TLR4*, *CD28*, *MIF*, *MD-2*, and *LITAF* genes in *Salmonella enteritidis* resource population in poultry. In: *Proc. Plant and Animal Genome XII*, San Diego, CA, January 10-14.
- Wang, X., Carre, W., Zhou, H., Lamont, S. J., and Cogburn, L. A. 2004. Characterization of duplicated spot 14 genes in the chicken and association with abdominal fat traits. In: *Proc. Plant and Animal Genome XII*, San Diego, CA, January 10-14.
- Zhou, H., Nettleton, D., and Lamont, S. J. 2004. Early gene expression changes after *Salmonella* challenge of young chickens. In: *Proc. 8<sup>th</sup> Avian Immunology Research Group*, Munich, Germany, September 4-7, Pp. 41
- Zhou, H., Nettleton, D. S., and Lamont, S. J. 2004. Gene expression differences associated with *Salmonella* challenge in three distinct genetic lines. In: *Proc 7<sup>th</sup> Intl Vet Immunol Symp*, Quebec City, July 25-30, Pp 162.

- Zhou, H., Nettleton, D. S., and Lamont, S. J. 2004. Gene expression profiling of diverse chicken genetic lines by microarray. In: *Proc. Plant and Animal Genome XII*, San Diego, CA, January 10-14.
- Zhou, H., Mitchell, A. D., McMurtry, J. P., Ashwell, C. M., and Lamont, S. J. 2004. Associations of single nucleotide polymorphism in insulin-like growth factor 1 gene with growth, body composition, skeletal integrity and metabolic traits in chickens. In: *Proc. XXII World's Poultry Congress*, Istanbul, Turkey, June 8-13, Pp. 174.
- Cheeseman, J. H., Kaiser, M. G., and Lamont, S. J. 2003. Genetic line effects on peripheral blood leukocyte cell surface antigens in chickens. Conf. Research Workers Anim. Dis., Chicago, Illinois, November 9-11.
- Kaiser, M. G., Lanning, J. D., Ingleby, L. J., and Lamont, S. J. 2003. Interval mapping of QTL for salmonella colonization in F1 crosses if outbred by inbred chickens. In: *Proc. Plant and Animal Genome XI*, San Diego, CA, January 11-15.
- Kramer, J., Malek, M., and Lamont, S. J. 2003. Candidate gene analysis to salmonella resistance in meat-type chickens. In: *Proc. Plant and Animal Genome XI*, San Diego, CA, January 11-15.
- Loneragan, S. M., Deeb, N., Fedler, C. A., and Lamont, S. J. 2003. Breast meat quality and composition in unique chicken populations. *Poultry Sci.* 82(Suppl. 1):48.
- Malek, M., and Lamont, S. J. 2003. Response to Salmonella enteritidis in chickens associated with INOS, TRAIL, TGFB2, TGFB3, and IGL genes. In: *Proc. Plant and Animal Genome XI*, San Diego, CA, January 11-15.
- McElroy, J. P., Cheng, H. H., Fulton, J., Soller, M., Lipkin, E., Dekkers, J. C. M., and Lamont, S. J. 2003. Markers associated with Marek's disease survival in commercial layers. *Poultry Sci.* 82(Suppl. 1):24.
- Zhou, H. and Lamont, S. J. 2003. Network interactions among fifteen candidate genes for immunity hens. In: *Proc. Plant and Animal Genome XI*, San Diego, CA, January 11-15.
- Zhou, H., Deeb, N., Mitchell, A., Ashwell, C., and Lamont, S. J. 2003. Associations of BMP genes with skeletal integrity traits in chickens. *Poultry Sci.* 82(Suppl. 1):23.
- Ashwell C. M., McMurtry, J. P., Deeb, N., and Lamont, S. J. 2002. Endocrine and metabolic factors in unique inbred x outbred chicken crosses. In: *Proc. 7th World Cong. Genetics Appl. Livestock Prod.* August 19-23, Montpellier, France, CD-Rom.
- Deeb N., Li, H., Ashwell, C. M., and Lamont, S. J. 2002. Association of polymorphisms in apo-VLDL-II and LPL genes with growth and carcass composition of an F2 inbred by outbred chicken cross. 28th Conf. Intl. Society Animal Genetics. August 11-15, Göttingen, Germany.
- Lamont, S. J., 2002. Unique population designs used to address molecular genetics questions in poultry. *Poultry Sci.* 80 (Suppl. 1):2.
- Lamont, S. J. and Liu, W. 2002. Candidate genes and response to Salmonella enteritidis challenge or vaccine in young chicks. *Proc. Second Intl. Symp. Candidate Genes for Animal Health.* Montpellier, France. August 16 - 18, 2002.
- Li, H., Deeb, N., Zhou, H., Ashwell, C. M., and Lamont, S. J. 2002. Chicken QTLs for growth, body composition, and metabolic factors associated with TGF-beta family genes. In: *Proc. Plant, Animal & Microbe Genomes X.* Pp 137.
- McElroy, J. P., Harry, D. E., Dekkers, J.C.M., and Lamont, S.J. 2002. Molecular markers associated with growth and carcass traits in meat-type chickens. In: *Proc. 7th World Cong. Genetics Appl. Livestock Prod.* August 19-23, Montpellier, France, CD-Rom Comm. No. 04-04.
- Zhou, H. and Lamont, S.J. 2002. Associations of TGFB genes with antibody response kinetics in mature hens. *Poultry Sci.* 81(Suppl. 1):35.
- Zhou, H. and Lamont, S.J. 2002. Chicken MHC class I and class II gene effects on antibody response kinetics in chickens. In: *Proc. Plant, Animal & Microbe Genomes X.* Pp137.

- Zhou, H., Li, H., and Lamont, S. J. 2002. Microsatellites associated with antibody kinetics in adult chickens. In: *Proc. Plant, Animal & Microbe Genomes X*. Pp 111.
- Deeb, N., Ashwell, C. M., and Lamont, S. J. 2001. The Iowa growth and composition resource population, an outbred by inbred cross for QTL identification in chickens. Pp. 206. In: *Proc. Plant and Animal Genome IX*. San Diego, January.
- Kaiser, M. G. and Lamont, S. J. 2001. Identification of QTL-markers linked to *Salmonella enteritidis* pathogen load in cecal content of broiler X inbred chicken crosses. Pp. 206. In: *Proc. Plant and Animal Genome IX*. San Diego, January.
- Lamont, S. J. 2001. Immunity enhancement by the candidate gene approach. Pp. 128-136. In: *XII International Congress of the World Veterinary Poultry Association*. Cairo, September 17-21, Egyptian Branch of the World Veterinary Poultry Association.
- Lamont, S. J. 2001. Integration of molecular and quantitative methodologies for enhanced efficiency of genetic selection for biological improvement in poultry. Pp. 52. In: *Proc. Plant and Animal Genome IX*. San Diego, January.
- Lamont, S. J., Kaiser, M. G., and Liu, W. 2001. Candidate genes for resistance to *Salmonella enteritidis* colonization in chickens as detected in a novel genetic cross. Pp. 65. In: *Proc. 6<sup>th</sup> International Veterinary Immunology Symposium*. Uppsala, Sweden, July.
- Lamont, S. J., and Liu, W. 2001. Additional evidence for the chicken MHC as the "minimal" MHC: class II transactivator, CIITA. Pp. 206. In: *Proc. Plant and Animal Genome IX*. San Diego, January.
- Liu, W. and Lamont, S. J. 2001. Candidate genes for vaccine and challenge response to *Salmonella enteritidis* in young chicks. Pp. 147. In: *Proc. Plant and Animal Genome IX*. San Diego, January.
- Zhou, H., Weigend, S., and Lamont, S. J. 2001. Effect of IAP1 and ZOV3 genes on antibody response kinetics in adult chickens. Pp. 147. In: *Proc. Plant and Animal Genome IX*. San Diego, January.
- Deeb, N., Grapes, L., and Lamont, S. J. 2000. Microsatellites markers associated with QTL for body weight of chickens in different genetic backgrounds. 89-th Annual Meeting of Poultry Science Association. August, Montreal, Canada. Pp.10.
- Kaiser, M. G., Deeb, N., and Lamont, S. J. 2000. Microsatellite markers of *Salmonella enteritidis* vaccine response in young broiler and broiler-inbred cross chicks. In Proceedings of 6<sup>th</sup> Avian Immunology Research Group Meeting. Ithaca, NY. Pp. 55.
- McElroy, J., Zhou, H., Dekkers, J. C. M., and Lamont, S. J. 2000. Accuracy of DNA pooling to estimate microsatellite frequency. *J. Anim. Sci.* 78 (Suppl 1.):77.
- Zhou, H., Weigend, S., and Lamont, S. J. 2000. Microsatellite markers of antibody response in adult chickens. In: *Proc. Intl. Conf. on Animal Genetics*, Minneapolis, MN, July.
- Liu, W. and Lamont, S. J. 2000. Molecular analysis of chicken MHC class I genes using base excision sequence scanning. Pp. 170. In: *Proc. Plant and Animal Genome VIII*. San Diego, January.
- Zhou, H., Buitenhuis, B., and Lamont, S. J. 2000. Candidate genes for polygenic control of antibody response in chickens. Pp 169. In: *Proc. Plant and Animal Genome VIII*. San Diego, January.
- Kaiser, M. G. and Lamont, S. J. 1999. Genetic line effect on bacterial burden in cecal lumen and spleen after intra-esophageal inoculation of *Salmonella enteritidis* in layer chicks. *Poultry Sci.* 78 (Suppl. 1):38.
- Liu, W. and Lamont, S. J. 1999. Sequence variation of major histocompatibility complex (MHC) class I cDNA in Leghorn, Fayoumi, and Spanish inbred lines and broilers. *Poultry Sci.* 78 (Suppl. 1):38.
- Weigend, S. and S. J. Lamont. 1999. Effects of long-term selection for immune response: alterations in antibody kinetics and molecular MHC markers. Pp. 179. In: *Proc. of "From Jay Lush to Genomics: Visions for Animal Breeding and Genetics*. Eds, J. C. M. Dekkers, S. J. Lamont, and M. F. Rothschild. Iowa State University, Ames, IA.

- Zhou, H. and Lamont, S. J. 1999. Application chicken gene primer kit#1: comparisons between Leghorn and Fayoumi inbred chicken lines and mammalian species. *Poultry Sci.* 78 (Suppl. 1):162.
- Zhou, H. and Lamont, S. J. 1999. Microsatellite markers to estimate genetic distances among pedigree-defined inbred chicken lines of commercial and exotic origin. Pp. 175. In: *Proc. of "From Jay Lush to Genomics: Visions for Animal Breeding and Genetics*. Eds, J. C. M. Dekkers, S. J. Lamont, and M. F. Rothschild. Iowa State University, Ames, IA.
- Zhou, H. and Lamont, S. J. 1999. Genetic characterization of biodiversity in highly inbred chicken lines by microsatellites. Pp. 156. In: *Proc. Plant and Animal Genome VII*. San Diego, January.
- Chen, Y., Carpenter, S. L., and Lamont, S. J.. 1998. DNA regulatory elements in a chicken major histocompatibility complex class II gene promoter. *Proc. 5<sup>th</sup> Avian Immunology Research Group*, Turku, Finland, Pp. 32.
- Chen, Y., Park, G. S., Redinger, E. A., Carpenter, S. L., and Lamont, S. J.. 1998. DNA regulatory elements in a chicken major histocompatibility complex II gene promoter. Pp 178. In: *Proc. Plant and Animal Genome VI*. San Diego, CA, January 18-22.
- Kaiser, M. G., Yonash, N., Cheng, H. H., Cahaner, A., and Lamont, S. J. 1998. Microsatellite polymorphism among and within broiler chicken lines. Pp 94. In: *Proc. Plant and Animal Genome VI*. San Diego, CA, January 18-22.
- Karaca, M., Johnson, E., and Lamont, S. J. 1998. Genetic line and MHC effects on primary and secondary antibody responses to T-dependent and T-independent antigens. *Poultry Sci.* 77(suppl 1):99
- Kaiser, M. G., Wing, T., Cahaner, A., and Lamont, S. J. 1997. Line difference and heritability of early antibody response to *Salmonella enteritidis* vaccine in broiler breeder chicks. *Proc. AVIAGEN, 12<sup>th</sup> International Symp. Current Prob. In Avian Genet.* Prague, Czech Republic, Pp 138-139.
- Lakshmanan, N., Kaiser, M. G., and Lamont, S. J. 1996. Marek's disease (MD) resistance in MHC-congenic lines from Leghorn and Fayoumi breeds. Abstract P. 52. In: *Proc. 5<sup>th</sup> International Symposium on Marek's Disease*, September 7-11, 1996, East Lansing, MI.
- Lamont, S. J. 1996. Current molecular biologic techniques in selection of poultry. In: *Proc. Duck Research Symposium*, Lake Geneva, WI, June, 1996.
- Lamont, S. J., Lakshmanan, N., and Kaiser, M. G. 1996. Effect of selection for multitrait immune response on innate and vaccinal resistance to Marek's disease. Abstract P. 16. In: *Proc. 5<sup>th</sup> International Symposium on Marek's Disease*, September 7-11, 1996, East Lansing, MI.
- Weigend, S., Mielenz, N., and Lamont, S. J. 1996. Antibody response kinetics to *Mycoplasma gallisepticum* and *Pasteurella multocida* vaccine in chicken lines divergently selected for immunocompetence. *Poultry Sci.* 75(suppl 1):28.
- Lakshmanan, N. and Lamont, S. J. 1995. Major histocompatibility complex (MHC) class II DNA restriction fragment frequency differences among white leghorn lines selected for multitrait immunocompetence. *Poultry Sci.* 74(suppl 1):90.
- Lakshmanan, N., Lamont, S. J., and Gavora, J. S. 1995. Major histocompatibility complex class II DNA restriction fragment frequencies in white leghorn strains selected for Marek's disease (MD) resistance and egg production. *Poultry Sci.* 74(suppl 1):89.
- Lakshmanan, N. and Lamont, S. J. 1995. Associations of major histocompatibility complex class II DNA polymorphisms and Marek's disease resistance in chicken lines selected for multitrait immunocompetence. Abstract P. 31. In: S. M. Hubbard (Ed.) *Program and Abstracts, USDA, ARS, Beltsville Symp. XX: Biotechnology's Role in the Genetic Improvement of Farm Animals*, May 14-17, 1995, Beltsville, MD.
- Lamont, S. J. Mapping and the chicken: expressed sequence tags and genetic regulatory elements. Abstract 8. In: S. M. Hubbard (Ed.) *Program and Abstracts, USDA, ARS, Beltsville Symp. XX: Biotechnology's Role in the Genetic Improvement of Farm Animals*, May 14-17, 1995, Beltsville, MD.
- Tarleton, R., Atterbury, C. L., Slider, S. D., Klandorf, H., Lerner, S. P., and Lamont, S. J. 1994. Associations of the major histocompatibility complex with egg production in broiler breeder hens. *Poultry Sci.* 73(suppl 1):20.

- Chen Y., Carpenter, S., and Lamont, S. J. 1993. Identification of a chicken MHC class II gene promoter. *FASEB (suppl)*:286A.
- Kaiser, M. G., Jacobsen, A. K., Heltemes, L. M., and Lamont, S. J. 1993. Genetic diversity of genes encoding POU-family transcription factors in the chicken. *Poultry Sci.* 72(Suppl. 1):141.
- Kean, R. P. and Lamont, S. J. 1992. Continued selection for multitrail immunocompetence in White Leghorn chickens. *Poultry Sci.* 71 (Supp. 1):9.
- Kean, R. P., Briles, W. E., and Lamont, S. J. 1992. Differences in B-haplotype frequencies after multitrail selection for immunocompetence in egg-laying chickens. *Anim. Genet.* 23(Suppl. 1):52.
- Chen, Y. and Lamont, S. J. 1991. Class I (B-F) major histocompatibility complex (MHC) restriction fragment length polymorphism (RFLP) analysis of thirteen highly inbred chicken lines and lines selected for MHC and antibody response. *Poultry Sci.* 70 (Supp. 1):25.
- Ellis, M. G., Foster, D. N., Nestor, K. E., Bacon, L. D., and Lamont, S. J. 1991. Molecular genotyping of turkey major histocompatibility complex (MHC) genes with a chicken MHC class II probe. *Poultry Sci.* 70 (Supp. 1):40.
- Lamont, S. J. 1991. The major histocompatibility complex in chickens. *J. Cell. Biochem.* 15E (Supp.):196.
- Lamont, S. J., Chen, Y., Aarts, H. J. M., van der Hulst-van Arkel, M. C., Beuving, G., and Leenstra, F. R. 1991. Endogenous viral (Ev) genes in thirteen highly inbred chicken lines and in lines selected for immune-response traits. *Poultry Sci.* 70 (Supp. 1):69.
- Munns, P. L., Lamont, S. J., and Lillehoj, H. S. 1991. CD4, CD8, and IA antigens on peripheral blood lymphocytes in chickens with regressing or progressing RSV-induced tumors. *Anim. Genet.* 22(Suppl. 1):111-112.
- Plotsky, Y., Kaiser, M. G., and Lamont, S. J. 1991. DNA fingerprints in thirteen highly inbred chicken lines. *Poultry Sci.* 70 (Supp. 1):95.
- Shaw, E. M., Otis, J. S., Lamont, S. J., Warner, C. M., Shoffner, R. N., and Guise, K. S.. 1991. Molecular mapping of the major histocompatibility complex (MHC) to nucleolar chromosomes by chromosome microdissection. *Poultry Sci.* 70 (Supp. 1):108.
- Tesene, L. M., Henderson, L. M., Levings, R. L., and Lamont, S. J. 1991. Detection of avian leukosis virus (ALV) sequences by polymerase chain reaction (PCR) amplification. Proc. 40th Western Poultry Disease Conference, Acapulco, Mexico.
- Cheng, S. and Lamont, S. J. 1989. Selection for immunocompetence in chickens. *Poult. Sci.* 68 (Supp.):28.
- Munns, P. L. and Lamont, S. J. 1989. Effects of age and immunization internal on the anamnestic response of chickens to T cell dependent and independent antigens. *Poult. Sci.* 68 (supp.):101.
- Sung, A., Lamont, S., and Warner, C. 1989. Isolation and characterization of cDNA clones for chicken MHC class II molecules. *FASEB Journal* 3:A797.
- Urquhart, M. W. and Lamont, S. J. 1989. T cell dependency of the chicken's primary humoral immune response to Pasteurella multocida and Mycoplasma gallisepticum vaccine antigens. *Poult. Sci.* 68 (supp.):150.
- Fulton, J. E. and Lamont, S. J. 1988. Monoclonal antibody specific for chicken blood group A antigens. Proc. Avian Immunology Meeting. Lelystad, The Netherlands, September 29-30.
- Gerndt, B. M., Lamont, S. J., Xu, Y., Auffray, C., Bourlet, Y., Nordskog, A. W., and Warner, C. M. 1988. Restriction fragment length polymorphism (RFLP) analysis of chicken MHC class II (B-L) genes of fourteen Iowa State University inbred lines. P. 163. In: C. M. Warner, M. F. Rothschild, and S. J. Lamont (eds.): *Molecular Biol. of the Major Histocompatibility Complex of Domestic Animal Species*. Iowa State University Press, Ames, Iowa.

- Lamont, S. J. 1988. The chicken major histocompatibility complex in disease resistance and poultry breeding. *J. Dairy Sci.* 71:202.
- Lamont, S. J., Gerndt, B. M., Warner, C. M., and Bacon, L. D. 1988. Restriction fragment length polymorphism (RFLP) analysis of the major histocompatibility class II  $\beta$  genes of 15I<sub>5</sub>-B congenic chicken lines. P. 164. In: C. M. Warner, M. F. Rothschild, and S. J. Lamont (eds.): *Molecular Biol. of the Major Histocompatibility Complex of Domestic Animal Species*. Iowa State University Press, Ames, Iowa.
- Pitcovski, J., Lamont, S. J., Nordskog, A. W., Gerndt, B. M., and Warner, C. M. 1988. Analysis of the S1 chicken line by hybridization of sperm DNA to an MHC class II probe. P. 164. In: C. M. Warner, M. F. Rothschild, and S. J. Lamont (eds.): *Molecular Biol. of the Major Histocompatibility Complex of Domestic Animal Species*. Iowa State University Press, Ames, Iowa.
- Pitcovski, J., Xu, Y., Peterson, L., Auffray, C., Bourlet, Y., Gerndt, B. M., Nordskog, A. W., Lamont, S. J., and Warner, C. M. 1988. Restriction mapping and partial sequence analysis of three class II major histocompatibility complex genomic clones from the chicken. *FASEB Journal* 2:A890.
- Xu, Y., Pitcovski, J., Peterson, L., Auffray, C., Bourlet, Y., Gerndt, B. M., Nordskog, A. W., Lamont, S. J., and Warner, C. M. 1988. Isolation and characterization of three class II major histocompatibility complex genomic clones from the chicken. P. 168. In: C. M. Warner, M. F. Rothschild, and S. J. Lamont (eds.): *Molecular Biol. of the Major Histocompatibility Complex of Domestic Animal Species*. Iowa State University Press, Ames, Iowa.
- Cheng, S. and Lamont, S. J. 1987. Genetic analysis of antibody response to vaccination in the ISU S1 White Leghorn line of chickens. *Poult. Sci.* 1987 66 (supp.):81.
- Ellis, M. G., Lamont, S. J., and Arp, L. H. 1987. Evidence for the presence of classical and alternative complement activity in turkeys. *Poult. Sci.* 66 (supp.):96.
- Ellis, M. G., Lamont, S. J., and Arp, L. H. 1987. Tentative isolation and characterization of the third component of turkey complement. *Poult. Sci.* 66 (supp.):97.
- Fulton, J. E. and Lamont, S. J. 1987. Genetic control of a cell surface antigen identified by a hemagglutinating monoclonal antibody. *Poult. Sci.* 66 (supp.):102.
- Kaiser, M., Ferket, P. R., and Lamont, S. J. 1987. Effect of age on immunocompetence of turkeys. *Poult. Sci.* 66 (supp.):123.
- Knudtson, K. L. and Lamont, S. J. 1987. Genetic associations of interleukin-2 levels in chickens. *Poult. Sci.* 66 (supp.):127.
- Pitcovski, J., Peterson, L., Lamont, S., and Warner, C. 1987. Identification and characterization of Class I MHC genes from the chicken B complex. *Fed. Proc.* 46:945.
- Ellis, M. G., Arp, L. H., and Lamont, S. J. 1986. Interaction of virulent *Escherichia coli* and serum complement of turkeys. *Proc. 67th Conf. Research Workers Anim. Dis., Chicago, IL, November.*
- Kim, C. D., Lamont, S. J., and Rothschild, M. F. 1986. Genetic associations of body weight and immune response with the major histocompatibility complex in young chicks. *Poult. Sci.* 65 (supp.):71.
- Lillehoj, H. S., Ruff, M. D., Bacon, L. D., Lamont, S. J., and Jeffers, T. K. 1986. Disease susceptibility to coccidiosis in congenic and inbred lines of chickens. *Poult. Sci.* 65 (supp.): 80.
- Chen, J.-Z., Lamont, S. J., Nordskog, A. W. and Warner, C. W. 1985. Construction of a chicken cDNA library. *Poult. Sci.* 64 (supp.):78.
- Cheng, S., Hou, Y.-H., Lamont, S. J., and Nordskog, A. W. 1985. A pedigree analysis of the Iowa State White Leghorn S1 population bred primarily for immunogenetics studies. *Poult. Sci.* 64 (supp.):79.



- Ellis, M. G., Brooks, E. E., Lamont, S. J., and Arp, L. H. 1985. Isolation of a putative third component (C<sup>3</sup>) of turkey complement. Proc. 66th Conf. Research Workers Animal Dis., Chicago, IL. November.
- Lamont, S. J. and Cowan, S. 1985. Genetic control of phagocytic activity in chickens. Poul. Sci. 64 (supp.):132.
- Lamont, S. J., Bolin, C., and Cheville, N. 1985. Genetic resistance to fowl cholera. Poul. Sci. 64 (supp.):132.
- Lamont, S. J., Hou, Y.-H., Young, B. M., and Nordskog, A. W. 1985. Effects of the major histocompatibility B complex on laying performance. Poul. Sci. 64 (supp.):132.
- Pardue, S. L., Smyth, J. R., Jr., Fite, K. V., Boyle, M. L., III, and Lamont, S. J. 1985. Cyclosporin A: influence on the development of integumental and ocular amelanosis in vitiliginous chickens. Poul. Sci. 64 (supp.):159.
- Steadham, E. M., Lamont, S. J., Kujdych, I., Nordskog, A. W. 1985. Genetic control of susceptibility to Marek's disease in the Iowa State S1 White Leghorn line. Poul. Sci. 64 (supp.):185.
- Wathen, L. M., Leblanc, D. C., Lamont, S. J., Nordskog, A. W., and Warner, C. M. 1985. Preliminary characterization of monoclonal antibodies directed against chicken red blood cell and lymphocyte surface molecules. Poul. Sci. 64 (supp.):196.
- Wathen, L. K., Warner, C. M., Lamont, S. J. and Nordskog, A. W. 1985. Preliminary characterization of monoclonal antibodies directed against chicken lymphocyte and red blood cell surface molecules. Proc. Iowa Acad. Sci. 92 (2) supp.
- Auclair, B. W., Smyth, J. R., Jr., Lamont, S. J., and Briles, W. E. 1984. Effect of the major histocompatibility complex on delayed amelanosis and associated retinal dystrophy in the DAM chicken. Poul. Sci. 63 (supp.):57.
- Flanagan, M. P., Nordskog, A. W., and Lamont, S. J. 1984. Genetic control of humoral immune response to heterologous egg white lysozymes in the chicken. Fed. Proc. 43:1820.
- Flanagan, M. P., Nordskog, A. W., and Lamont, S. J. 1984. Specificity of humoral immune response to egg white lysozymes is linked to the B complex. Poul. Sci. 63 (supp.):100.
- Lamont, S. J., Fite, K. V., and Smyth, J. R., Jr. 1984. Cyclosporin A markedly reduces heredity uveitis in the delayed amelanotic (DAM) chicken. Invest. Ophthal. Visual Sci. 25:209, 1984.
- Lamont, S. J., Young, B., Steadham, E., Palmer, D., and Nordskog, A. W. 1984. A serologically-detectable mutational deletion associated with immune response in the chicken. Poul. Sci. 63 (supp.):133.
- Steadham, E. M., Kujdych, I., Lamont, S. J., and Nordskog, A. W. 1984. The B complex effect on susceptibility to Marek's disease. Poul. Sci. 63 (supp.):188-189.
- Wathen, L. K., Lee, W. H. R., Lamont, S. J., Warner, C. W., and Nordskog, A. W. 1984. Isolation and characterization of the fourth component of chicken complement. Poul. Sci. 63 (supp.):202.
- Fite, K. V., Montgomery, N., Bengston, L., Lamont, S. J., and Smyth, J. R., Jr. 1983. Ultrastructural analysis of inherited retinal degeneration in the DAM chicken. Invest. Ophthalmol. Visual Sci. 24:63.
- Jerszyk, M. M., Smyth, J. R., Jr., and Lamont, S. J. 1983. Defective feathering in the DAM (delayed amelanotic) chicken line. Poul. Sci. 62:1442-1443.
- Lamont, S. J., and Smyth, J. R., Jr. 1983. Effects of Cyclosporin A on delayed amelanosis. Midwest Autumn Immunology Conf. Proc., Chicago, IL.
- Lamont, S. J., Smyth, J. R., Jr., and Briles, W. E. 1983. Immune response in the delayed amelanotic (DAM) chicken line. Poul. Sci. 62:1452-1453.
- Lamont, S. J., Smyth, J. R., Jr., and Fite, K. V. 1983. Association of immune response with uveitis and inherited retinal degeneration in the delayed amelanotic (DAM) chicken. Invest. Ophthalmol. Visual Sci. (supp.) 24:63.

Smyth, J. R., Jr., Lamont, S. J., Boissy, R. E., and Boyle, M. L., III. 1983. Spontaneous remelanization of feathers in adult amelanotic DAM line chickens. In: Proceedings of the International Pigment Cell Conference. Giessen, Germany.

Fite, K. V., Montgomery, N., Lamont, S. J., and Smyth, J. R., Jr. 1982. New observations concerning the mechanisms underlying retinal degeneration in the delayed amelanotic (DAM) chicken. Invest. Ophthalmol. Visual Sci. (supp.) 22:249.

Jerszyk, M. M., Lamont, S. J., and Smyth, J. R., Jr. 1982. Autoimmune thyroiditis associated with the DAM (delayed amelanotic) chicken line. Poult. Sci. 61:1484.

Lamont, S. J., Boissy, R. E., and Smyth, J. R., Jr. 1980. Elevated antibody responses in delayed amelanotic chickens. In: Programs and Abstracts of Papers for the Seventeenth National Meeting of the Reticuloendothelial Society, Tampa, Florida.

Lamont, S. J. and Van Alten, P. J. 1979. Characterization of mitogenic response enhancement in recombination cultures of adherence-separated splenic cell subpopulations. J. Reticuloendothel. Soc. 26:23a.

Lamont, S. J. 1978. Interaction of adherent and nonadherent chicken splenic cells in mitogen stimulated cultures. J. Reticuloendothel. Soc. 24:35a, 1978.

Lamont, S. J. and Van Alten, P. J. 1978. Splenic lymphocyte response to mitogens following separation by glass or nylon wool filtration. Fed. Proc. 37:1387.

#### **POPULAR PUBLICATIONS:**

Lamont, S. J. 2004. Genetic approaches to improving health in poultry. Poultry International 43:10-15.

Lamont, S. J. 1988. Biotechnology in poultry breeding. Egg Industry 94:22-23.

Lamont, S. J. 1985-86. Genetic control of immune response and disease resistance. II. Phagocytosis - a first line of defense. Iowa State University Poultry Newsletter. Pp. 4-6, Winter.

Lamont, S. J. 1984. Genetic control of immune response and disease resistance. I. Immune response, genetics, and blood types. Iowa State University Poultry Newsletter 3:2-4, June-July.

#### **REPORTS (WEB-ACCESSIBLE):**

**Animal Industry Reports at:** <http://www.ans.iastate.edu/report/air>

Wang, C., Habier, D., Wolc, A., Garrick, D.J., Fernando, R.L., Lamont, S.J., Dekkers, J.C.M., Kranis, A., Watson, K.A.. Application of genomic selection using an evenly spaced low-density marker panel in broiler chickens. Iowa State University Animal Industry Report, 2013. A.S. Leaflet R2807

Sandford, E.E., Orr, M., Li, X., Zhou, H., Johnson, T.J., Kariyawasam, S., Nolan, L.K., Liu, P., Lamont, S., J. 2012. Gene expression differences in white blood cells after *Escherichia coli* infection in chickens. Iowa State University Animal Industry Report, 2012. A.S. Leaflet R2721

Coble, D., Sandford, E.E., Ji, T., Lamont, S.J. 2012. Impacts of Salmonella Enteritidis infection on liver transcriptome in broilers. Iowa State University Animal Industry Report, 2012. A.S. Leaflet R2722

Balfanz, E., Sandford, E., Kaiser, M.G., and Lamont, S.J. 2011. Differential immunological gene expression after *Escherichia coli* infection in chickens, Iowa State University Animal Industry Report, 2011, A. S. Leaflet-R2618

Ciraci, C., and Lamont, S.J. 2011. The regulatory mechanism of response to CpG-ODN, a pathogen-derived molecule, in chicken macrophages. Iowa State University Animal Industry Report, 2011, A. S. Leaflet-R2617

Wang, C., Habier, D., Garrick, D. J., Fernando, R.L., Lamont, S.J., Dekkers, J.C.M., Kranis, A., Watson, K.A., Avendano, S. 2011. Accuracy of genomic EBV using an evenly spaced, low-density SNP panel in broiler chickens. Iowa State University Animal Industry Report, 2011, A. S. Leaflet-R2620.

- Wolc, A., Stricker, C., Arango, J., Settari, P., Fulton, J.E., O'Sullivan, N.P., Preisinger, R., Habier, D., Fernando, R., Garrick, D.J., Lamont, S.J., Dekkers, J.C.M. 2011. Breeding value prediction for production traits in layers using high-density SNP markers. Iowa State University Animal Industry Report, 2011, A. S. Leaflet-R2619
- Ciraci, C., Tuggle, C. K., Wannemuehler, M.J., Nettleton, D., Lamont, S.J. 2010. Kinetic profile of chicken macrophage immune response upon exposure to *Salmonella*-derived endotoxin. Iowa State University Animal Industry Report, 2010, A.S. Leaflet-R2481
- Coble, D., Redmond, S.B., Hale, B., Lamont, S.J. 2010. The effect of *Salmonella Enteritidis* on immune genes in three different lines of chickens. Iowa State University Animal Industry Report, 2010, A.S. Leaflet-R2482
- Kaiser, M.G., Beach, E., Ciraci, C., Lamont, S.J. 2010. Bacterial lipopolysaccharide and dietary natural source vitamin effects on broiler chick immune response. Iowa State University Animal Industry Report, 2010, A.S. Leaflet-R2480
- Redmond, S.B., Tell, R., Coble, D., Mueller, C., Palic, D., Andreasen, C. B., Lamont, S.J. 2010. Genetic differences in chicken splenic immune gene expression in response to dietary immune modulation. Iowa State University Animal Industry Report, 2010, A.S. Leaflet-R2537
- Sandford, E., Ciraci, C., Abasht, B., Dekkers, J.C.M., Lamont, S.J. 2010. SNPs in region of NF-kappa-B gene associated with expression of immune-related genes. Iowa State University Animal Industry Report, 2010, A.S. Leaflet-R2483
- Beach, E., Abasht, B., Fernando, R., Dekkers, J.C.M., Lamont, S.J., Arango, J., Settari, P., Fulton, J., O'Sullivan, N.P. 2009. Extent and consistency of lineage disequilibrium and identification of DNA markers for production and egg quality traits in commercial layer chicken populations. Iowa State University Animal Industry Report, 2009, A.S. Leaflet R2444
- Ciraci, C., Kaiser, M.G., and Lamont, S.J. 2009. Chicken antibody response to *Salmonella enteritidis* vaccine in advanced intercross lines and parental lines. Iowa State University Animal Industry Report, 2009, A.S. Leaflet R2379
- Redmond, S.B. and Lamont, S.J. 2009. Genetic differences in chicken heterophil mRNA expression in response to in-vitro stimulation with *Salmonella enteritidis*. Iowa State University Animal Industry Report, 2009, A.S. Leaflet R2445
- Abasht, B., Beach, E., Arango, J.A., Settari, P., Fulton, J.E., O'Sullivan, N.P., Fernando, N.P., Dekkers, J.C.M., and Lamont, S.J. 2008. Identification of DNA markers for important production traits in layer lines. Midwest Poultry Research Program Report 2008 (URL: <http://www.mwpoultry.org/ResearchDB.php>)
- Abasht, B., Kaiser, M.G., van der Poel, J. and Lamont, S.J. 2008. Toll-like receptor gene expression in cecum and spleen of chicks challenged with *Salmonella Enterica* Serovar Enteritidis. Iowa State University Animal Industry Report 2008, A.S. Leaflet R2329
- Cheeseman, J.H., and Lamont, S.J. 2008. Gene knock-down in chicken immune cells. Iowa State University Animal Industry Report, 2008, A.S. Leaflet R2328
- Davison P., Kaiser, M.G. and Lamont, S.J. 2008. Genetic diversity of the antiviral Mx gene in 14 chicken lines. Iowa State University Animal Industry Report, 2008, A.S. Leaflet R2330
- Redmond, S.B., and Lamont, S.J. 2008. Effect of dietary beta-glucans on growth performance in developing chickens. Iowa State University Animal Industry Report, 2008, A.S. Leaflet R2331
- Abasht, B., and Lamont, S.J. 2007. Genome-wide association study of fatness in chickens. Iowa State University Animal Industry Report. A.S. Leaflet R2218.
- Cheeseman, J., Levy, N., and Lamont, S.J. 2007. Chemokine mRNA expression in the cecum of chicks infected with *Salmonella enteritidis*. Iowa State University Animal Industry Report A.S. Leaflet R2216
- Hasenstein, J. R. and Lamont, S.J. 2007. Chicken *Gallinacin* gene cluster associated with *Salmonella* colonization in two advanced intercross lines. Iowa State University Animal Industry Report A.S. Leaflet R2215.

Kaiser, M.G., and Lamont, S.J. 2007. Genetically distinct chicken crosses differ in splenic *Salmonella* colonization and cytokine RNA expression. Iowa State University Animal Industry Report A.S. Leaflet R2217.

Hassen, A., Dekkers, J.C.M., Lamont, S.J., Fernando, R. L., Avendano, S., Ralph, J., Koerhuis, A., McKay, J., Hill, W. G. 2007. High-density SNP genotyping analysis of broiler breeding lines. Iowa State University Animal Industry Report, A.S. Leaflet R2219

Lamont, S.J. 2006. Gene expression associated with virus resistance in chickens. Iowa State University Animal Industry Report, A.S. Leaflet R2130.

Lamont, S. J. and Hasenstein, J. 2005. Genes for resistance to Salmonella in poultry. Iowa State University Animal Industry Report, A.S. Leaflet R2017.

Lamont, S.J., Deeb, N., and Zhou, H. 2005. Genes for skeletal strength in poultry. Iowa State University Animal Industry Report, A.S. Leaflet R1935.

Lamont, S.J., and Malek, M. 2004. Genes for resistance to Salmonella in poultry. . Iowa State University Animal Industry Report, A.S. Leaflet R1937.

Lamont, S.J., Dekkers, J.C.M, and McElroy, J. 2004. Genetics of high-value yield in broilers. Iowa State University Animal Industry Report, A.S. Leaflet R1936.

Lamont, S.J., Kaiser, M., and Cheeseman, J. 2004. Genetic line differences in cytokine mRNA expression of peripheral blood leukocytes exposed to *Salmonella enteritidis* in-vitro. Iowa State University Animal Industry Report, A.S. Leaflet R2016.

**OTHER:**

Annual Technical Committee Research Reports of Iowa Station Activities in NC-1170 (formerly NC-168, then NC-1008) and NE-1034 (formerly NE-60, then NE-1016) Regional Research Projects, each year, 1983-present