

ROBERT L. TAYLOR, JR., curriculum vitae

EDUCATION

- Ph. D. *Mississippi State University* (Animal Physiology-Immunology), 1981
Dissertation: Pituitary and testicular activity in male New Hampshire chickens following embryonic exposure to testosterone propionate
Research Assistant, Dept. of Poultry Science (Animal Physiology), 1978 - 1982
- M. S. *Auburn University* (Microbiology), 1978
Thesis: Antibiotic resistance in *Chromobacterium violaceum*
Teaching-Research Assistant, Dept. of Botany and Microbiology, 1976 – 1977
- B. A. *Carson-Newman College*, 1975

PROFESSIONAL EXPERIENCE

West Virginia University, Morgantown, WV

- Professor, Division of Animal and Nutritional Sciences, 2018 – present
- Director and Professor, Division of Animal and Nutritional Sciences, 2014 – 2018
- Co-Director and Professor, School of Agriculture and Food, 2014 – 2018
- Professor, Interdisciplinary Program in Reproductive Physiology, 2014 – present
- Adjunct Professor, Dept. of Microbiology, Immunology and Cell Biology, 2014 – present

University of New Hampshire, Durham, NH

- Professor, Dept. of Biological Sciences, Genetics Program, 2008 – 2014
- Professor, Dept. of Animal and Nutritional Sciences, Genetics Program, 1996 – 2008
- Associate Professor, Dept. of Animal and Nutritional Sciences, Genetics Program, 1990 – 1996
- Assistant Professor, Dept. of Animal and Nutritional Sciences, Genetics Program, 1984 – 1990

Medical College of Virginia, Richmond, VA

- Post-doctoral Fellow, Dept. of Pathology, 1982 - 1984

GRADUATE FACULTY APPOINTMENTS

North Carolina State University Raleigh, NC

- Graduate Faculty Scholar, Dept. of Poultry Science, 2013 – present

Mississippi State University, Starkville, MS

- Graduate Faculty Committee Participant, Dept. of Basic Sciences (CVM), 2013 – present

Northern Illinois University DeKalb, IL

- Graduate Faculty Scholar, Dept. of Biological Sciences, 2013 – 2018

University of Arkansas Fayetteville, AR

- Adjunct Professor, Center of Excellence for Poultry Science, 2004 – 2008

HONORS

West Virginia University Gamma Sigma Delta Senior Faculty Award of Merit 2017
 Poultry Science Association - Committee on Fellows 2016-2021
Poultry Science – journal Editor-in-Chief 2016-present
 World's Poultry Science Association – Nominating Committee 2016
Fellow, Poultry Science Association 2015
 West Virginia Poultry Association – Board of Directors 2014-present
President, World's Poultry Science Association – USA Board of Directors 2013-2015
 Graduate Faculty Scholar, N. C. State University, Raleigh, NC, 2013 – present
 Graduate Faculty Committee Member, Mississippi State University, Starkville, MS 2013–present
 Graduate Faculty Scholar, Northern Illinois University DeKalb, IL, 2013–present
Chair, Poultry Science Association – Publication Strategic Plan committee 2012-2016
 World's Poultry Science Association – USA Board of Directors 2011-2015, 2015-2019
Poultry Science – journal Section Editor- Immunology, Health and Disease 2010-2016
 Madison Who's Who Among Executives and Professionals Member of the Year 2009
 Poultry Science Association - Invited Speaker, Centennial Symposium 2008
 Madison Who's Who Among Executives and Professionals Member of the Year 2008
 Windsor Who's Who 2008
 Madison Who's Who Among Executives and Professionals 2007
 Who's Who Among American Teachers and Educators 2006-2007
Poultry Science – journal Associate Editor- Immunology, Health and Disease 2005-2010
 National Register Who's Who Among Executives and Professionals 2005
 Adjunct Professor, University of Arkansas Center of Excellence for Poultry Science 2004-2008
 ESCOP/ACOP National Leadership Development Program Class 14 2004-2005
 Poultry Science Association - Ancillary Scientists Committee 2004-2006
Chair, Poultry Species Committee National Animal Germplasm Program 2004-2008
 National Animal Germplasm Program Species Coordinating Committee 2004-2008
Co-Chair, Poultry Science Association - Ancillary Scientists Immunology Symposium 2003
 New Hampshire Agricultural Experiment Station Project Review Committee 2000-2005
Co-Chair - Avian Genetic Resources Task Force 1995
 Faculty Fellow - Graduate School 1993-1994
 Poultry Science Association - Ad hoc Committee on *Poultry Science* journal 1990-1992
 University of New Hampshire Summer Faculty Fellowship 1990
 Alpha Zeta 1988-present
Poultry Science – journal Associate Editor-Immunology 1988-1995
 Sigma Xi Chapter Secretary 1988-1990
 St. Edward's School, Richmond, VA - Co-Advisor Division Science Fair Winner 1984
 Southeastern Immunology Conference - Board of Directors 1981-1982
 Gamma Sigma Delta 1981
 Sigma Xi - Associate Member 1979; Member 1983
 Editor, *THE EMBRYO* - Mississippi State University Poultry Science Club publication 1979
 American Society of Zoologists - Best Contributed Paper 1978
 Virginia Chapter of 4-H All Stars - Life Member 1969

ADMINISTRATIVE EXPERIENCENational and Regional

Leader Multistate Project “Genetic Bases for Resistance and Immunity to Avian Diseases” 1984-present
 Project numbers NE-60, NE-1016, NE-1034, NE-1334, NE-1834
Administrative Advisor Technical Committee 2017-present
Secretary Technical Committee 1986-1987, 2009-2010
Chair Technical Committee 1987-1988, 2006-2007, 2010-2011
Chair four consecutive project revision committees 1992, 1997, 2002, 2007
 Host Technical Committee Annual Meeting 1987, 1998, 2018

Poultry Science Association

Committee on Fellows 2016-2021
 Alltech Student Research Manuscript Award Committee 2018-present
Chair Early Achievement Awards Committee 2012-2013
 Developed standardized award criteria
 American Poultry Historical Society Hall of Fame committee 2009-2011
 Early Achievement Award committee 2009-2013
 Ancillary Scientists Symposium Committee 2004-2006
 Recommended procedural changes for symposium to improve operation
 Ad hoc Committee on Poultry Genetic Stocks 2004-2005
Co-Chair Ancillary Scientists Immunology Symposium 2003
General Program Chair Annual Meeting 1996
 Recommended procedural changes to improve scientific program
 Graduate Student Research Manuscript Award Committee 1989-1992
 Research Committee 1985-1988

Poultry Science journal

Editor-in-Chief *Poultry Science* 2016-present

Year	Articles published	3 yr Impact Factor	Citations
2016	341	1.908	15,980
2017	513	2.216	19,149
2018	501	2.027	20,848
2019	776	2.659	25,835
2020	757	3.352	29,138
2021			

Journal Planning Committee 2018-present

Chair Publication Strategic Plan Committee 2012-2016

Recommended operational changes to maintain publication viability

Chair Open Access Committee 2010-2011

Section Editor-Immunology, Health and Disease *Poultry Science* 2010-2016

Associate Editor-Immunology, Health and Disease *Poultry Science* 2005-2010

Ad hoc Committee on *Poultry Science* journal 1990-1992

Associate Editor-Immunology *Poultry Science* 1988-1995

Co-Chair Avian Genetic Resources Task Force, 1995-1999

National Animal Germplasm Program (NAGP)

Chair, Poultry Species Committee 2004-2008

Developed committee operational priorities

Member Poultry Species Committee - 2000-present

Member Species Coordinating Committee 2004-2008

Participant - National Association of State Universities and Land-Grant Colleges (NASULGC)
Leadership Conference 2002

ESCOP/ACOP National Leadership Development Program Class 14 2004-2005

West Virginia University (2014-present)

Office of Lab Animal Resources (OLAR) = search committee for OLAR Director
Reviewed applications, interviewed and evaluated candidates

West Virginia Agricultural Experiment Station
Administrative Advisor NE-1834 Technical Committee 2017-present

University of New Hampshire (1984-2014)

University Genetics Program 1986-2014
Interdepartmental Program for genetics combining expertise from 5 departments
Genetics Executive Committee 1988-1991, 1993, 1995, 1997-2000

Biology Course Executive Committee 1986-1988
Developed new General Biology course for the University
Annual enrollment 500 students
Planned General Biology curriculum
Reviewed General Biology curriculum to improve student learning

Commission on Research and Graduate Education 1990-1991
Reviewed university policies and procedures related to research
Recommended a new indirect cost distribution formula

Commission on Graduate Education 1991-1993
Reviewed university policies and procedures related to graduate education
Recommended distinct, cooperating offices for Graduate Dean and Research Vice President

Faculty Fellow - Graduate School 1993-1994
Surveyed new University of New Hampshire graduate students about recruitment and retention
Participated in other Graduate School operations

New Hampshire Agricultural Experiment Station Project Review Committee 2000-2005
Evaluated NH AES project proposals for competitive funding
Worked to enhance experiment station projects (number and quality)

Institutional Animal Care and Use Committee (IACUC) 2001-2010
Reviewed research animal care protocols
Evaluated policies and procedures for animal maintenance and experimentation
Worked with investigators to insure regulatory compliance

New Hampshire Agricultural Experiment Station (AES) Sabbatical Project – Spring 2004
Interacted with NH AES project leaders
Prepared NH AES Annual Report of Accomplishments
Member, NH AES Research Advisory Committee which advised Dean and Director

University of New Hampshire Faculty Senate 2010-2012
Financial Affairs Committee
Reviewed University financial operations data
Evaluated financial aspects of proposed two college merger
Committee on Organization of Other Entities
Reviewed University financial data on colleges, athletics, other operations

West Virginia University, Division of Animal and Nutritional Sciences (2014-present)

Division Director 2014-2018

Co-Director School of Agriculture and Food 2014-2018

Division Undergraduate Enrollment

Students enrolled in three Division programs
increased 18.2% from 2014-2018 (4.3% annually)

WVU Farm Advisory Council 2014-2017

Advisory Committee to the Dean for all University farm operations

Review of WVU Reymann Memorial Farm, Wardensville, WV 2016

Coordinated external review of activities and facilities at Reymann Memorial Farm

Division Faculty Evaluation

Developed faculty performance evaluation guidelines
Instituted policy limiting full professor promotion evaluations to other full professors

University of New Hampshire, Dept. of Biological Sciences (2008-2014)

Animal Science Curriculum Committee 2010-2014

Developed new Animal Science curriculum to meet student needs

Advisory Committee 2009-2011

Advised Department Chair on curriculum, research and outreach

University of New Hampshire, Dept. of Animal and Nutritional Sciences (1984-2008)

Director University of New Hampshire Poultry Research Farm 1985-2007

Responsible for all activities including farm budget, personnel review, facilities and research

Graduate Program Coordinator and Chair Graduate Education Committee 1990-2001

Overall responsibility for Graduate Program
Developed first Department Graduate Student Handbook
Developed first Department Graduate Student Evaluation
Coordinated applications review, examine computer literacy, assign assistantships
Evaluated graduate student performance as teaching assistants

Program Representatives Committee 1996-2000

Advise Department Chair on curriculum, research and outreach

Joint Department Merger Committee for Medical Laboratory Sciences 2000

Investigated mechanisms and benefits for integration of Medical Laboratory Sciences program

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American Association of Immunologists
 American Poultry Historical Society
 Gamma Sigma Delta
 Poultry Science Association
 Society for Experimental Biology and Medicine
 West Virginia Poultry Association
 World's Poultry Science Association

RESEARCH INTERESTS

Immunogenetics; MHC control of responses to oncogene tumors, infectious brochitis virus, and Marek's disease virus; identifying chicken alloantigen genes and proteins, gene expression in immune responses and immune cell development

GRANTS, West Virginia University (2014-present)

American Association of Immunologists Intersect Fellowship for Computational Scientists and Immunologists, "Characterizing immune cell populations and killer cell immunoglobulin-like receptors (KIRs) role in the reproductive tract of chickens" awarded to Dr. Theros Ng, Western University of the Health Sciences, **Collaborator**. 2022

USDA, NIFA Seed Grant "Establishing the role of immunoglobulin-like receptor-B during viral infection in the chicken" **Co-investigator**. **\$250,000** 2021

USDA, NIFA Seed Grant "Resolving the novel killer cell immunoglobulin-like receptors genes relationship to fertility in chickens" **Co-investigator**. **\$250,000** 2021

USDA NRSP-8 Coordinator funds "Typing single nucleotide polymorphisms to map and identify chicken blood group alloantigens" Co-investigator. \$14,400 2017

USDA NRSP-8 Coordinator funds "Mapping and identifying chicken blood group alloantigens" Co-investigator. \$5,000 2016

Briles Family Foundation "Elwood and Ruth Briles Avian Alloantigen Support Fund" Principal investigator. \$25,000 2016-present

USDA and West Virginia Agricultural Experiment Station NE-1834 "Genetic Bases for Resistance and Immunity to Avian Diseases" Principal investigator. \$4,000 2014-present

GRANTS, University of New Hampshire (1984-2014)

USDA and New Hampshire Agricultural Experiment Station H614 "Genetic Bases for Resistance and Immunity to Avian Diseases" Principal investigator. \$24,000 2013-2016

University of New Hampshire Faculty Development Grant "Applying genetics to improve animal health" Principal investigator. \$1000 2012-2013

USDA and Mississippi Agricultural and Forestry Experiment Station (MAFES) "Characterization of peripheral B-cells in the chicken embryo" Co-investigator. \$10,000 2011-2013

University of New Hampshire Karabelas COLSA Faculty Research Development Grant "Comparative gene expression in chicken embryonic immune tissue from high and low antibody response lines" Principal investigator. \$5,000 2009-2010

USDA and New Hampshire Agricultural Experiment Station H459 "Genetic Bases for Resistance and Immunity to Avian Diseases" Principal investigator. \$50,000 2008-2013

University of New Hampshire Faculty Development Grant "New opportunities in chicken genome research" Principal investigator. \$750 2006

USDA National Research Initiative Competitive Grants Program "Fine mapping Marek's disease resistance genes within the chicken *B* complex." (supplement) Co-investigator. \$10,000 2006-2007

National Cancer Institute "MHC Loci in the control of Marek's lymphoma." Co-investigator. \$200,000 2004-2006

USDA National Research Initiative Competitive Grants Program "Fine mapping Marek's disease resistance genes within the chicken *B* complex." Co-investigator. \$239,000 2003-2005

USDA and New Hampshire Agricultural Experiment Station H459 "Genetic Bases for Resistance and Immunity to Avian Diseases" Principal investigator. \$50,000 2003-2008

USDA and New Hampshire Agricultural Experiment Station A353 "Genetic control of oncogene tumor growth." Principal investigator. \$30,000 1999-2002

Hubbard-ISA, Walpole, NH Research Grant "Relationship between livability and major histocompatibility complex haplotypes in Hubbard breeding stock" Principal investigator. \$10,000 2002-2003

USDA National Research Initiative Competitive Grants Program "Marek's disease virus genes associated with cell-mediated immunity" Co-investigator. \$200,000 2001-2003

USDA National Research Initiative Competitive Grants Program "*Rfp-Y* genes and the response of chickens to infectious disease." Co-investigator. \$200,000 1998-2001

USDA and New Hampshire Agricultural Experiment Station A353 "Genetic Control of *src* Tumor Growth." Principal investigator. \$30,000 1999-2002

USDA and New Hampshire Agricultural Experiment Station H303 "Genetic Bases for Resistance and Immunity to Avian Diseases" Principal investigator. \$60,000 1998-2003

American Cancer Society Institutional Research Grant (University of California-Davis) "Role of ribosomal DNA genotype in tumorigenesis and metastasis." Co-investigator. \$15,000 1996-1997

National Science Foundation "The biological significance of cellular alloantigen systems in captive avian populations." Co-investigator. \$450,000 1996-1999

USDA and New Hampshire Agricultural Experiment Station A353 "Genetic control of *src* tumor growth." Principal investigator. \$30,000 1996-1999

USDA National Research Initiative Competitive Grants Program "The *Rfp-Y* system in resistance of chickens to infectious disease." Co-investigator. \$200,000 1994-1996

USDA and New Hampshire Agricultural Experiment Station H303 "Genetic bases for resistance and immunity to avian diseases." Principal investigator. \$60,000 1993 - 1998

USDA and New Hampshire Agricultural Experiment Station A353 " Genetic complementation in tumor regression." Principal investigator. \$30,000 1993-1996

SmithKline Beecham Animal Health BioResearch, Inc. "Genetics of the Immune Response to *Coccidia* Antigens *In Vivo*." Principal investigator. \$5,000 1991

IGI, Inc. (Vineland Laboratories) "Efficacy of Infectious Bursal Disease Vaccine *In-Vivo*." Principal investigator. \$2,000 1991

University of New Hampshire Faculty Development Grant "New Methods for Assessing Chicken Immune Function." Principal investigator. \$450 1991

USDA and New Hampshire Agricultural Experiment Station A353 "Genetic Complementation in Tumor Regression." Principal investigator. \$30,000 1990-1993

Integrated Genetics - Genetrac Division "Comparison of a DNA Probe vs. Conventional Bacteriology for Identification of Poultry Salmonella" Framingham State College and University of New Hampshire Co-investigator. \$2,000 1988

USDA and New Hampshire Agricultural Experiment Station H303 "Genetic Bases for Resistance and Immunity to Avian Diseases" Principal investigator. \$45,000 1988 - 1993

University of New Hampshire Biotechnology Funds "Humoral and Cellular Responses to Recombinant Coccidia Antigens" Co-investigator. \$2,000 1987

University of New Hampshire Faculty Development Grant "Production of Antisera to Major Histocompatibility (*B*) Complex Antigens" Principal investigator. \$450 1987

USDA Competitive Animal Health Grant "Humoral and Cellular Responses to Recombinant Coccidia Antigens" Co- investigator. \$74,800 1987 - 1988

Hoffman-LaRoche, Inc. "Evaluation of Immune Responses to Recombinant Coccidia Antigens" Co-investigator. \$3,500 1986

USDA and New Hampshire Agricultural Experiment Station H303 "Genetic Bases for Resistance to Avian Diseases" Principal investigator. \$60,000 1985 - 1988

Hoffman-LaRoche, Inc. "Evaluation of Immune Response to Coccidia Antigens *In Vivo*" Co-investigator. \$23,500 1984

University of New Hampshire Research Initiation Fund Principal investigator. \$5,000 1984

INVITED LECTURES, West Virginia University (2014-present)

West Virginia University, Division of Animal & Nutritional Sciences, Morgantown, WV 2021

West Virginia University, Dept. of Microbiology, Immunology & Cell Biology, Morgantown, WV 2019

University of Arkansas, Center of Excellence for Poultry Science, Fayetteville, AR, 2019

North Carolina State University, Prestage Department of Poultry Science, Raleigh, NC, 2019

Clemson University, College of Agriculture, Forestry and Life Sciences, Clemson, SC, 2018

The National Institute for Occupational Safety and Health (NIOSH), Morgantown, WV 2018

National Institute of Food and Agriculture, NIFA Listens Forum, Greenbelt, MD 2017

Virginia Polytechnic Institute, Department of Animal & Poultry Science, Blacksburg, VA 2017

Atlantic Veterinary College, Department of Pathology & Microbiology, Charlottetown, PEI 2017

Poultry Breeder's Roundtable, Program Speaker, St. Louis, MO, 2017

University of Wisconsin, Department of Animal Science, Madison, WI 2016

AMENA, Asociación Mexicana de Especialistas en Nutrición Animal, Puerto Vallarta, Mexico 2015

University of California, Davis, Department of Animal Science, Davis, CA, 2015

West Virginia University, Animal & Nutritional Sciences Faculty Think Tank, Morgantown, WV 2014

West Virginia University, Dept. of Microbiology, Immunology & Cell Biology, Morgantown, WV 2014

Northern Illinois University, Department of Biological Sciences, DeKalb, IL 2014

West Virginia University, Division of Animal & Nutritional Sciences, Morgantown, WV 2014

INVITED LECTURES, University of New Hampshire (1984-2014)

North Carolina State University, Department of Poultry Science, Raleigh, NC, 2013
West Virginia University, Davis-Michael Lecture, Division of Animal & Nutritional Sciences, Morgantown, WV 2012
Mississippi State University, Department of Poultry Science, Starkville, MS 2011
Wageningen Agricultural University, Adaptation Physiology Group, Wageningen, Netherlands 2010
Poultry Science Association, Genetics Session, Raleigh, NC, 2009
USDA-CSREES, Competitive Programs Unit, Washington, DC, 2009
Tennessee Technological University, Division of Agriculture, Cookeville, TN 2009
Poultry Science Association, Centennial Symposium, Niagara Falls, ON 2008
University of Vermont, Department of Animal Science, Burlington, VT 2008
University of New Hampshire, Genetics Seminar, Durham, NH, 2007
University of Wisconsin, Research Animal Resource Center, Madison, WI 2007
Texas A&M University, Department of Poultry Science, College Station, TX 2007
North Carolina State University, Department of Poultry Science, Raleigh, NC, 2007
University of Maryland, Department of Animal & Avian Sciences, College Park, MD 2007
University of Florida, Department of Animal Sciences, Gainesville, FL 2006
Clemson University, Department of Animal & Veterinary Sciences, Clemson, SC, 2006
Poultry Science Association, Ancillary Scientists Symposium, Madison, WI 2003
University of Arkansas, College of Agriculture, Food & Life Sciences, Fayetteville, AR, 2002
North Carolina State University, Department of Poultry Science, Raleigh, NC, 2001
Hubbard-ISA, Inc., Immunogenetics Seminar, Walpole, NH, 2001
University of Arkansas, Department of Poultry Science, Fayetteville, AR, 1999
New England Turkey Growers Conference, Program Speaker, Sturbridge, MA, 1998
University of New Hampshire, Department of Animal & Nutritional Sciences, Durham, NH, 1995
North Carolina State University, Department of Poultry Science, Raleigh, NC, 1994
University of Massachusetts, Department of Veterinary & Animal Sciences, Amherst, MA, 1992
Embrex, Inc., Immunology Seminar, Raleigh, NC, 1992
Dartmouth Medical School, Department of Physiology, Hanover, NH, 1991
University of New Hampshire, Genetics Seminar, Durham, NH, 1991
University of New Hampshire, Department of Animal & Nutritional Sciences, Durham, NH, 1991
University of New Hampshire, Biotechnology Seminar for High School Teachers, Durham, NH, 1991
Transgenic Sciences, Inc., Immunology Seminar, Worcester, MA, 1988
National Breeder's Roundtable, Program Speaker, St. Louis, MO, 1988
Framingham State College, Department of Biology, Framingham, MA, 1988
Central Michigan University, Department of Biology, Mt. Pleasant, MI, 1987
University of New Hampshire, Genetics Seminar, Durham, NH, 1987
Hoffman-LaRoche, Inc., Immunology Seminar, Nutley, NJ, 1986
University of New Hampshire, Genetics Seminar, Durham, NH, 1986
University of New Hampshire, Department of Animal & Nutritional Sciences, Durham, NH, 1986
Cornell University, Department of Poultry & Avian Sciences, Ithaca, NY, 1985
University of New Hampshire, Department of Microbiology, Durham, NH, 1984
University of New Hampshire, Department of Animal & Nutritional Sciences, Durham, NH, 1984
USDA Poultry Research Lab, Immunology Seminar, East Lansing, MI, 1984
Los Alamos National Lab, Department of Pathology, Los Alamos, NM, 1984
Medical College of Virginia, Allergy/Immunology Seminar, Richmond, VA, 1983
Medical College of Virginia, Department of Pathology, Richmond, VA, 1982

TEACHING EXPERIENCE, West Virginia University (2014-present)

AVS 251 Principles of Animal Science Poultry Laboratory (fall) 2020, 2021
 AVS 696 Graduate Seminar (spring, fall) 2019-present
 WVU Crellin Elementary School, Oakland, MD, Poultry Project lecture 2019

TEACHING EXPERIENCE, University of New Hampshire (1984-2014)

ANSC 612 Genetics of Domestic Animals (fall) 2005-2013
 ANSC 822 Immunogenetics (spring) 1998
 ANSC 900 Topics in Animal and Nutritional Sciences 1998
 ANSC 913 Contemporary Topics in Immunobiology (alternate fall)
 ANSC 911 Lipids and Biological Membranes 1992 (co-taught)
 ANSC 998 Animal Science Seminar 1987-1989
 BIOL 411 Principles of Biology I 1987-1995
 GEN 706 Human Genetics 1995 (co-taught), 1997, 1999-2014
 GEN 998 Genetics Seminar 1989-1990, 1992, 2000 fall
 INCO 790 Independent Study: Lab techniques (honors) 2011
 MICR 705 Immunology 1996, 2002
 ZOOL 401 Human Biology 2011-2014

Guest Lectures

ANSC 401 Animals and Society 1985-1994, 1996-2012
 ANSC 556 Poultry Management 1986
 ANSC 610 Feeds and Feeding 1985-1988
 ANSC 702 Experimental Endocrinology 1987
 ANSC 724 Reproductive Management and Artificial Insemination 1989-2007
 ANSC 798 Contemporary Topics in Biomedical Science and Nutrition 1986
 ANSC 901 Introduction to Research 1994-2012
 ANSC --- Science Short Course for High School Students 1985, 1986
 BIOL 604 Principles of Genetics 1988
 GEN 706 Genetics Laboratory 1985-1987
 INCO 404 Biotechnology: Potentials and Hazards (honors) 1986-1988
 MICR 806 Advanced Immunology 1989
 PBIO 876 Radiation Biology 1991
 UNH Biotechnology Workshop for High School Teachers 1991
 IMM 840 Immunogenetics North Carolina State University 1994
 IMM 757 Avian Immunology North Carolina State University 2001

GRADUATE MENTOR, West Virginia University (2014-present)**Ph.D.**

Brandi Sparling (advised with Y. Drechsler, Western University) presently enrolled
Poultry Science Association (PSA) Foundation Endowed Cobb-Vantress PhD Fellowship

GRADUATE COMMITTEES, West Virginia University (2014-present)**M. S.**

Marina Berry (non-thesis) 2018
 Danielle Fink (non-thesis) 2018
 Molly Legg (non-thesis) 2018
 Frances A. Reed (non-thesis) 2018
 Finley Wiles (non-thesis) 2018
 Kolby Foltz 2016
 Michelle McGinley 2016

Ph.D.

Shelly Nolin (North Carolina State University) presently enrolled
 Nikhil Nuthalapati (Mississippi State University) 2018
 John Boney 2017
 Brian G. Glover 2017
 Renee Kopulos (Northern Illinois University) 2016
 Jessica Jacobs 2016
 Ashley M. Evans 2015

GRADUATE MENTOR, University of New Hampshire (1984-2014)**M. S.**

Nicole Wilkinson 2006

Thesis: MHC (*B*) complex recombinant immune responses in the chicken

Elizabeth S. Schulten 2003

Thesis: Immune responses in six recombinant lines congenic for the major histocompatibility (*B*) complex

Graduate Summer Fellowship Recipient

PSA Graduate Student Certificate of Excellence

Christina Mesrobian (Genetics) 2002

Thesis: The effect of *Rfp-Y* haplotype on immune response in *Gallus domesticus*

Graduate Summer Fellowship Recipient

Christine V. Hoogasian 2001

Thesis: Analysis of matrix metalloproteinases-2, 9, and 13 in Rous sarcoma virus-induced tumors in *B2B2* and *B5B5* congenic chickens

Heather L. Senseney 1999

Thesis: B complex effects on Rous sarcoma tumor outcome in Line UCD 003 X Line UCD 001 chickens

Jordan Karagiannides (Genetics) 1997

Thesis: Immunity induced by a *v-src* DNA construct in 6.*B* congenic chickens

Lynda A. Caron 1996

Thesis: Resistance, susceptibility, and immunity to *Eimeria tenella* in UCD *B*-complex congenic lines of chickens

Cassandra L. Ash 1995

Thesis: Tumor growth, metastasis and immune protection by *src* oncogene constructs
Graduate Summer Fellowship Recipient

Keith T. LePage (Genetics) 1994

Thesis: Effects of major histocompatibility (*B*) complex dosage on a T cell dependent antibody response in an aneuploid line of chickens

Jacqueline K. Cieszynski 1994

Thesis: The role of calcium in interleukin 1 (IL-1) production by the MQ-NCSU cell line

Christine J. Bombara 1990

Thesis: Signal transduction events and major histocompatibility *B* complex effects on avian interleukin 1 production

Nicholas W. Lukacs 1988

Thesis: Response of major histocompatibility (*B*) complex haplotypes *B22*, *B26* and *B30* to Rous sarcomas and the role of endogenous lectins in avian *Eimeria* parasites
University of New Hampshire CURF Grant Recipient

Ph.D.

Zdravka O. Medarova (Genetics) 2002

Dissertation: The effects of erythrocyte alloantigen *L* on the avian immune response
PSA Graduate Student Certificate of Excellence

Keith T. LePage (Genetics) 1998

Dissertation: Non-major histocompatibility (*B*) complex effects on Rous sarcomas and *v-src*-induced tumors
PSA Graduate Student Certificate of Excellence

GRADUATE COMMITTEES, University of New Hampshire (1984-2014)

M. S.

Suzanne Pearlman 2011

Angelic DeButts (Natural Resources) 2010

Patrick Tate (Natural Resources) 2007

Martha L. Gilman 2005

Andrew Timmins (Natural Resources) 2003

Janet L. Anderson 2003

Jason Hamel (Natural Resources) 2002

Roger Coup (Natural Resources) 1996

Scott Brodeur (Biochemistry) 1992

Melissa M. Chechowitz 1990

Kirsten L. Quist 1990

Robert A. Clare 1985

Ph.D.

Janet Anderson 2007

Mark Chapman (University of Arkansas) 2007

Yong Li Bai (Biochemistry and Molecular Biology) 2000

Robert A. Clare 1988

Shari J. Litch 1988

UNDERGRADUATE MENTOR, West Virginia University (2014-present)

Megan Alderman - Research Apprenticeship Program (RAP) 2019

UNDERGRADUATE MENTOR, University of New Hampshire (1984-2014)

Tyler Burks - Research Experience and Apprenticeship Program (REAP) 2009

Undergraduate Research Experience 2009

Undergraduate Research Opportunities Program 2010

Independent Research 2010

International Research Opportunities Program 2011

Senior Thesis 2012

Meghen Schulte - Undergraduate Research Experience 2007

Andrea Plante - Undergraduate Research Experience 2006

Heather Farrell - Undergraduate Research Experience 2005

Sarah Greeley - Undergraduate Research Experience 2003-2004

Hubbard Undergraduate Research Fellowship 2004

Michelle Rodrigue - Undergraduate Research Experience 2002-2003

Marieke Martin - Undergraduate Research Experience 2002

Tanya Tupick - Summer Undergraduate Research Fellowship 2000

Hubbard Undergraduate Research Fellowship 2000

Biology Honors Thesis 2000

Undergraduate Research Opportunities Program 2001

Jannine Stempel - Undergraduate Research 1998

Bryan Wentzel - Hubbard Undergraduate Research Fellowship 1995

Michael Dix - Hubbard Undergraduate Research Fellowship 1991

Eugene White - Undergraduate Research Opportunities Program 1990

Pamela Ray - Hubbard Undergraduate Research Fellowship 1989

Sue Vincent - Hubbard Undergraduate Research Fellowship 1986

UNDERGRADUATES ASSISTED, University of New Hampshire (1984-2014)

Maura Keeley – Senior Thesis (Biochemistry) 2009

Chris Connors – Senior Thesis (Biochemistry) 2008

Undergraduate Research 2008

Gwen Stewart - Undergraduate Research Opportunities Program 2006

UNIVERSITY SERVICE**National and Regional****Leader** Multistate Project “Genetic Bases for Resistance and Immunity to Avian Diseases”

Project Technical Committee (current NE-1834) 1984-present

Project numbers NE-60, NE-1016, NE-1034, NE-1334, NE-1834

Administrative Advisor Technical Committee 2017-present**Chair** NE-1016 Project Revision Committee 2006-2007**Chair** NE-60 Project Revision Committee 2001-2002**Chair** NE-60 Project Revision Committee 1996-1997**Chair** National Research Support Project Committee 1991-1992**Chair** NE-60 Project Revision Committee 1991-1992**Chair** NE-60, NE-1016 Technical Committee 1987-1988, 2006-2007, 2010-2011

Host NE-60 Technical Committee Annual Meeting 1987, 1998

Member NE-60 Project Revision Committee 1986-1987

Secretary NE-60 Technical Committee 1986-1987, 2009-2010**Poultry Science Association (PSA)**

Alltech Student Research Manuscript Award Committee 2018-present

Committee on Fellows 2016-2021

Fellow 2015**Chair** Early Achievement Awards committee 2011-2012

American Poultry Historical Society Hall of Fame committee 2009-2011

Early Achievement Award committee 2009-2013

Ancillary Scientists Committee 2004-2006

Ad hoc Committee on Poultry Genetic Stocks 2004-2005

Graduate Student Research Manuscript Award Committee 1989-1992

Research Committee 1985-1988

Poultry Science Association (PSA) Annual Meeting**Presenter** PSA Fellow Awards San Antonio, TX 2018**Presenter** PSA Fellow Awards Orlando, FL 2017**Co-Chair** Publications Workshop Orlando, FL 2017**Co-Chair** Landmark Contributions Symposium Niagara Falls, Ontario 2008**Chair** Joint Program Committee-Immunology San Antonio, TX 2007**Chair** Ancillary Scientists Symposium Session Edmonton, Alberta, 2006**Chair** Program Committee-Immunology St. Louis, MO 2004**Co-Chair** Ancillary Scientists Symposium Madison, WI 2003**Chair** Program Committee Louisville, KY 1996**Chair** Immunology Session Edmonton, Alberta 1995**Co-Chair** Avian Immunology Symposium Session East Lansing, MI 1993**Co-Chair** Avian Immunology Mini-Symposium Fayetteville, AR 1992**Chair** Program Committee-Immunology Baton Rouge, LA 1988**Chair** Immunology Session Corvallis, OR 1987**Organizer** Avian Immunology Workshop Raleigh, NC 1986

Poultry Science journal**Editor-in-Chief** *Poultry Science* 2016-present

Year	Articles published	3 yr Impact Factor	Citations
2016	341	1.908	15,980
2017	513	2.216	19,149
2018	501	2.027	20,848
2019	776	2.659	25,835
2020	757	3.352	29,138
2021			

Journal Planning Committee 2018-present

Chair Publication Strategic Plan Committee 2012-2016**Chair** Open Access Committee 2010-2011Section Editor-Immunology, Health and Disease *Poultry Science* 2010-2016Associate Editor-Immunology, Health and Disease *Poultry Science* 2005-2010Ad hoc Committee on *Poultry Science* journal 1990-1992Associate Editor-Immunology *Poultry Science* 1988-1995

Evaluator Graduate Student Presentations

Denver, CO 2010

Niagara Falls, ON 2008

St, Louis, MO 2004

Indianapolis, IN 2001

Montreal, PQ 2000

Fayetteville, AR 1999

Starkville, MS 1994

East Lansing, MI 1993

Blacksburg, VA 1990

Madison, WI 1989

Corvallis, OR 1987

World's Poultry Science Association

USA Branch Board of Directors 2011-2015, 2015-2019

President, USA Branch Board of Directors 2013-2015**Chair**, Cliff Carpenter Essay Award 2011-2012

National Animal Germplasm Program Poultry Species Committee

Member, Species Coordinating Committee, 2004-2008

Chair, Poultry Species Committee, 2004-2008

Member, Poultry Species Committee, 2000-present

External Reviewer for Faculty Tenure and/or Promotion

USDA-ARS Personnel Promotion Review Panel, 2021

Kuwait Institute of Scientific Research (KISR), 2017

Volcani Center, Agricultural Research Organization, Israel 2013

Virginia Polytechnic Institute 2010, 2015, 2016

North Carolina State University 2008 (2), 2014

Quaid-I-Azam University, Pakistan, 2004

University of Arkansas 2003

King Saud University, Saudi Arabia 2002, 2013

Texas A&M University 2002

Pennsylvania State University 1993

External Reviewer for Doctoral Candidates

University of Agriculture, Faisalabad, Pakistan

S. Ahmad, *Poultry Science*, 2009M. I. Anwar, *Veterinary Parasitology*, 2008H. Masood, *Poultry Science*, 2007

Quaid-I-Azam University, Islamabad, Pakistan, 2004

Grant Referee

Wellcome Trust Competitive Research Grant 2009
University of Maryland AES Competitive Research Grant 2007, 2008
USDA ARS Research Project Plan 2001
Binational Agricultural Research and Development Fund (BARD) 1994, 1999
North Carolina Biotechnology Institute Research Grants 1994
USDA Competitive Research Grants 1989-2014
Research Council (Canada) Strategic Grants 1986

Journal Referee

Animal Science Image Gallery 2014
Animal 2009, 2010
American Journal of Physiology 2009
Parasitology 2006
Journal of Animal Science 2006, 2008
USDA ARS Avian Disease and Oncology Lab, 2004
Faculty of Applied Biology, Hiroshima University, Japan 1994, 1995, 1998
Immunogenetics 1994
Center for Food and Animal Research, Agriculture Canada 1994
Avian Pathology 1992
Developmental and Comparative Immunology 1991, 2012
Toxicology 1990
Poultry and Avian Biology Reviews 1990, 1992, 1998
Journal of Heredity 1988, 1989, 1994, 1996, 2001

Reviewer Journal Proposal CRC Press, Boca Raton, FL

Critical Reviews in Poultry Biology 1986

Co-Chair Avian Genetic Resources Task Force, 1995-1999

Chair New England Poultry Health Conference Session 1997

Participant - National Association of State Universities and Land-Grant Colleges (NASULGC)
Leadership Conference 2002

ES COP/ACOP National Leadership Development Program (Class 14) 2004-2005

University - West Virginia University 2014-present

Office of Lab Animal Resources (OLAR) = Director search committee 2016

University - University of New Hampshire 1984-2014

Faculty Senate 2010-2012

Financial Affairs Committee

Chair Financial Oversight Committee 2011-2012

Graduate School Dissertation Fellowship Committee 2005-2008

Institutional Animal Care and Use Committee (IACUC) 2001-2010

COLSA/Genetics Committee 1995

Biology Executive Committee 1994-1995

Faculty Fellow - Graduate School 1993-1994

Commission on Graduate Education 1991-1993

Commission on Research and Graduate Education 1990-1991

Chair Research Council Review Panel 1990-1991

Research Council 1989-1992

Molecular, Cellular and Developmental Biology Subcommittee 1988-1989

Genetics Executive Committee 1988-1991, 1993, 1995, 1997-2000

Sigma Xi Chapter Secretary 1988-1990

Biology Course Development 1986-1987

University of New Hampshire Genetics Program 1986-2014

College - West Virginia University 2014-present

College Structure Committee 2021-2022

Gamma Sigma Delta New Member Committee 2021-2022

Administrative Team 2014-2018

WVU Farm Advisory Council 2014-2017

Review of WVU Reymann Memorial Farm, Wardensville, WV 2016

College - University of New Hampshire 1984-2014

COLSA Academic Affairs Committee 2006

New Hampshire Agricultural Experiment Station Project Review Committee 2000-2005

New Hampshire Agricultural Experiment Station Research Advisory Committee 2000-2002

Faculty Search Committee – Hubbard Brothers Chair in Genomics 1999-2001

COLSA Information Technology Committee 1997-2014

Academic Affairs Committee 1988-1989

Alpha Zeta Faculty Advisor 1986-1990

Scholarship Committee 1986-1988

FFA Interscholastic Contest 1985-1987

Division of Animal & Nutritional Sciences - West Virginia University 2014-present

Chair, Ad hoc Seminar Committee, 2020

Chair, Physiology Lab Reentry Plan Committee, 2020

Promotion and Tenure Committee, secondary alternate 2019-2020

Promotion and Tenure Committee, primary alternate 2018-2019

Veterinary Admission Mock Interviews – Davis-Michael Scholars Program 2015-present

Department of Biological Sciences, University of New Hampshire 2008-2014

Graduate Coordinating Committee 2014

By-Laws Revision 2011

Animal Science Curriculum Revision 2011

Judge, NESA Student Presentations 2011

Liaison, Hamel Center for Undergraduate Research 2010-2014

Advisory Committee 2009-2011

Seminar Planning Committee 2008-2009

Department of Animal & Nutritional Sciences, University of New Hampshire 1984-2008

Memorial Committee for Dr. Richard Strout 2001-2002

Joint Merger Committee for Medical Laboratory Sciences 2000

Program Representatives Committee 1996-1999

Faculty Search Committee - Cellular Physiologist 1996

New England Poultry Health Conference Planning Committee 1992-1999

Chair Graduate Education Committee 1991-2001

Retirement Reception Committee - Dr. Richard Strout 1990

Promotion and Tenure Committee 1990-2007

Computer Coordinator 1990-2000

Graduate Program Coordinator 1990-2001

Advisory Committee 1990-1996

Faculty Search Committee - Reproductive Physiologist 1988

Liaison - Undergraduate Research Opportunities Program 1985-1998

Coordinator Animal Science Seminar 1987-1989

Retirement Reception Committee - Tom Danko 1987

Undesignated Gifts Committee Computer Grant 1986

Chair Faculty-Staff Dinner 1986

Computer-Aided Instruction Grant 1986

Faculty Search Committee - Reproductive Physiologist 1985

Examiner Graduate Student Computer Literacy 1985-2002

NH Poultry Health Conference Planning Committee 1985-1989

Summer Picnic 1984, 1985

Christmas Party 1984, 1985

Coordinator University of New Hampshire Poultry Research Farm 1984-2007

Host for Visiting Scientists, University of New Hampshire

Dr. Michael S. Halpern

The Wistar Institute of Anatomy and Biology

Sabbatical Research June 1993 - Sept. 1993

Dr. Fred M. McCorkle

Department of Biology, Central Michigan University

Faculty Summer Research Fellowship May - June 1986

Visiting Research Appointment June - July 1987

Special Research Fellowship June - July 1988

CMU Research Professorship January - May 1989

Dr. Paul Cotter

Department of Biology, Framingham (MA) State College

Sabbatical Research Sept. 1986 - Aug. 1987

PUBLICATIONS

ORCID iD = 0000-0002-6215-7180 <http://orcid.org/0000-0002-6215-7180>

Google Scholar = <https://scholar.google.com/citations?user=EzMXsOAAAAAJ&hl=en&oi=ao>

Publications	Number	Definition
Referred	123	
Technical reports	45	
Abstracts	126	
sequences	82	nucleotide
sequences	2823	expressed sequence tag (EST)
Citations	2267	
h-index	27	h # papers cited $\geq h$ times
i10-index	58	# papers cited ≥ 10 times
g-index	44	total citations for top g papers $\geq g^2$

* denotes graduate advisee

Zhang, J., R. M. Goto, C. F. Honaker, P. B. Siegel, **R. L. Taylor, Jr.**, H. K. Parmentier, and M. M. Miller. 2022. Association of MHCY genotypes in lines of chickens divergently selected for high or low antibody response to sheep red blood cells. resubmit Poul. Sci. 101:101621 <https://doi.org/10.1016/j.psj.2021.101621>

Zhang, J., R. M. Goto, A. Psifidi, M. P. Stevens, **R. L. Taylor, Jr.**, and M. M. Miller. 2022. Research Note: MHCY haplotype and Campylobacter jejuni colonization in a (Line N x Line 61) x Line N backcross population. Poul. Sci. 101:101654 <https://doi.org/10.1016/j.psj.2021.101654>

Felfoldi, B., H. Wang, N. Nuthalapati, **R. L. Taylor, Jr.**, J. D. Evans, S. L. Branton, and G. T. Pharr. 2021. Expression of chicken leukocyte cell-derived chemotaxin 2 in the embryonic bursa of Fabricius. Int. J. Poul. Sci. 20: 43-47 <https://doi.org/10.3923/ijps.2021.43.47>

Nuthalapati, N., T. A. Burks, **R. L. Taylor, Jr.**, P. B. Siegel, and G. T. Pharr. 2021. Protein tyrosine kinase gene expression profiles in the embryonic bursa of Fabricius of chicken lines selected for high and low antibody responses. Int. J. Poul. Sci. 20:173-178 <https://doi.org/10.3923/ijps.2021.173.178>

Taylor, R. L., Jr. 2021. The 100 most cited papers from Poultry Science's centennial. Poul. Sci. 100:101256 <https://doi.org/10.1016/j.psj.2021.101256>
<https://www.sciencedirect.com/journal/poultry-science/special-issue/10HJB0LSV24>

Taylor, R. L., Jr. and D. Jones. 2021. A century of progress 1921-2021. Poul. Sci. 100:101073 <https://doi.org/10.1016/j.psj.2021.101073>

*Wilkinson, N. G., R. T. Kopulos, L. M. Yates, W. E. Briles, and **R. L. Taylor, Jr.** 2021. Research Note: Rous sarcoma growth differs among congenic lines containing major histocompatibility (B) complex recombinants. Poul. Sci. 100:101335 <https://doi.org/10.1016/j.psj.2021.101335>

Taylor, R. L., Jr. 2020. A Year of Change. Poul. Sci. 99:6291-6292 <https://doi.org/10.1016/j.psj.2020.09.018>

*Wilkinson, N. G., R. T. Kopulos, L. M. Yates, W. E. Briles, and **R. L. Taylor, Jr.** 2020. Major histocompatibility (B) complex recombinant R13 antibody response against bovine red blood cells. *Poult. Sci.* 99:4804-4808 <https://doi.org/10.1016/j.psj.2020.06.069>

Council for Agricultural Science and Technology (CAST) [Long., J. H. Blackburn, A. Martin, F. Silversides, **R. L. Taylor, Jr.** and C. Youngs]. 2019. Protecting food animal gene pools for future generations—A paper in the series on The Need for Agricultural Innovation to Sustainably Feed the World by 2050. Issue Paper 65. CAST, Ames, Iowa. <https://www.cast-science.org/publication/protecting-food-animal-gene-pools-for-future-generations/>

Nuthalapati, N., J. D. Evans, **R. L. Taylor, Jr.**, S. L. Branton, B. Nanduri, and G. T. Pharr. 2019. Transcriptomic analysis of early B-cell development in the chicken embryo. *Poult. Sci.* 98:5342-5354 <https://doi.org/10.3382/ps/pez354> published online: 06/25/19

Xu, L., Y. He, Y. Ding, G. E. Liu, H. Zhang, H. H. Cheng, **R. L. Taylor, Jr.**, and J. Song. 2018. Genome-wide assessment of inbred chicken lines indicates genomic signatures of resistance to Marek's Disease. *J. Anim. Sci. Biotech.* 9:65-75 doi 10.1186/s40104-018-0281 published online: 09/13/18)

Taylor, R. L., Jr. 2018. Nunc Dimitis – Walter M. Collins. *Poult. Sci.* 97:3005 doi.org/10.3382/ps/pey169

Swaggerty, C. L., I. Y. Pevzner, **R. L. Taylor, Jr.** C. M. Ashwell, R. J. Arsenault, and M. H. Kogut. 2017. Selection of broilers for increased innate immune markers: Past strategies and looking ahead. Pages 20-36 *In: Proc. 66th National Breeder's Roundtable*, P. Settar, (ed.), Poultry Breeders of America, U. S. Poultry and Egg Association, Tucker, GA

Taylor, R. L., Jr. 2017. Unscrambling chickens' genetic control of oncogene tumor outcome. Pages 5-12 *In: Proc. 66th National Breeder's Roundtable*, P. Settar, (ed.), Poultry Breeders of America, U. S. Poultry and Egg Association, Tucker, GA

Taylor, R. L., Jr. 2017. Renew the priority for manuscript review. *Poult. Sci.* 96:4133 doi 10.3382/ps/pex267

Miller, M. M., and **R. L. Taylor, Jr.** 2016. Brief review of the chicken major histocompatibility complex – the genes, their distribution on chromosome 16 and their contribution to disease resistance. *Poult. Sci.* 95:375-392 doi:10.3382/ps/pev379 (review)

Taylor, R. L., Jr. 2016. Letter to the Editor – A publication experiment. *Poult. Sci.* 95:227 doi:10.3382/ps/pev451

Taylor, R. L., Jr. 2016. Nunc Dimitis - W. Elwood Briles. *Poult. Sci.* 95:2477 doi:10.3382/ps/pew176

Taylor, R. L., Jr., Z. Medarova, and W. E. Briles. 2016. Immune effects of chicken non-Mhc alloantigens. *Poult. Sci.* 95:447-457 doi:10.3382/ps/pev331 (review)

Taylor, R. L., Jr. 2015. Letter to the Editor – An incomplete story told by a single number. *Poult. Sci.* 94:1995-1996 doi:10.3382/ps/pev221

Taylor, R. L., Jr. 2015. The future of poultry science research: Challenges as opportunities. AMENA, Asociación Mexicana de Especialistas en Nutrición Animal, Puerto Vallarta, Mexico http://www.poultryscience.org/2015_AMENA_Symposium.asp

Weathers, B., S. L. Branton, R. Jacob, **R. L. Taylor, Jr.**, E. D. Peebles, and G. T. Pharr. 2015. Expression of the ephrin receptor B2 in the embryonic chicken bursa of Fabricius. *Int. J. Poult. Sci.* 14:485-490

Anderson, J. L., M. C. Keeley, S. C. Smith, E. C. Smith, and **R. L. Taylor, Jr.** 2014. Rosiglitazone modulates pigeon atherosclerotic lipid accumulation and gene expression *in vitro*. *Poult. Sci.* 93:1368-1374 doi: 10.3382/ps.2013-03840

Anderson, J. L., S. C. Smith and **R. L. Taylor, Jr.** 2014. The pigeon (*Columba livia*) model of spontaneous atherosclerosis. (review) *Poult. Sci.* 93:2691-2699 doi: 10.3382/ps.2014-0428

*Burks, T. A. and **R. L. Taylor, Jr.** 2014. Genetic control of Rous sarcoma virus-induced tumor growth in chickens: Role of the major histocompatibility (B) complex. *Animal Science Image Gallery*. <http://animalimagegallery.org/search.php> #5178

University of New Hampshire Undergraduate Research Opportunities Program Advisee

Taylor, R. L., Jr., J. L. Anderson, and S. C. Smith, 2014. Commentary on: Atherosclerosis-susceptible and atherosclerosis-resistant pigeon aortic cells express different genes *in vivo*. *International Atherosclerosis Society* <http://www.athero.org/commentaries/comm1188.asp>

Anderson, J. L., S. C. Smith and **R. L. Taylor, Jr.** 2013. Atherosclerosis-susceptible and atherosclerosis-resistant pigeon aortic smooth muscle cells express different genes and proteins *in vitro*. *In: Current Trends in Atherogenesis*. R. Rezzani, (ed.) InTech, Inc., Rijeka, Croatia (review) pp. 165-186 accessed February 27, 2013 doi: 10.5772/52948 <http://www.intechopen.com/articles/show/title/atherosclerosis-susceptible-and-atherosclerosis-resistant-pigeon-aortic-smooth-muscle-cells-express->

Anderson, J. L., C. M. Ashwell, S. C. Smith, R. Shine, E. C. Smith, and **R. L. Taylor, Jr.** 2013. Atherosclerosis-susceptible and atherosclerosis-resistant pigeon aortic cells express different genes *in vivo*. *Poult. Sci.* 92:2668-2680 doi: 10.3382/ps.2013-03306

Anderson, J. L., **R. L. Taylor, Jr.**, E. C. Smith, W. K. Thomas and S. C. Smith. 2012. Differentially expressed genes in aortic smooth muscle cells from atherosclerosis-susceptible and atherosclerosis-resistant pigeons. *Poult. Sci.* 91:1315-1325 doi: 10.3382/ps.2011-01975

Anderson, J. L., S. C. Smith and **R. L. Taylor, Jr.** 2011. Spontaneous atherosclerosis in pigeons: A good model of human disease. *In: Atherogenesis*. S. Parthasarathy, (ed.) InTech, Inc., Rijeka, Croatia (review) pp. 25-48 Accessed January 11, 2012 doi: 10.5772/26121 <http://www.intechopen.com/articles/show/title/spontaneous-atherosclerosis-in-pigeons-a-good-model-of-human-disease>

Smith, S. C., E. C. Smith and **R. L. Taylor, Jr.** 2011. Genetic analysis of spontaneous aortic atherosclerosis in susceptible and resistant pigeons. *Animal Science Image Gallery*. <http://animalimagegallery.org/search.php> #5153

Taylor, R. L., Jr. 2011. Letter to the Editor – Technology develops faster than we adapt. *The New Hampshire* 100 (48):16

Taylor, R. L., Jr. 2010. Letter to the Editor – Genetics Stocks. *Poult. Sci.* 89:3-4 doi: 10.3382/ps.2009-00540

Goto, R. M., Y. Wang, **R. L. Taylor, Jr.**, P. S. Wakenell, K. Hosomichi, T. Shiina, C. Blackmore, W. E. Briles, and M. M. Miller. 2009. BG1 has a major role in MHC-linked resistance to malignant lymphoma in the chicken. *Proc. Natl. Acad. Sci. USA* 106:16740-16745 doi: 10.1073/pnas.0906776106

*Schulten, E. S., W. E. Briles and **R. L. Taylor, Jr.** 2009. Rous sarcoma growth in lines congenic for major histocompatibility (*B*) complex recombinant haplotypes. *Poult. Sci.* 88:1601-1607 doi: 10.3382/ps.2009-00085

Taylor, R. L., Jr. 2009. The future of poultry science research: Things I think I think. *Poult. Sci.* 88:1334-1338 doi: 10.3382/ps.2009-00056

Taylor, R. L., Jr. 2009. In memorium – Bruce Glick. *AAI Newsletter July/August* p. 17

Taylor, R. L., Jr., and C. M. Ashwell. 2009. Landmark papers from the first 100 years of Poultry Science Symposium - Introduction. *Poult. Sci.* 88: 811-812 doi: 10.3382/ps.2008-00543

Taylor, R. L., Jr., and F. M. McCorkle, Jr. 2009. A landmark contribution to Poultry Science - Immunological function of the bursa of Fabricius. *Poult. Sci.* 88: 816-823 doi: 10.3382/ps.2008-00528

Taylor, R. L., Jr. and T. R. Scott. 2009. Nunc Dimitis - Bruce Glick. *Poult. Sci.* 88:1129

Chapman, M. E., **R. L. Taylor, Jr.**, and R. F. Wideman, Jr. 2008. Analysis of plasma serotonin levels and hemodynamic responses following chronic serotonin infusion in broilers challenged with bacterial lipopolysaccharide and microparticles. *Poult. Sci.* 87:116-124

Smith, S. C., E. C. Smith, M. L. Gilman, J. L. Anderson, and **R. L. Taylor, Jr.** 2008. Differentially expressed soluble proteins in aortic cells from atherosclerosis-susceptible and resistant pigeons. *Poult. Sci.* 87:1328-1334 doi: 10.3382/ps.2008-00051

*Schulten, E. S., L. M. Yates and **R. L. Taylor, Jr.** 2007. Antibody response against sheep red blood cells in lines congenic for major histocompatibility (*B*) complex recombinant haplotypes. *Int. J. Poult. Sci.* 6:732-738

Fulton, J. E., H. Juul-Madsen, C. M. Ashwell, A. M. McCarron, J. A. Arthur, N. O'Sullivan and **R. L. Taylor, Jr.** 2006. Molecular genotype identification of the *Gallus gallus* major histocompatibility complex. *Immunogenetics* 58:407-421

Tupick, T. A., S. E. Bloom and **R. L. Taylor, Jr.** 2005. Major histocompatibility (*B*) complex gene dose effects on Rous sarcoma virus tumor growth. *Int. J. Poult. Sci.* 4:286-291

*University of New Hampshire Oliver Hubbard Undergraduate Research Fellowship
University of New Hampshire Undergraduate Research Opportunities Program Advisee*

Erf, G. F. and **R. L. Taylor, Jr.** 2004. Ancillary Scientists Symposium - The avian immune system: Function and modulation: Introduction. *Poult. Sci.* 83:550-551

Miller, M. M., J. Fulton, D. Burt, **R. L. Taylor Jr.**, M E. Delany, L. Hillier, J. B. Dodgson, D. J. Anderson, S. E. Antonarakis, P. Bork, M. Bronner-Fraser, A. C. Burke, J. Champagnat, V. A. Chiappinelli, J. Corwin, E. Eichler, H. Ellegren, P. Fuchs, T. C. Glenn, P. F. Goetinck, M. A. M. Groenen, R. P. Harvey, M. Jacob, H. J. Karten, M. Long, W. Miller, B. A. Morgan, P. Mozdziak, P. Neiman, M. A. Nieto, C. P. Ordahl, R. Owen. D. J. Perkel, O. Pourquie, L. Puelles, C. Ragsdale, M. Rao, A. D. Riggs, R. H. Sawyer, C. Scharff, G. C. Schoenwolf, B. Sokolowski, C. D. Stern, G. Ka-Shu Wong, H. Yang, and N. Yang. 2004. Genome news highlights loss of chicken strains. *Nature (Correspondence)* 432:799. (Nature Correspondence signed by 46 investigators drawing attention to the loss of genetic stocks critical to ongoing research.)

Taylor, R. L., Jr. 2004. Major histocompatibility (*B*) complex control of responses against Rous sarcomas. *Poult. Sci.* 83:638-649 (review)

- *Medarova, Z., W. E. Briles and **R. L. Taylor, Jr.** 2003. Alloantigen system *L* affects antibody responses. *Int. J. Poult. Sci.* 2:23-27
- *Medarova, Z., W. E. Briles and **R. L. Taylor, Jr.** 2003. Resistance, susceptibility, and immunity to cecal coccidiosis: *B* complex and alloantigen system *L* effects. *Poult. Sci.* 82:1113-1117
- *Medarova, Z., W. E. Briles and **R. L. Taylor, Jr.** 2003. Immunological functions of avian alloantigens. *Recent Res. Dev. Infect. Immun.* (review) 1:145-166
- *Medarova, Z., W. E. Briles and **R. L. Taylor, Jr.** 2002. Alloantigen system *L* affects the outcome of Rous sarcomas. *Exp. Biol. Med.* 227:158-163
- *Medarova, Z., W. E. Briles and **R. L. Taylor, Jr.** 2001. The effects of alloantigen system *L* on the fate of Rous sarcomas. *In: Current Progress on Avian Immunology Research.* K. A. Schat (ed.), American Association of Avian Pathologists Kennett Square, PA, pp. 215-219
- Pisenti, J. M., M. E. Delany, **R. L. Taylor, Jr.**, U. K. Abbott, H. Abplanalp, J. A. Arthur, M. R. Bakst, C. Baxter-Jones, J. J. Bitgood, F. Bradley, K. M. Cheng, R. R. Dietert, J. B. Dodgson, A. Donoghue, A. Emsley, R. Etches, R. R. Frahm, A. A. Grunder, R. J. Gerrits, P. F. Goetinck, S. J. Lamont, G. R. Martin, P. E. McGuire, G. P. Moberg, L. J. Pierro, C. O. Qualset, M. Qureshi, F. Schultz and B. W. Wilson. 2001. Avian genetic resources at risk: An assessment and proposal for conservation of genetics stocks in the USA and Canada. *Avian Poult. Biol. Rev.* 12:1-102 (review)
- *Senseney, H. L., H. Abplanalp, W. E. Briles and **R. L. Taylor, Jr.** 2001. Complementation between *BQ* and *B17* MHC haplotypes increases Rous sarcomas regression. *In: Current Progress on Avian Immunology Research.* K. A. Schat (ed.), American Association of Avian Pathologists Kennett Square, PA, pp. 211-214
- Smith, S. C., E. C. Smith, and **R. L. Taylor, Jr.** 2001. Susceptibility to spontaneous aortic lesions in pigeons: An autosomal recessive trait. *J. Hered.* 92:439-442
- *LePage, K. T., W. E. Briles, F. Kopti and **R. L. Taylor, Jr.** 2000. Nonmajor histocompatibility complex alloantigen effects on the fate of Rous sarcomas. *Poult. Sci.* 79:343-348
- *LePage, K. T., M. M. Miller, W. E. Briles and **R. L. Taylor Jr.** 2000. *Rfp-Y* genotype affects the fate of Rous sarcomas in *B2B5* chickens. *Immunogenetics* 51:751-754
- *Senseney, H. L., H. Abplanalp, W. E. Briles and **R. L. Taylor, Jr.** 2000. Allelic complementation between MHC haplotypes *BQ* and *B17* increases regression of Rous sarcomas. *Poult. Sci.* 79:1736-1740
- *Cieszynski, J. A., M. A. Qureshi and **R. L. Taylor, Jr.** 1999. Calcium role in chicken IL-1 secretion. *Poult. Sci.* 78:70-74
- Cotter, P. F., **R. L. Taylor, Jr.**, and H. Abplanalp. 1998. *B* complex associated immunity to *Salmonella enteritidis* challenge in congenic chickens. *Poult. Sci.* 77:1846-1851
- Taylor, R. L., Jr.** 1998. The turkey immune system and managing disease resistance. Pages 11-20 *In: Proc. 35th New England Turkey Growers Conference*, M. Darre, (ed.), Massachusetts Turkey Growers Assoc.

Brake, D. A., C. H. Fedor, B. W. Werner, T. J. Miller, **R. L. Taylor, Jr.** and R. A. Clare. 1997. Characterization of immune response to *Eimeria tenella* antigens in a natural immunity model with hosts which differ serologically at the B locus of the major histocompatibility complex. *Infect. Immun.* 65:1204-1210

*Caron, L. A., H. Abplanalp and **R. L. Taylor, Jr.** 1997. Resistance, susceptibility and immunity to *Eimeria tenella* in major histocompatibility (B) complex congenic lines. *Poult. Sci.* 76:677-682

Cotter, P. F. and **R. L. Taylor, Jr.** 1997. B-complex (chicken MHC) associated immunity to *Salmonella enteritidis*. Pages 281-285 *In: Salmonella and Salmonellosis*, Proc. P. Colin, J. M. LeGoux, G. Clement, (eds.) Zoopole, Ploufragan, France

Dix, M. C. and **R. L. Taylor, Jr.** 1996. Differential antibody responses in 6.B major histocompatibility (B) complex congenic chickens. *Poult. Sci.* 75:203-207

University of New Hampshire Oliver Hubbard Undergraduate Research Fellowship

Halpern, M. S., J. M. England, G. C. Kopen, A. A. Christou and **R. L. Taylor, Jr.** 1996. Endogenous c-*src* as a determinant of the tumorigenicity of *src* oncogenes. *Proc. Natl. Acad. Sci. USA* 93:824-827

*LePage, K. T., S. E. Bloom and **R. L. Taylor, Jr.** 1996. Antibody response to sheep red blood cells in a major histocompatibility (B) complex aneuploid line of chickens. *Poult. Sci.* 75:346-350

Miller, M. M., R. M. Goto, **R. L. Taylor, Jr.**, R. Zoorob, C. Auffray, R. W. Briles, W. E. Briles and S. E. Bloom. 1996. Assignment of *Rfp-Y* to the chicken major histocompatibility complex/NOR microchromosome and evidence for high frequency recombination associated with the nucleolar organizer region. *Proc. Natl. Acad. Sci. USA* 93:3958-3962

Taylor, R. L., Jr., J. M. England, G. C. Kopen, A. A. Christou and M. S. Halpern. 1996. Sequence variation in the *src* gene product affects metastasis formation: The central, but not exclusive, role of the tumor immune response. *Int. J. Cancer* 68:228-231

Cotter, P. F., J. E. Murphy, J. D. Klinger and **R. L. Taylor, Jr.** 1995. Identification of *Salmonella enteritidis* from experimentally infected hens using a colorimetric DNA hybridization method. *Avian Dis.* 39:873-878

Delany, M. E., **R. L. Taylor, Jr.** and S. E. Bloom. 1995. Teratogenic development in chicken embryos associated with a major deletion in the rRNA gene cluster. *Dev. Growth Differ.* 37:403-412

Golemboski, K., **R. L. Taylor, Jr.**, W. E. Briles, R. W. Briles and R. R. Dietert. 1995. Chickens with serologically-similar B complex recombinant haplotypes differ in macrophage responses. *Avian Pathol.* 24:347-352

Nicolas-Bolnet, C., M. A. Qureshi, J. A. Cieszynski and **R. L. Taylor, Jr.** 1995. Avian hematopoiesis in response to avian cytokines. *Poult. Sci.* 74:1970-1976

Denno, K., F. M. McCorkle and **R. L. Taylor, Jr.** 1994. Catecholamines modulate chicken immunoglobulin M and immunoglobulin G plaque-forming cells. *Poult. Sci.* 73:1858-1866

McCorkle, F. M. and **R. L. Taylor, Jr.** 1994. Continuous administration of dopamine alters cellular immunity in chickens. *Comp. Biochem. Physiol.* 109C:289-293

Schat, K. A., **R. L. Taylor, Jr.** and W. E. Briles. 1994. Resistance to Marek's disease in chickens with recombinant haplotypes of the major histocompatibility complex. *Poult. Sci.* 73:502-508

- Taylor, R. L., Jr.**, J. M. England, G. C. Kopen, A. A. Christou and M. S. Halpern. 1994. Major histocompatibility (*B*) complex control of the formation of *v-src*-induced metastases. *Virology* 205:569-573
- White E. C., W. E. Briles, R. W. Briles and **R. L. Taylor, Jr.** 1994. Response of six major histocompatibility (*B*) complex recombinant haplotypes to Rous sarcomas. *Poult. Sci.* 73:836-842
University of New Hampshire Undergraduate Research Opportunities Program Advisee
- Glick, B. and **R. L. Taylor, Jr.** 1993. The cellular and fluid microenvironment of immune tissues. *Poult. Sci.* 72:1259-1261
- McCorkle, F. M. and **R. L. Taylor, Jr.** 1993. Biogenic amines regulate avian immunity. *Poult. Sci.* 72:1285-1288
- Quist, K. L., **R. L. Taylor, Jr.**, L. W. Johnson and R. G. Strout. 1993. Comparative development of *Eimeria tenella* in primary chick kidney cell cultures derived from coccidia resistant and susceptible chickens. *Poult. Sci.* 72:82-87
- Qureshi, M. A. and **R. L. Taylor, Jr.** 1993. Analysis of macrophage functions in Rous sarcoma-induced tumor regressor and progressor 6.*B* congenic chickens. *Vet. Immunol. Immunopath.* 37:285-294
- Cotter, P. F., **R. L. Taylor, Jr.** and H. Abplanalp. 1992. Differential resistance to *Staphylococcus aureus* challenge in major histocompatibility (*B*) complex congenic lines. *Poult. Sci.* 71:1873-1878
- Dietert, M. F., **R. L. Taylor, Jr.** and R. R. Dietert. 1992. Avian blood groups. *Poultry Sci. Rev.* 4:87-105 (review)
- Taylor, R. L., Jr.**, R. E. Austic and R. R. Dietert. 1992. Dietary arginine supplementation influences Rous sarcoma growth in a major histocompatibility (*B*) complex progressor genotype. *Proc. Soc. Exp. Biol. Med.* 199:38-41
- Taylor, R. L., Jr.**, D. L. Ewert, J. M. England and M. S. Halpern. 1992. Major histocompatibility (*B*) complex control of the growth pattern of *v-src* DNA-induced primary tumors. *Virology* 191:477-479
- Austic, R. E., R. R. Dietert, Y.-J. Sung and **R. L. Taylor, Jr.** 1991. Amino acids in immune function. *Proc. Cornell Nutrition Conf.* 109-114
- *Bombara, C. J. and **R. L. Taylor, Jr.** 1991. Signal transduction events in chicken interleukin-1 production. *Poult. Sci.* 70:1372-1380
- Cotter, P. F. and **R. L. Taylor, Jr.** 1991. Differential resistance to *Staphylococcus aureus* challenge in two related lines of chickens. *Poult. Sci.* 70:1357-1361
- Dietert, R. R., **R. L. Taylor, Jr.**, and M. F. Dietert. 1991. Biological functions of the chicken major histocompatibility complex. *Crit. Rev. Poultry Biol.* 3:111-129 (review)
- Gray, R., F. M. McCorkle, K. Denno and **R. L. Taylor, Jr.** 1991. Modulation of chicken plaque-forming cells by serotonin and dopamine. *Poult. Sci.* 70:1521-1526

- Murphy, J., J. Klinger, **R. L. Taylor, Jr.**, and P. F. Cotter. 1991. A comparison of conventional vs. a DNA hybridization method for the detection of Salmonella in hens and eggs. Pages 335-341 *In: Colonization Control of Human Bacterial Enteropathogens in Poultry*. L. C. Blankenship, (ed.) Academic Press, Inc., New York
- Dietert, R. R., **R. L. Taylor, Jr.**, and M. F. Dietert. 1990. The chicken major histocompatibility complex: Structure and impact on immune function, disease resistance and productivity. Pages 7-26 *In: MHC, Differentiation Antigens, and Cytokines in Animals and Birds*. O. Barta, (ed.) Bar-Lab, Inc., Blacksburg, VA (review)
- McCorkle, F. M., **R. L. Taylor, Jr.**, K. Denno and M. Jabe. 1990. Monoamines alter *in vitro* migration of chicken leukocytes. *Dev. Comp. Immunol.* 14:85-93
- *Lukacs, N., W. E. Briles, R. W. Briles and **R. L. Taylor, Jr.** 1989. Response of major histocompatibility (B) complex haplotypes B22, B26 and B30 to Rous sarcomas. *Poult. Sci.* 68:233-237
- McCorkle, F. M. and **R. L. Taylor, Jr.** 1989. Continuous administration of 5-hydroxytryptamine alters cellular immunity in chickens. *Comp. Biochem. Physiol.* 94C:511-514
- Alroy, J., V. Goyal, N. W. Lukacs, **R. L. Taylor, Jr.**, R. G. Strout, H. D. Ward and M. E. A. Pereira. 1989. Glycoconjugates of intestinal epithelium of the domestic fowl (*Gallus domesticus*): A lectin histochemistry study. *Histochem. J.* 21:187-193
- Clare, R. A., **R. L. Taylor, Jr.**, R. G. Strout and W. E. Briles. 1989. Characterization of resistance and immunity to *Eimeria tenella* among B-F/B-G major histocompatibility complex recombinants. *Poult. Sci.* 68:639-645
- Taylor, R. L., Jr.** 1988. Regulation of immune responses to pathogens: T, B and MHC. Pages 157-175 *In: Proc. National Breeder's Roundtable*, I. Y. Pevzner, (ed.), Poultry Breeders of America
- Taylor, R. L., Jr.**, R. A. Clare, P. H. Ward, R. W. Briles and W. E. Briles. 1988. Anti-Rous sarcoma response of major histocompatibility (B) complex haplotypes B23, B24 and B30. *Anim. Genet.* 19:277-284
- Vincent, S. C. and **R. L. Taylor, Jr.** 1988. Virus dilution affects the anti-Rous sarcoma response of progressor but not regressor major histocompatibility (B) complex genotypes. *Poult. Sci.* 67:1491-1497
- University of New Hampshire Oliver Hubbard Undergraduate Research Fellowship*
- Cotter, P. F., **R. L. Taylor, Jr.**, T. L. Wing and W. E. Briles. 1987. Major histocompatibility (B) complex associated differences in the delayed wattle reaction to Staphylococcal antigen. *Poult. Sci.* 66:203-208
- Clare, R. A., R. G. Strout, **R. L. Taylor, Jr.** and P. A. Aeed. 1987. Bile and serum immunoglobulin levels during primary and secondary infections with *Eimeria tenella* in chickens. *Vet. Parasitol.* 25:33-38
- Lukacs, N., F. M. McCorkle and **R. L. Taylor, Jr.** 1987. Monoamines suppress the phytohemagglutinin wattle response in chickens. *Dev. Comp. Immunol.* 11:759-768
- Taylor, R. L., Jr.**, P. F. Cotter, T. L. Wing and W. E. Briles. 1987. Major histocompatibility (B) complex and sex effects on the phytohaemagglutinin wattle response. *Anim. Genet.* 18:343-350

Clare, R. A., R. G. Strout and **R. L. Taylor, Jr.** 1986. Immunity to *Eimeria tenella*: Differential effects of B (MHC) genotype and immunizing dose. *In: Research in Avian Coccidiosis*. L. R. McDougald, L. P. Joyner and P. L. Long, (eds.), University of Georgia, pp. 544-554

Taylor, R. L., Jr., R. G. Strout, R. A. Clare and P. A. Aeed. 1986. Delayed wattle reactions in *Eimeria tenella* infected chickens. *Dev. Comp. Immunol.* 10:387-394

Clare, R. A., R. G. Strout, **R. L. Taylor, Jr.**, W. M. Collins and W. E. Briles. 1985. Major histocompatibility (B) complex effects on acquired immunity to cecal coccidiosis. *Immunogenetics* 22:593-599

Olah, I., B. Glick and **R. L. Taylor, Jr.** 1985. Effect of surgical bursectomy on the ellipsoid, ellipsoid-associated cells, and periellipsoid region of the chicken's spleen. *J. Leukocyte Biol.* 38:459-469

Taylor, R. L., Jr., G. E. Rodriguez and R. T. Leshner. 1984. Severe, protracted disseminated varicella. *Ann. Allergy* 52:17-21, 35-37

Olah, I., B. Glick and **R. L. Taylor, Jr.** 1984. Meckel's diverticulum II. A novel lymphoepithelial organ in the chicken. *Anat. Rec.* 208:253-263

Olah, I., B. Glick and **R. L. Taylor, Jr.** 1984. Effect of soluble antigen on the ellipsoid-associated cells of the chicken's spleen. *J. Leukocyte Biol.* 35:501-510

Taylor, R. L., Jr. and B. Glick. 1983. Pituitary and testicular activity in chickens after embryonic testosterone treatment. *Am. J. Physiol.* 244:E66-71

Glick, B., **R. L. Taylor, Jr.**, D. Martin, M. Watabe, E. J. Day and D. Thompson. 1983. Calorie-protein deficiencies and the immune response of the chicken. II. Cell-mediated immunity. *Poult. Sci.* 62:1889-1893

Olah, I., **R. L. Taylor, Jr.** and B. Glick. 1983. Ascites formation in the chicken. *Poult. Sci.* 62:2095-2098

Taylor, R. L., Jr. 1983. Regulatory elements of the immune system. *Clin. Immunol. Newsl.* 4(10):141-143

Taylor, R. L., Jr. 1981. Pituitary and testicular activity in male New Hampshire chickens following embryonic exposure to testosterone propionate. Ph. D. Dissertation. Mississippi State University. Directed by Bruce Glick

Blevins, W. T., **R. L. Taylor, Jr.**, E. C. Smith and J. A. Tucker. 1981. *Chromobacterium violaceum*: An opportunistic pathogen associated with animal wastes. *Highlights Ag. Res. Auburn Univ.* 28(4):8

McCorkle, F., **R. Taylor**, R. Stinson, E. Day and B. Glick. 1980. Effects of a megalevel of vitamin C on the immune response of the chicken. *Poult. Sci.* 59:1324-1327

Stinson, R., F. McCorkle, M. Mashaly, **R. Taylor**, D. Martin and B. Glick. 1980. The effects of diurnal rhythms on immune parameters in New Hampshire chickens. *Int. Arch. Allergy Appl. Immunol.* 61:220-226

Taylor, R. L., Jr. 1978. Antibiotic resistance in *Chromobacterium violaceum*. M. S. Thesis. Auburn University. Directed by W. T. Blevins

GENBANK SUBMISSIONS University of New Hampshire

Author or co-author of submissions to NCBI-GenBank for public access.

82 nucleotide sequences (Selected submissions are listed below).

DQ239533.1 *Gallus gallus* haplotype B24 microsatellite LEI0258 sequence, 309 bp linear DNA

DQ239532.1 *Gallus gallus* haplotype B23 microsatellite LEI0258 sequence, 357 bp linear DNA

DQ239531.1 *Gallus gallus* haplotype B22 microsatellite LEI0258 sequence, 249 bp linear DNA

DQ239525.1 *Gallus gallus* haplotype B2 microsatellite LEI0258 sequence, 261 bp linear DNA

NM_001044683.2 *Gallus gallus* MHC BF1 class I (BF1), mRNA, 1,244 bp linear mRNA

NM_001099355.1 *Gallus gallus* BG-like antigen 1 (BG1), mRNA, 1,023 bp linear mRNA

NM_001099353.2 *Gallus gallus* major histocompatibility complex, class II, DM alpha (DMA), mRNA, 915 bp linear mRNA

JQ780448.1 *Gallus gallus* BG1 protein (BG1) mRNA, BG1*R4 allele, complete cds, 1,536 bp linear mRNA

JQ780447.1 *Gallus gallus* BG1 protein (BG1) mRNA, BG1*R2 allele, complete cds, 1,439 bp linear mRNA

2823 expressed sequence tag (EST) sequences (Selected submissions are listed below).

JZ477010.1 1. WC_ROSI.B_H12 WC_ROSI *Columba livia* cDNA, mRNA sequence, 305 bp linear mRNA

JZ477009.1 2. WC_ROSI.B_H11 WC_ROSI *Columba livia* cDNA, mRNA sequence, 119 bp linear mRNA

JZ476832.1 108. WC_CONT.A_F06.B WC_CONT *Columba livia* cDNA, mRNA sequence, 171 bp linear mRNA

JZ476831.1 109. WC_CONT.A_F06.A WC_CONT *Columba livia* cDNA, mRNA sequence, 267 bp linear mRNA

JK714286.1 1. WC_C3_6WK_D_H12 WC_C3_6WK *Columba livia* cDNA, mRNA sequence, 238 bp linear mRNA

2JK714285.1 . WC_C3_6WK_D_H11 WC_C3_6WK *Columba livia* cDNA, mRNA sequence, 351 bp linear mRNA

JK714284.1 3. WC_C3_6WK_D_H10 WC_C3_6WK *Columba livia* cDNA, mRNA sequence, 424 bp linear mRNA

JK714283.1 4. WC_C3_6WK_D_H09 WC_C3_6WK *Columba livia* cDNA, mRNA sequence, 238 bp linear mRNA

JK714282.1 5. WC_C3_6WK_D_H07 WC_C3_6WK *Columba livia* cDNA, mRNA sequence, 268 bp linear mRNA

TECHNICAL REPORTS West Virginia University

Taylor, R. L., Jr. 2021. West Virginia University NE-1834 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2020. West Virginia University NE-1834 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2019. West Virginia University NE-1834 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2018. West Virginia University NE-1334 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2017. West Virginia University NE-1334 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2016. West Virginia University NE-1334 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2015. West Virginia University NE-1334 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2014. West Virginia University NE-1334 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

TECHNICAL REPORTS University of New Hampshire

Taylor, R. L., Jr. 2014. University of New Hampshire NE-1334 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2013. University of New Hampshire NE-1034 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2012. University of New Hampshire NE-1034 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2011. University of New Hampshire NE-1034 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2010. University of New Hampshire NE-1034 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2009. University of New Hampshire NE-1034 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2008. University of New Hampshire NE-1016 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. (chair) and Project Technical Committee. 2007. NE-1016 Multistate Project Revision: Genetic Bases for Resistance and Immunity to Avian Diseases

Taylor, R. L., Jr. 2007. University of New Hampshire NE-1016 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2006. University of New Hampshire NE-1016 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2005. University of New Hampshire NE-1016 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2004. University of New Hampshire NE-1016 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2003. University of New Hampshire NE-60 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2002. University of New Hampshire NE-60 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. (chair), P. F. Cotter, G. Erf, M. Qureshi, and K. A. Schat. 2002. NE-60 Multistate Project Revision: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2001. University of New Hampshire NE-60 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 2000. University of New Hampshire NE-60 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

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

Taylor, R. L., Jr. 1999. University of New Hampshire NE-60 Multistate Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1998. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. (chair), P. F. Cotter, M. E. Delany, M. Emara, G. Erf, S. J. Lamont, M. Qureshi, and K. A. Schat. 1997. NE-60 Regional Project Revision: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1997. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1996. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1995. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1994. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1993. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. (chair), L. D. Bacon, P. F. Cotter, R. R. Dietert, S. J. Lamont, K. A. Schat, and D. Weinstock. 1992. NE-60 Regional Project Revision: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1992. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1991. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1990. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1989. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1988. Chairman's Report NE-60 Regional Project: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1988. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance and Immunity to Avian Diseases.

Lamont, S. J. (chair), S. E. Bloom, P. F. Cotter, K. A. Schat, R. E. Smith, and **R. L. Taylor, Jr.** 1987. NE-60 Regional Project Revision: Genetic Bases for Resistance and Immunity to Avian Diseases.

Taylor, R. L., Jr. 1987. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance to Avian Diseases.

Taylor, R. L., Jr. 1986. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance to Avian Diseases.

Taylor, R. L., Jr. and W. M. Collins. 1985. University of New Hampshire NE-60 Regional Project Report: Genetic Bases for Resistance to Avian Diseases.

ABSTRACTS PRESENTED

* denotes graduate advisee

Taylor, R. L., Jr., W. Drobik-Czwarno, A. Wolc and and J. E. Fulton. 2021. Candidate genes for *A* and *E* blood group systems in the chicken. *Poult. Sci.* 100(E-Suppl. 1):54

Miller, M. M., J. Zhang, R. M. Goto, C. F. Honaker, P. B. Siegel, **R. L. Taylor, Jr.**, and H. K. Parmentier. 2020. Major advances in defining variability and function of chicken MHC-Y region genes. *PAG XXVII* https://plan.core-apps.com/pag_2020/abstract/66376fdb-aa85-4703-a8d0-b3a4372e75f2

Taylor, R. L., Jr., W. Drobik-Czwarno, and J. E. Fulton. 2020. Candidate gene for chicken alloantigen A. *Poult. Sci.* 99(E-Suppl. 1):45-46

Taylor, R. L., Jr. and R. T. Kopulos. 2019. Non-Mhc background genes increase Rous sarcoma progression in major histocompatibility (B) complex genotype B24B24. *Poult. Sci.* 98(E-Suppl. 1):97

Zhang, J., R. M. Goto, C. F. Honaker, P. B. Siegel, **R. L. Taylor**, H. K. Parmentier, and M. M. Miller. 2019. Segregation of chicken MHC-Y haplotypes in high and low antibody selected lines provides evidence that MHC-Y contributes to the genetics of immune responses. *J. Immunol.* 202(Suppl. 1):73.8

Nuthalapati, N., J. D. Evans, **R. L. Taylor, Jr.**, S. L. Branton, B. Nanduri, and G. T. Pharr. 2018. Transcriptomics analysis of early B-cell development in the chicken embryo. *CRWAD P221* (Conference of Research Workers in Animal Disease) p.257

Taylor, R. L., Jr. and R. T. Kopulos. 2018. Non-Mhc background genes reduce Rous sarcoma progression in major histocompatibility (B) complex genotype B5B5. *Poult. Sci.* 97 (E-Suppl. 1):110-111

Nuthalapati, N., J. D. Evans, R. L. Taylor, Jr., S. L. Branton, B. Nanduri, and G. T. Pharr. 2018. Transcriptomics analysis of early B-cell development in the chicken embryo. *Proc. 15th Midsouth Computational Biology and Bioinformatics Society (MCBIOS) Conference.*

Carey, J. B. and **R. L. Taylor, Jr.** 2017. Key components to successful publishing in Poultry Science Association journals. *Poult. Sci.* 96(E-Suppl. 1):214

Kopulos, R. T., **R. L. Taylor, Jr.**, and W. E. Briles. 2017. Genotypic variation, class I gene copy number variation and recombination within the chicken major histocompatibility complex Y (MHC-Y) system. *Poult. Sci.* 96(E-Suppl. 1):91

Swaggerty, C. L., C. M. Ashwell, M. H. Kogut, and **R. L. Taylor, Jr.** 2016. Identification of Athens Canadian Random Bred sires with naturally high and low levels of key immune markers. *Poult. Sci.* 95(E-Suppl. 1):116

Taylor, R. L., Jr., M. E. Berres, and J. E. Fulton. 2016. SNP identification of MHC haplotypes in Lakenvelder and Golden Sebright chickens. *Poult. Sci.* 95(E-Suppl. 1):100

He, Y., H. Zhang, **R. L. Taylor, Jr.**, and J. Song. 2015. DNA methylation patterns associated with the resistance of Marek's disease. *Poult. Sci.* 94(E-Suppl. 1):50

Taylor, R. L., Jr., S. J. Nolin, Z. S. Lowman, A. E. Zavelo, and C. M. Ashwell. 2015. Antibody kinetics differ among Mhc-identical recombinant congenic strains. *Poult. Sci.* 94(E-Suppl. 1):64

Taylor, R. L., Jr., S. J. Nolin, Z. S. Lowman, A. E. Zavelo, and C. M. Ashwell. 2014. *v-src* tumor growth differs among recombinant congenic strains identical at the major histocompatibility complex. *Poult. Sci.* 93(E-Suppl. 1):40

Taylor, R. L., Jr., J. L. Anderson, W. K. Thomas, and S. C. Smith. 2013. Differentially expressed genes in aortic smooth muscle cells from atherosclerosis-susceptible and atherosclerosis-resistant pigeons. *Poult. Sci.* 92(E-Suppl. 1):56

Burks, T., C. M. Ashwell, and **R. L. Taylor, Jr.** 2012. High or low antibody responder chickens have differential embryonic bursal gene expression after testosterone exposure. 21st University of New Hampshire Undergraduate Research Conference 2012 p. 8

http://www.unh.edu/urc/sites/unh.edu.unc/files/media/COLSA_URC_2012_Abstract_Book.pdf

University of New Hampshire Undergraduate Research Opportunities Program Advisee

Taylor, R. L., Jr., T. A. Burks, P. B. Siegel, and C. M. Ashwell. 2012. Temporal and treatment changes in embryonic bursal gene expression after testosterone exposure in high and low antibody lines. *Poult. Sci.* 91(Suppl. 1):29

Jacob, R., E. D. Peebles, **R. L. Taylor, Jr.**, S. L. Branton, B. Weathers, and G. T. Pharr. 2011. Expression of the EphA4 receptor in the bursa of Fabricius. International Poultry Scientific Forum, Atlanta, GA *Poult. Sci.* 90(Suppl. 1):216

Taylor, R. L., Jr., T. A. Burks, P. B. Siegel, and C. M. Ashwell. 2011. Modulation of embryonic bursal gene expression after exposing high and low antibody response lines to testosterone. *Poult. Sci.* 90(Suppl. 1):71

Burks, T., C. M. Ashwell, and **R. L. Taylor, Jr.** 2011. Embryonic bursal gene expression in chicken lines selected for differential antibody response is altered by testosterone exposure. 20th University of New Hampshire COLSA Undergraduate Research Conference 2011 p.41

University of New Hampshire Undergraduate Research Opportunities Program Advisee

Taylor, R. L., Jr., T. Burks, C. Timmerman, P. B. Siegel, and C. M. Ashwell. 2010. Testosterone exposure alters embryonic bursal gene expression in chicken lines selected for differential antibody response. *Poult. Sci.* 89(Suppl. 1):544

Weathers, B., S. L. Branton, E. D. Peebles, **R. L. Taylor, Jr.**, R. Jacob, and G. T. Pharr. 2010. Expression of the EphB2 receptor and ephrin-B1 ligand in the bursa of Fabricius. 10th Annual Merit-NIH National Veterinary Scholars Symposium, University of Georgia, Athens, GA

Keeley, M., S. Smith, **R. Taylor**, and J. Anderson. 2009. Atherosclerotic gene expression modulated by a thiazoladinediones. 18th University of New Hampshire COLSA Undergraduate Research Conference 2009 p. 12

Taylor, R. L., Jr., M. E. Chapman, R. F. Wideman, Jr., N. B. Anthony, and C. M. Ashwell. 2009. Ascites-resistant and susceptible broiler lines express different genes in their right ventricles. *Poult. Sci.* 88(Suppl. 1):51

Keynote Speaker – Genetics section

Connors, C., J. L. Anderson, S. C. Smith, and **R. L. Taylor, Jr.** 2008. Genetic factors of atherosclerosis in white Carneau pigeons (*Columba livia*). 17th University of New Hampshire COLSA Undergraduate Research Conference 2008 p. 12

Miller, M. M., Y. Wang, R. M. Goto, P. S. Wakenell, and **R. L. Taylor, Jr.**, 2008. Genetic resistance to GaHV-2 induced lymphoma in the chicken model. *Infectious Agents and Cancer* 2009 4(Suppl 2): P28.

Smith, S. C., E. C. Smith, M. L. Gilman, J. L. Anderson and **R. L. Taylor, Jr.** 2008. Differentially expressed soluble proteins in aortic cells from atherosclerosis-susceptible and resistant pigeons. *Poult. Sci.* 87(Suppl. 1):68-69

Chapman, M. A., **R. L. Taylor, Jr.**, and R. F. Wideman, Jr. 2007. 5-HT osmotic minipump study in ascites susceptible and resistant lines. *Poult. Sci.* 86(Suppl. 1):221

*Wilkinson, N. G., L. M. Yates, R. T. Kopulos, W. E. Briles, and **R. L. Taylor, Jr.** 2007. Antibody response against bovine red blood cells in major histocompatibility (*B*) complex recombinant R13. *Poult. Sci.* 86(Suppl. 1):143

Fulton, J. E., C. M. Ashwell, N. O'Sullivan, J. A. Arthur, and **R. L. Taylor, Jr.** 2006. SNP and insertions/deletions in LEI0258 microsatellite marker further define MHC haplotypes in the chicken. *Proc. 2006 Int. Soc. Anim. Genet.* p. 18

Miller, M. M., P. S. Wakenell, R. M. Goto, Y. Wang, and **R. L. Taylor, Jr.** 2006. MHC genetics in the suppression of tumors caused by a highly oncogenic avian Herpesvirus. *J. Immunol.* 176(Suppl. 1):S272

Wang, Y., R. M. Goto, P. S. Wakenell, **R. L. Taylor, Jr.**, and M. M. Miller. 2006. Expression, structure, localization, and allelic variability of the *BGI* locus in the chicken major histocompatibility complex. *Proc. 2006 Workshop on Chicken Genomics and Development.* Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, p. 42

*Wilkinson, N. G., W. E. Briles, R. T. Kopulos, L. M. Yates, and **R. L. Taylor, Jr.** 2006. Major histocompatibility (*B*) complex recombinant R13 antibody response against bovine red blood cells. *Poult. Sci.* 85(Suppl. 1):47

Miller, M. M., R. M. Goto, Y. Wang, P. S. Wakenell, and **R. L. Taylor, Jr.** 2005. Genetics of tumor suppression in the avian Marek's disease model. *Proc. Nat. Cancer Inst. Group meeting:* p.9

Taylor, R. L., Jr. 2005. Chicken genetic resources at the University of New Hampshire. *Proc. 2005 Workshop on Chicken Genomics and Development.* Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, p. 45

Taylor, R. L., Jr., W. E. Briles, and J. E. Fulton. 2005. Characterizing Rous sarcoma growth for major histocompatibility (*B*) complex haplotype *B61*. *Poult. Sci.* 84(Suppl. 1):26

Wakenell, P. S., M. M. Miller, and **R. L. Taylor, Jr.** 2005. Comparison of two ostensibly identical recombinant MHC haplotypes in fully congenic lines in their response to challenge with vvMD In: *A.A.A.P. Proceedings of the 142nd AVMA Annual Convention, July 17-20, Minneapolis, MN*

Fulton, J. E., H. Juul-Madsen, C. M. Ashwell, A. M. McCarron, and **R. L. Taylor, Jr.** 2004. Molecular genotype identification of the chicken major histocompatibility complex. *Proc. 2004 Int. Soc. Anim. Genet.* p. 13

*Schulten, E. S., W. E. Briles and **R. L. Taylor, Jr.** 2004. Rous sarcoma growth in lines congenic for major histocompatibility (*B*) complex recombinants. *Poult. Sci.* 83(Suppl. 1):147

Wakenell, P. S., C. Blackmore, M. M. Miller, W. E. Briles, and **R. L. Taylor, Jr.** 2004. Comparison of serum chemistry changes after Marek's disease infection between commercial broiler and inbred lines of chickens. *Proc. 2004 Int. Marek's disease Symposium* p. 27

*Medarova, Z. O., W. E. Briles and **R. L. Taylor, Jr.** 2003. *B* complex and alloantigen system *L* effects on resistance and immunity to cecal coccidiosis. *Poult. Sci.* 82(Suppl. 1):8

*Schulten, E. S., W. E. Briles and **R. L. Taylor, Jr.** 2003. Antibody response against sheep red blood cells in lines congenic for major histocompatibility (*B*) complex recombinant haplotypes. *Poult. Sci.* 82(Suppl. 1):8

*University of New Hampshire Oliver Hubbard Undergraduate Research Fellowship
University of New Hampshire Undergraduate Research Opportunities Program Advisee
2003 PSA Graduate Student Certificate of Excellence*

Taylor, R. L., Jr. 2003. Major histocompatibility (*B*) complex control of responses against Rous sarcomas. *Poult. Sci.* 82(Suppl. 1):3

*Medarova, Z. O., W. E. Briles and **R. L. Taylor, Jr.** 2002. Alloantigen system *L* affects antibody responses. *Poult. Sci.* 81(Suppl. 1):7

2002 PSA Graduate Student Certificate of Excellence

Taylor, R. L., Jr. and T. A. Tupick. 2002. Combinations of tumor regressor and progressor major histocompatibility (*B*) complex haplotypes exhibit gene dose effects on Rous sarcomas. *Poult. Sci.* 81(Suppl. 1):6

*University of New Hampshire Oliver Hubbard Undergraduate Research Fellowship
University of New Hampshire Undergraduate Research Opportunities Program Advisee*

Tupick, T. A. and **R. L. Taylor, Jr.** 2001. Major histocompatibility (*B*) complex gene dose effects on Rous sarcoma virus tumor growth. 10th University of New Hampshire COLSA Undergraduate Research Conference 2001 p.3

*University of New Hampshire Oliver Hubbard Undergraduate Research Fellowship
University of New Hampshire Undergraduate Research Opportunities Program Advisee*

Tupick, T. A. and **R. L. Taylor, Jr.** 2001. Major histocompatibility (*B*) complex gene dose effects on Rous sarcoma virus tumor growth. *Poult. Sci.* 80(Suppl. 1):129

*University of New Hampshire Oliver Hubbard Undergraduate Research Fellowship
University of New Hampshire Undergraduate Research Opportunities Program Advisee*

*Medarova, Z., W. E. Briles and **R. L. Taylor, Jr.** 2000. The effects of alloantigen system *L* on the fate of Rous sarcomas. *Proc.6th Avian Immunol. Res. Group* p. 50

*Senseney, H. L., H. Abplanalp, W. E. Briles and **R. L. Taylor, Jr.** 2000. Complementation between *BQ* and *B17* MHC haplotypes increases Rous sarcomas regression. *Proc.6th Avian Immunol. Res. Group* p. 49

Taylor, R. L., Jr. and W. E. Briles. 2000. Non-MHC alloantigen effects on resistance and susceptibility to *Eimeria tenella*. *Poult. Sci.* 79(Suppl. 1):39

*LePage, K. T. and **R. L. Taylor Jr.** 1999. Endogenous viral genes affect the outcome of Rous sarcomas. *Poult. Sci.* 78(Suppl. 1):49-50

Taylor, R. L., Jr. and W. E. Briles. 1999. Differential outcome of Rous sarcomas based on major histocompatibility (*B*) complex and non-MHC genes. *Poult. Sci.* 78(Suppl. 1):49

Delany, M.E., V. Gurel and **R. L. Taylor, Jr.** 1998. Analysis of rDNA genotypes and nucleolar phenotypes of *v-src* initiated tumors in 6.*B* congenic chickens. *Poult. Sci.* 77(Suppl. 1):5

*Karagiannides, I., M. S. Halpern and **R. L. Taylor, Jr.** 1998. Protection against *v-src* DNA tumor growth by a DNA construct containing *src*, *gag* and *env*. *Poult. Sci.* 77(Suppl. 1):40

*LePage, K. T., M. M. Miller, W. E. Briles and **R. L. Taylor Jr.** 1998. *Rfp-Y* genotype affects the fate of Rous sarcomas in *B2B5* chickens. *Poult. Sci.* 77(Suppl. 1):40

1998 PSA Graduate Student Certificate of Excellence

Cotter, P. F., H. Abplanalp and **R. L. Taylor, Jr.** 1997. *B*-complex (chicken MHC) associated immunity to *Salmonella enteritidis*. Proc. Int. Symp. Salmonella and Salmonellosis. Ploufragan, France, Page 281

Delany, M. E., V. Gurel, A. Krupkin and **R. L. Taylor, Jr.** 1997. Analysis of *v-src* initiated primary and metastatic tumors: Development of an in vivo model to understand the role of rDNA genotype in progression and regression of tumors. Third Annual Cancer Research Symposium. UC Davis Cancer Center, Sacramento, CA, Page 15

*LePage, K. T., **R. L. Taylor, Jr.**, F. Kopti and W. E. Briles. 1997. Non-MHC blood group effects on Rous sarcomas. Poul. Sci. 76(Suppl. 1):4

Taylor, R. L., Jr. and M. S. Halpern. 1997. Tumor growth and immunity to hybrid *v-src/c-src* DNA constructs. Poul. Sci. 76(Suppl. 1):4

*Ash, C. L., **R. L. Taylor, Jr.**, J. M. England and M. S. Halpern. 1996. Immunity to *v-src* DNA tumors protects against Rous sarcomas. Poul. Sci. 75(Suppl. 1):9

*LePage, K. T., **R. L. Taylor, Jr.**, J. M. England and M. S. Halpern. 1996. Non-MHC genes affect *v-src* DNA tumor growth and metastasis. Poul. Sci. 75(Suppl. 1):8

Miller, M. M. R. Goto, J. Ha, M. Afanassieff, **R. L. Taylor, Jr.**, S. E. Bloom, R. Zoorob, Charles Auffray and W. E. Briles. 1995. The two genetically independent clusters of Mhc genes in the chicken are located on the same microchromosome. Proc. Fourth Int. Workshop Mhc Evolution. St. Augustine, FL

McCorkle, F. M., J. A. Florian, J. Y. Wang, R. L. Uzarski, C. A. Roth and **R. L. Taylor, Jr.** 1995. Effects of continuous administration of serotonin and dopamine on immunity in chickens. Poul. Sci. 74(Suppl. 1):161

Taylor, R. L., Jr., J. M. England and M. S. Halpern. 1995. Immunity to *v-src* DNA tumors protects against *c-src* tumors. Poul. Sci. 74(Suppl. 1):59
Chair – Immunology Session

*LePage, K. T. and **R. L. Taylor, Jr.** 1994. Differential antibody titers to sheep red blood cells in aneuploid chickens. Poul. Sci. 73(Suppl. 1):107

McCorkle, F. M., D. May and **R. L. Taylor, Jr.** 1994. Effects of thyroid hormones on avian T-cell blastogenesis. Poul. Sci. 73(Suppl. 1):45

Taylor, R. L., Jr. and M. S. Halpern. 1994. *v-src* DNA tumor metastasis in 6.B congenic chickens. Poul. Sci. 73(Suppl. 1):43

Dix, M. C. and **R. L. Taylor, Jr.** 1993. Antibody response to sheep red blood cells and *Brucella abortus* in 6.B congenic chickens. University of New Hampshire COLSA Undergraduate Research Conference
University of New Hampshire Oliver Hubbard Undergraduate Research Fellowship

Schat, K. A. and **R. L. Taylor, Jr.** 1993. Marek's disease resistance in MHC-recombinant strains of chickens. Proc. 6th Northeastern Conf. Avian Dis. Newark, DE p. 13

Schat, K. A. and **R. L. Taylor, Jr.** 1993. Marek's disease resistance in MHC-recombinant strains of chickens. Poul. Sci. 72(Suppl. 1):91

Taylor, R. L., Jr. and M. S. Halpern. 1993. Immunity to *v-src* DNA tumors is controlled by the major histocompatibility (*B*) complex. Poul. Sci. 72(Suppl. 1):50

Benjamin, W. H., Jr., P. D. Hall and **R. L. Taylor, Jr.** 1992. Growth characteristics of *Salmonella enteritidis* in chicks of susceptible and resistant lines. Proc. Am. Soc. Microbiol. p. 55

McCorkle, F. M. and **R. L. Taylor, Jr.** 1992. Biogenic amines regulate avian immunity. Poult. Sci. 71(Suppl. 1):106

Qureshi, M. A. and **R. L. Taylor, Jr.** 1992. Analysis of macrophage functions in 6.B congenic chicken lines. Poult. Sci. 71(Suppl. 1):11

Silver, M. P., P. F. Cotter and **R. L. Taylor, Jr.** 1992. Agglutination of chicken RBC's and hemadsorption to CEF's by seed extracts. Poult. Sci. 71(Suppl. 1):58

White, E. C., W. E. Briles, R. W. Briles and **R. L. Taylor, Jr.** 1992. Response of six major histocompatibility (*B*) complex recombinant haplotypes to Rous sarcomas. Poult. Sci. 71(Suppl. 1):11

University of New Hampshire Undergraduate Research Opportunities Program Advisee

Taylor, R. L., Jr., R. E. Austic and R. R. Dietert. 1991. Dietary arginine supplementation influences Rous sarcoma growth in a major histocompatibility (*B*) complex progressor genotype. Faseb J. 5:A929

Taylor, R. L., Jr., M. Halpern and D. L. Ewert. 1991. Major histocompatibility (*B*) complex control of *v-src* DNA tumor outcome. Poult. Sci. 70(Suppl. 1):119

*Bombara, C. J. and **R. L. Taylor, Jr.** 1990. Signal transduction events in chicken IL-1 production. Poult. Sci. 69(Suppl. 1):21

McCorkle, F. M. and **R. L. Taylor, Jr.** 1990. Continuous administration of dopamine alters cellular immunity in chickens. Poult. Sci. 69(Suppl. 1):89

Murphy, J., J. Klinger, **R. L. Taylor, Jr.** and P. Cotter. 1990. DNA hybridization methods for Salmonella detection in chickens. Poult. Sci. 69(Suppl. 1):98

Jabe, J. M., F. M. McCorkle and **R. L. Taylor, Jr.** 1989. Biogenic amines affect IgM and IgG antibody to BSA in chickens. Poult. Sci. 68(Suppl. 1):71

McCorkle, F. M. and **R. L. Taylor, Jr.** 1989. Continuous administration of 5-hydroxytryptamine alters cellular immunity in chickens. Poult. Sci. 68(Suppl. 1):91

Murphy, J., J. Klinger, P. F. Cotter and **R. L. Taylor, Jr.** 1989. Conventional vs. DNA hybridization methods for Salmonella detection in chickens. Poult. Sci. 68(Suppl. 1):102

Murphy, J., J. Klinger, P. F. Cotter and **R. L. Taylor, Jr.** 1989. A comparison of conventional vs. a DNA hybridization method for the detection of Salmonella in hens and eggs. Proc. Int. Symposium: Colonization Control of Human Bacterial Pathogens in Poultry.

Taylor, R. L., Jr., *N. Lukacs, W. E. Briles and R. W. Briles. 1989. Response of major histocompatibility (*B*) complex haplotypes *B22*, *B26* and *B30* to Rous sarcomas. Poult. Sci. 68(Suppl. 1):146

Cotter, P. F., **R. L. Taylor, Jr.** and T. L. Wing. 1988. Genetic analysis of the Staphylococcal wattle reaction. Poult. Sci. 67(Suppl. 1):70

Denno, K., F. M. McCorkle, and **R. L. Taylor, Jr.** 1988. Catecholamine effects on IgM and IgG plaque-forming cells in UNH-105 chickens. Poult. Sci. 67(Suppl. 1):75

- Garrison, K., T. Slater, L. Iciek, F. M. McCorkle, and **R. L. Taylor, Jr.** 1988. Bursal cells transfer and monoamine effects on plaque-forming cell response in chickens. *Poult. Sci.* 67(Suppl. 1):88
- Jabe, J. M., F. M. McCorkle and **R. L. Taylor, Jr.** 1988. Effects of serotonin and dopamine on BSA antibody production in chickens as measured by ELISA. *Poult. Sci.* 67(Suppl. 1):100
- McCorkle, F. M., K. Denno, M. Jabe and **R. L. Taylor, Jr.** 1988. Monoamines alter *in vitro* migration of chicken leukocytes. *Poult. Sci.* 67(Suppl. 1):116
- Taylor, R. L., Jr.** and S. C. Vincent. 1988. Virus dilution affects the anti-Rous sarcomas of progressor but not regressor major histocompatibility (*B*) complex genotypes. *Poult. Sci.* 67(Suppl. 1):164
University of New Hampshire Oliver Hubbard Undergraduate Research Fellowship
- Clare, R. A., **R. L. Taylor, Jr.**, R. G. Strout and H. D. Danforth. 1987. Differential immunity to recombinant *E. tenella* protein in 6.B congenic chickens. *Poult. Sci.* 66(Suppl. 1):83
- Cotter, P. F. and **R. L. Taylor, Jr.** 1987. *Staphylococcus aureus* carriage in commercial layers. *Poult. Sci.* 66 (Suppl. 1):86
- Cotter, P. F. and **R. L. Taylor, Jr.** 1987. Characteristics of poultry Staphylococci including pathogenicity. *Proc. Northeast Branch Am. Soc. Microbiol.*
- *Lukacs, N., F. M. McCorkle and **R. L. Taylor, Jr.** 1987. Suppression of the phytohemagglutinin wattle response by biogenic amines. *Poult. Sci.* 66(Suppl. 1):135
- Taylor, R. L., Jr.**, P. F. Cotter, T. L. Wing and W. E. Briles. 1987. Major histocompatibility (*B*) complex and sex effects on the phytohemagglutinin wattle response. *Poult. Sci.* 66(Suppl. 1):184
Chair – Immunology Session
- Clare, R. A., **R. L. Taylor, Jr.**, R. G. Strout and W. E. Briles. 1986. Characterization of resistance/susceptibility to *Eimeria tenella* among six *B* complex (MHC) recombinant haplotypes. *Poult. Sci.* 65(Suppl. 1):26
- Cotter, P. F., **R. L. Taylor, Jr.**, T. L. Wing and W. E. Briles. 1986. *B* complex (MHC) associated differences in the delayed wattle reaction to Staphylococcal antigen. *Poult. Sci.* 65(Suppl. 1):28
- Gray, R., F. M. McCorkle and **R. L. Taylor, Jr.** 1986. Effect of serotonin on plaque-forming cells in chickens. *Poult. Sci.* 65(Suppl. 1):50
- McCorkle, F. M., R. Gray, N. Lukacs and **R. L. Taylor, Jr.** 1986. Effect of dopamine on plaque-forming cells and delayed hypersensitivity in chickens. *Proc. 6th Int. Cong. Immunol.* p. 476
- McCorkle, F. M., N. Lukacs and **R. L. Taylor, Jr.** 1986. Effect of serotonin on delayed hypersensitivity in chickens. *Poult. Sci.* 65(Suppl. 1):90
- Taylor, R. L., Jr.**, R. A. Clare and W. E. Briles. 1986. Anti-Rous sarcoma response of *B* complex (MHC) haplotypes *B23*, *B24* and *B30*. *Poult. Sci.* 65(Suppl. 1):134
- Clare R. A., R. G. Strout and **R. L. Taylor, Jr.** 1985. *B* (MHC) genotype effects on immunity to *Eimeria tenella* (coccidia). *Poult. Sci.* 64(Suppl. 1):81
- Clare, R. A., R. G. Strout and **R. L. Taylor, Jr.** 1985. Immunity to *Eimeria tenella*: Differential effects of *B* (MHC) genotype and immunizing dose. *Proc. Ga. Coccidiosis Conf.* p.6

Clare R. A., R. G. Strout and **R. L. Taylor, Jr.** 1985. Immunity to *Eimeria tenella* determined by immunizing dose and host line. *Proc. Am. Soc. Parasitol.* 60:55

Taylor, R. L., Jr., R. G. Strout, R. A. Clare and M. A. Burger. 1985. Pathogenesis of *Eimeria tenella* as influenced by silica injection. *Poult. Sci.* 64(Suppl. 1):188

Taylor, R. L., Jr. and G. E. Rodriguez. 1984. Angiotensin-converting enzyme and lysozyme in twins. *Am. Soc. Microbiol. Abstr.* 84:72
Co-Chair – Clinical Immunology Session

Taylor, R. L., Jr. and G. E. Rodriguez. 1984. Angiotensin-converting enzyme and lysozyme concentrations in twins. *Proc. 10th Int. Conf. Sarcoidosis.* 10:59

Taylor, R. L., Jr. and G. E. Rodriguez. 1983. Chronic granulomatous disease in a female. *Pediat. Res.* 17:261A

Taylor, R. L., Jr. and G. E. Rodriguez. 1983. Evaluation of T cell immunodeficiency and *in vitro* response to thymosin. *Pediat. Res.* 17:261A

Taylor, R. L., Jr., I. Olah and B. Glick. 1983. Ascites formation in chickens after carbon injection. *Poult. Sci.* 62:1511

Taylor, R. L., Jr., I. Olah and B. Glick. 1983. Ascites formation in chickens triggered by RES overload. *Va. J. Sci.* 34:194

Olah, I., B. Glick and **R. L. Taylor, Jr.** 1981. Antigen trapping cells are associated with the ellipsoid of the chicken's spleen. *Reticuloendothel. Soc. Proc.* 18:6a

Taylor, R. L., Jr. and B. Glick. 1981. Pituitary and testicular activity in male New Hampshire chickens following embryonic exposure to testosterone propionate. *Poult. Sci.* 60:1743

Taylor, R. L., Jr. and B. Glick. 1982. Pituitary and testicular activity in chickens after embryonic testosterone treatment. *Fed. Proc.* 41:986

McCorkle, F., **R. Taylor**, D. Martin and B. Glick. 1980. The effect of permethrin on the immune response of chickens. *Poult. Sci.* 59:1568

Taylor, R. L., Jr. and B. Glick. 1980. Corticosterone and serum protein levels in male bursectomized New Hampshire chickens. *Poult. Sci.* 59:1666

Blevins, W. T., E. J. Cox and **R. L. Taylor, Jr.** 1979. Resistance of *Chromobacterium violaceum* to beta-lactam antibiotics. *Am. Soc. Microbiol. Abstr.* 79:321

McCorkle, F., **R. Taylor**, D. Martin, R. Stinson, E. Day and B. Glick. 1979. Effects of MSMA and DSMA on the immune response in chicks. *Poult. Sci.* 58:1080

Martin, D., F. McCorkle, **R. Taylor** and B. Glick. 1979. The effect of fenvalerate on the immune response of the chicken. *Poult. Sci.* 58:1082

Stinson, R., F. McCorkle, M. Mashaly, **R. Taylor**, D. Martin and B. Glick. 1979. Effects of continuous lighting on cell-mediated immunity in the chicken. *Poult. Sci.* 58:1112

Taylor, R., F. McCorkle, D. Martin and B. Glick. 1979. The effect of trifluralin on the immune response of the chicken. *Poult. Sci.* 58:1115

Taylor, R., F. McCorkle, R. Stinson, E. Day and B. Glick. 1978. Effects of a megalevel of vitamin C on the immune response of the chicken. *Am. Zool.* 18:641
Best Contributed Paper, American Society of Zoologists

Taylor, R. L., Jr. and W. T. Blevins. 1977. Antibiotic resistance in *Chromobacterium violaceum*. *Proc. Southeastern Branch Am. Soc. Microbiol.* 59:9

CONTACT INFORMATION

Division of Animal and Nutritional Sciences
West Virginia University
1194 Evansdale Dr.,
P.O. Box 6108
Morgantown, WV 26506
phone: 304-293-2000
mobile: 603-767-6261
fax: 304-293-2232
bob.taylor@mail.wvu.edu

REFERENCES

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1/4/22