

CURRICULUM VITAE

E. DAVID PEEBLES

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EDUCATION

Doctor of Philosophy - Physiology, May 1986

North Carolina State University, Dept. of Poultry Science, Raleigh, NC, 2/82-12/85.
Advisor: Dr. John T. Brake
GPA: 3.82
Minor: Poultry Science
Dissertation: Peebles, E. David, 1986. Factors affecting broiler hatching egg production.

Master of Arts - Biology, December 1981

College of William and Mary, Dept. of Biology, Williamsburg, VA, 9/79-12/81.
Advisor: Dr. Eric L. Bradley
GPA: 3.56
Thesis: Peebles, E. D., 1981. The relationship of serum thyroxine to the reproductive capabilities of prairie deermice from laboratory populations.

Bachelor of Science - Marine Biology, May 1979

University of South Carolina, Dept. of Marine Science, Columbia, SC, 1/76-5/79.
Cum Laude

College, Secondary and Primary Education

Colorado State University, Ft. Collins, CO, 9/74-12/75.
Thomas Jefferson High School, Denver, CO, diploma with honors.
Longmont Junior High School, Longmont, CO.
Southern Hills Junior High School, Boulder, CO.

EXPERIENCE

Non-Academic Positions Held Prior to Faculty Appointment

Research Physiologist (Animal), USDA-ARS Post-Doctoral Fellowship, Southeast Poultry Research Laboratory, Genetics Unit; Adjunct Research Associate, University of Georgia, Athens, GA (1/86-12/87).

Faculty Experience

Assistant Professor (81% teaching, 19% research appointment), Department of Poultry Science, Mississippi State University, Mississippi State, MS, 1/88-7/93.

Associate Professor (82% teaching, 18% research appointment), Department of Poultry Science, Mississippi State University, Mississippi State, MS, 7/93-7/98.

Tenure granted by Mississippi State University, 8/93-present.

Level I appointment to the Graduate Faculty of Mississippi State University, 3/95-11/12.

Level I reappointment to the Graduate Faculty of Mississippi State University, 11/12-present.

Professor (82% teaching, 18% research appointment), Department of Poultry Science, Mississippi State University, Mississippi State, MS, 7/98-10/10.

Adjunct Professor appointment with the College of Veterinary Medicine (Poultry Research Program in the Department of Basic Sciences) at Mississippi State University, 10/98-present.

Professor (66% teaching, 34% research appointment), Department of Poultry Science, Mississippi State University, Mississippi State, MS, 11/10-5/11.

Professor and Interim Head (57% teaching, 34% research, 9% administration appointment), Department of Poultry Science, Mississippi State University, Mississippi State, MS, 5/11-2/12.

Professor (57% teaching, 43% research appointment), Department of Poultry Science, Mississippi State University, Mississippi State, MS, 2/12-10/12.

Professor (35% teaching, 54% research, 11% academic administration appointment), Department of Poultry Science, Mississippi State University, Mississippi State, MS, 10/12-3/19.

Professor (46% teaching, 54% research appointment), Department of Poultry Science, Mississippi State University, Mississippi State, MS, 3/19-present.

College and University Academic Committees

Mississippi State University Undergraduate Council, 1992-1997.

Mississippi State University Nuclear Energy/Laboratory and Radiological Safety Committee, 1996-2000.

Mississippi State University Adaptive Biotechnology Committee, 1997-2000.

Mississippi State University Science Advisory Committee, 1997-2000.

Mississippi State University, Mississippi Agricultural and Forestry Experiment Station Committee for Management of Funds Associated with Memorandum of Agreements (ad hoc), 1/1999-3/1999.

Mississippi State University College of Agriculture and Life Sciences Promotion and Tenure Committee, 10/00-6/04.

Mississippi State University, College of Agriculture and Life Sciences Graduate Committee (ad hoc), 4/2001-9/2001.

Mississippi State University Academic Review Board, 2001-2003.

Member of Mississippi State University 2006 Fulbright Summer Pre-Academic Program Committee, 1/2006-8/2006.
 Mississippi State University Graduate Student Association Doctoral and Master's Research Assistant of the Year Screening Committee, 2003-2008, 2010.
 Mississippi State University Hazardous Waste Management Committee, 2000-2009.
 Mississippi State University Radiological, Chemical, and Laboratory Safety Committee, 2000-2003.
 Mississippi State University Committee on Courses and Curricula, 3/2010-5/2013.
 Mississippi State University College of Agriculture and Life Sciences Committee on Courses and Curricula, 8/2012-7/2013.
 Mississippi State University Ethics Review Committee (ad hoc), 10/2012-12/2012.
 Mississippi State University, College of Agriculture and Life Sciences and Mississippi Agricultural and Forestry Experiment Station Promotion and Tenure Committee (Co-Chair), 9/15/20-12/15/20.

Administrative Experience

Member of Membership Committee for the Poultry Science Association (1993-1996)
 Chairman of Resolutions Committee for the Southern Poultry Science Society (1995)
 Coordinator of Interdisciplinary Genetics Graduate Program, Mississippi State University, 9/89-9/10.
 Vice-chairman of Southern Regional Poultry Breeding Project (S-233; DC 97-07), 10/95-9/97.
 Chairman of Southern Regional Poultry Breeding Project (S-233; DC 97-07), 10/97-9/99.
 Associate Journal Editor for *Poultry Science*, 8/97-7/00, 8/01-7/04, 8/04-7/07.
 Member of Editorial/Review Board for the *Journal of Applied Poultry Research*, 8/01-present.
 Subject or Section Editor (Breeding and Hatcheries section) for the *Journal of Applied Poultry Research*, 7/12-7/16.
 Coordinator of Poultry Science (Mississippi State University Poultry Science Department and CVM, USDA-SCPRL, and state poultry industry) seminar series, 3/00-5/03.
 Vice-chair of the Agriculture and Plant Science Division of the Mississippi Academy of Sciences, 2/10-2/11.
 Member of Poultry Science Association Resolutions Committee, 2007-2010.
 Chair of Poultry Science Association Resolutions Committee, 2010-2013.
 Member of Southern Poultry Science Society Resolutions Committee, 2012-2013.
 Chair of the Agriculture and Plant Science Division of the Mississippi Academy of Sciences, 2/11-2/12.
 Professor and Interim Head of the Mississippi State University Poultry Science Department, 5/16/11-2/05/12.
 Member of the Mississippi Poultry Association Board of Directors (5/16/11-2/05/12).
 Member of the Mississippi Board of Animal Health (5/16/11-2/05/12).
 Member of the United States Poultry and Egg Association Poultry Science Education Funding Committee (5/16/11-2/05/12).
 Member of the United States Poultry and Egg Association Harold E. Ford Foundation Board of Directors (5/16/11-2/05/12).
 Member of the Mississippi Poultry Association Research and Education Committee (1/16/12-1/16/14).
 Member of Poultry Science Association Membership/Professional Development Committee, 2013-2016.
 Member of Poultry Science Association Constitution Committee (7/29/15-7/28/16).
 Member (Director-at-Large #1) of Poultry Science Association Board of Directors (7/29/15-7/25/18).

Poultry Science Association Board of Directors Liaison to the following award committees:
 Hy-Line International Research Award (each year)/PSA Early Achievement Award for Research (even years), and National Turkey Federation Research Award (even years)/Maple Leaf Farms Duck Research Award (odd years) (7/29/15-7/28/18).

Poultry Science Association (PSA) Board of Directors Liaison to the Committee on Environmental Quality (7/29/16-7/28/17).

Co-Organizer and Co-Chair of 2016 PSA Annual Meeting symposium entitled “Avian Embryo Nutrition and Incubation”.

Member of Poultry Science Association American Egg Board and Hy-Line International Research Award committees (7/29/15-7/28/16).

Member of Poultry Science Association sub-committee to evaluate poster guidelines and abstract submission and review processes for PSA annual conferences (6/12/17-7/7/17).

Member of Strategic Plan Progress Committee for the Poultry Science Association (1/16/18-7/26/20).

Service as Champion for sub-objective entitled “Establish effective working relations with key global poultry organizations by 2020”, of Poultry Science Association Strategic Plan Initiative (4/24/18-7/26/20).

Teaching Experience

Graduate Teaching Assistant, Department of Biology, College of William and Mary, 9/79-5/81.
 Instructor for Introductory Biology and Zoology Laboratories.

Guest Lecturer and Laboratory Instructor for courses in: Avian Physiology [PO 405, North Carolina State University (NCSU); PS 601, University of Georgia (UGA)] and Incubation and Hatchery Management (PO 422, NCSU).

Instructor for Genetics courses: Genetics I [GNS/BIO/PO 3103; 1/88-present at Main (Starkville) campus, and 8/29/88-12/16/88 at Meridian Center campus], and Genetics II (GNS 6102; 8/89-12/89 at Main campus), Mississippi State University (MSU).

Advising Experience

Major Advisor for Masters-level Graduate Students-29

Eric H. Miller (Major: Poultry Science; Minor: Physiology) (elected as graduate initiate to Gamma Sigma Delta)

Mickey A. Latour (elected as associate member to Sigma Xi)

James D. Cheaney (elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi)

Douglas E. Link (elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi)

Tomas Pansky (Major: Poultry Science; Minor: Poultry Physiology) (elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi; recipient of 1996 MSU Masters Level Outstanding International Graduate Student Award)

Charles D. Zumwalt (Major: Poultry Science; Minor: Agricultural Economics) (elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi; recipient of 1994 Maurice Stein Graduate Student Fellowship)

Steven M. Doyle (elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi)

Abrani Sulaiman (elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi)

Christopher W. Gardner (elected as associate member to Sigma Xi)

Matthew R. Burnham (elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi)

Melanie K. S. Jones (Major: Poultry Science; Minor: Physiology and Biological Sciences) (elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi; recipient of 2001 Sigma Xi Graduate Student Award, and recipient of 2001 Master's level MSU Graduate Student Association Teaching Assistant of the Year Award)

Tiffany N. Cannon (Genetics major; non-thesis option) (elected as graduate initiate to Gamma Sigma Delta)

Evelina Y. Basenko [secretary of MSU Graduate Student Association (2002-2003); elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi; and recipient of 2003 Master's level MSU Graduate Student Association Teaching Assistant of the Year Award]

Anne M. Vance (Major: Agriculture; Concentration: Poultry Science) (elected as associate member to Sigma Xi)

Jarred P. Tanksley (Major: Poultry Science)

Sang Won Park (elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi; and recipient of 2005 Masters level MSU Graduate Student Association Research Assistant of the Year Award)

Shelia B. Cagle (elected as graduate initiate to Gamma Sigma Delta; and recipient of 2006 Master's level MSU Graduate Student Association Teaching Assistant of the Year Award)

Kristin A. Viscione (elected as associate member to Sigma Xi)

Crystal L. Allgood (elected as graduate initiate to Gamma Sigma Delta)

Brenna M. McGruder (elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi; recipient of 2008 Sigma Xi Master's level Graduate Student Award)

Madhusudhanan M. Keralapurath (elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi)

Anberitha T. Matthews (elected as associate member to Sigma Xi, and recipient of 2010 Sigma Xi Master's level Graduate Student Award)

Adebayo O. Sokale (elected as graduate initiate to Gamma Sigma Delta)

Abiodun Bello (Major: Agriculture; Concentration: Poultry Science)

Opeyemi Christiana Olojede (elected as undergraduate and graduate initiate to Gamma Sigma Delta)

Oluwaseun A. Durojaye

Peter Olawale Ishola

Ayoub Mousstaaid

Lauren L. Lindsey (recipient of 2020 College of Arts and Sciences Outstanding Teaching Assistant Award)

Minor Advisor for Masters-level Graduate Students-1

Lisa M. Zegment-Reed (Major: Genetics)

Major Advisor for Doctoral-level Graduate Students-8

- Mickey A. Latour (elected as graduate initiate to Gamma Sigma Delta; and recipient of 1994 Sigma Xi Graduate Student Award)
- Matthew R. Burnham (Major: Physiology; Minors: Statistics and Biology) [president of MSU Graduate Student Association (1999-2000); senator and elections committee chair of MSU Graduate Student Association (2001-2002); recipient of 2000 and 2002 Sigma Xi Doctoral Level Graduate Student Award; and recipient of MSU Graduate Student Association 2000 Outstanding Leadership Award, 2002 Doctoral level Research Assistant of the Year Award, and 2002 Member of the Year Award]
- Radhakrishna Pulikanti (elected as graduate initiate to Gamma Sigma Delta and as associate member to Sigma Xi; recipient of 2011 GSA Doctoral Level Research Assistant of the Year Award)
- Roymon Jacob (elected as graduate initiate to Gamma Sigma Delta, associate member to Sigma Xi, and as graduate initiate to Phi Kappa Phi; recipient of 2013 Gamma Sigma Delta Doctoral Level Graduate Scholarship Award)
- Adebayo O. Sokale (elected as graduate initiate to Gamma Sigma Delta)
- Katie Elaine Collins (recipient of the 2015-2016 Graduate Teaching Award of Merit (Doctoral Category) issued by the Mississippi State University College of Agriculture and Life Sciences, in association with the North American Colleges and Teachers of Agriculture.
- Seyedabolghasem Fatemi
Abdulmohsen H. Alqhtani

Hosted Postdoctoral Scientists and Visiting Scholars-3

- Lumu Li (Visiting Scholar; Anhui Agricultural University, Hefei, China) 5/95-10/95
- Wei Zhai (Postdoctoral Scientist; Purdue University) 8/09-7/11
- Hai-Jun Zhang (Visiting Scholar; Chinese Academy of Agricultural Sciences, Beijing, China) 8/05/16-8/04/17

Undergraduate Directed Individual Study (DIS), Honors Program, and High School Student Projects-19

- Kathy M. Vaughn (DIS) 1/92-12/93
- S. Elaine Broome (DIS) 1/93-7/93
- Brian Stevens (DIS) 8/94-5/95
- Lekishia Moffett (MSMS) 8/94-5/95
- Mariam Tahai (SHS) 1/95-5/95
- Sherman Miller (DIS) 1/96-7/96
- Erica Snowden (Honors Program) 8/99-12/99
- Dale D. Pillow (Honors Program) 8/03-12/03
- Christine L. Wolgemuth (Honors Program) 1/07-5/07
- Emily C. Williams (Honors Program) 8/09-12/09
- Abiodun Bello (Honors Program) 5/10-8/10
- Ivey M. Gibson (Honors Program) 8/11-12/11
- Olatunde Olapeju Olaitan (DIS) 1/13-5/13
- Anna Carolina Ferreira Caixeta (DIS) 8/14-12/14

Chrysta Beck (Honors Program) 8/14-3/15
 Lauren L. Lindsey (Honors Program DIS) 1/18-5/18
 Ethan B. Dehart (DIS) 1/19-5/19
 Nathaniel Miller (DIS) 1/20-5/20
 Noelle Forcier (DIS) 1/21-05/21

Undergraduate Student Internships-3

Soraya Silva (2/11-2/12)
 Vanusa de Souza Godoy (2/12-2/13)
 Nayara de Oliveira Pelici (2/13-2/14)

Graduate Student Internships-1

Tiago Birro Oliveira (12/13-12/14)

Graduate Directed Individual Study (DIS) Projects-8

Janice N. Mitchell 5/02-6/02
 Anne M. Vance 8/02-12/02
 Jarred P. Tanksley 8/03-12/03
 Shelia B. Cagle 7/05-8/05
 Kristin A. Viscione 8/06-12/06
 LaShonda S. Robertson 7/08-8/08
 Anberitha T. Matthews 1/09-5/09, 8/09-12/09
 Oluwaseun A. Durojaye (5/16-6/16)

Graduate Committee Memberships-54

Philip A. Stayer [Masters: (Non-Thesis) Food Animal (CVM-VMS)]
 Justin L. Robbins (Masters: Poultry Science)
 Mehmet Karaca (Masters: Genetics)
 John E. Huston (Masters: Genetics)
 Chad L. Stocks (Masters: Genetics)
 Yusrizal (Masters: Poultry Science)
 Trent Smith (Masters: Genetics)
 Clinton R. Young (Masters: Genetics)
 David D. Smith [Masters: (Non-Thesis) Food Animal (CVM-VMS)]
 Amanda Masholie (Masters: Genetics)
 Matthew M. Radde (Masters: Genetics)
 James E. Hood (Masters: Poultry Science)
 Ayse Gumus Karaca (Doctoral: Physiology)
 Holly M. Parker (Masters: Poultry Science)
 Holly M. Parker (Doctoral: Animal Physiology)
 Todd A. Parker (Doctoral: Biochemistry and Molecular Biology)
 Madhankumar Sathyamoorthy (Masters: Genetics)

Guei-Jr Liang (Masters: Genetics)
 Brian L. Taylor (Masters: Genetics)
 Monette F. Upshaw (Masters: Genetics)
 Phillip M. Vandevere (Masters: Genetics)
 John A. Etheridge (Masters: Genetics)
 Coesha A. Fairley (Masters: Genetics)
 James D. Wilbourn (Masters: Poultry Science)
 Scharidi J. Barber (Masters: Poultry Science)
 Alan J. Rodriques (Masters: Genetics)
 Lisa M. Ziment-Reed (Masters: Biology)
 Timothy A. Gardner (Masters: Genetics)
 Christopher M. Page (Masters: Poultry Science)
 Pradeep Kumar Reddy Dumpala (Masters: Poultry Science)
 Robert T. Martin (Masters: Genetics)
 Jessica L. Benoit (Masters: Agriculture-Poultry Science)
 LaShonda S. Robertson (Masters: Agricultural Life Sciences-Genetics)
 Ercan S. Unlu (Doctoral: Life Sciences-Genetics)
 Shernica L. Ferguson (Masters: Agricultural Life Sciences-Genetics)
 Lindsay M. Stevenson [Doctoral: Physiology (Auburn University)]
 Stacey N. Homen (Masters: Agriculture-Poultry Science)
 Xiaojun Wang (Masters: Agricultural Life Sciences-Genetics)
 Michael R. Dooley (Masters: Agriculture-Poultry Science)
 Kamilah E. Grant (Doctoral: Life Sciences-Genetics)
 Hui-Wen Tsai (Masters: Agricultural Life Sciences-Genetics)
 Leonel Mejia (Doctoral: Agricultural Sciences-Poultry Science)
 Charles J. Matyi (Doctoral: Molecular Biology)
 Derrick L. Everett (Doctoral: Agricultural Sciences-Poultry Science)
 Melissa D. Haines (Masters: Agriculture-Poultry Science) 7/12
 Xi Wang (Masters: Agriculture-Poultry Science) 5/14
 Priscila Santa Rosa (Masters: Agriculture-Poultry Science) 8/14
 Xi Wang (Doctoral: Agricultural Sciences-Poultry Science) 1/15-12/17
 Shailesh Gurung (Masters: Agriculture-Poultry Science) 12/15-8/17
 Reshma Ramachandran (Doctoral: Agricultural Sciences-Poultry Science) 12/15-5/18
 Kacey O'Donnell (Masters: Agriculture-Poultry Science) 8/16-present
 Misaki Cho (External Examiner) [Doctoral: Agricultural, Food and Nutritional Sciences Department in
 the Faculty of Agricultural, Life and Environmental Sciences (University of Alberta)] 1/17-
 8/17.
 Bo Zhang [(Masters) Major: Agriculture-Poultry Science; Minor: Statistics] 7/17-present
 Linan Ji (Doctoral: Agricultural Sciences-Poultry Science) 11/25/19-present

Research Experience

Member of S-289 Southern Regional (multi-state) Poultry Breeding Project, 10/99-9/04.
 Member of S-233 and DC 97-07 Southern Regional (multi-state) Poultry Breeding Project, 3/94-9/99.
 Research in Poultry Physiology, Poultry Science Department, Mississippi State University, 1/88-present.

Research Physiologist (Animal), USDA-ARS Postdoctoral Fellowship, Southeast Poultry Research Laboratory, Genetics Unit; Adjunct Research Associate, University of Georgia, Athens, GA, 1/86-12/87. Designed and conducted research on hormone-growth mechanisms in broilers and Japanese quail.

Graduate Research Assistant, Department of Poultry Science, North Carolina State University, 2/82-6/85. Conducted research in broiler breeder management, reproductive and environmental physiology, eggshell quality and incubation technology.

Thesis Research, Department of Biology, College of William and Mary, 9/79-12/81. Conducted research in endocrine and reproductive physiology of prairie deer mice.

Undergraduate Research Projects, Department of Marine Science, University of South Carolina, 1/76-5/79. Research participant in marine invertebrate and vertebrate physiology.

Funding

Funded Research Grants

Hatch fund project (MIS-2969): 9/1/88-8/31/93, "The effects of various factors of maternal physiology on growth, hatchability and eggshell quality in poultry." (PI).

Pioneer, Inc: 5/14/91-6/28/91, "Floor pen efficiency study using direct-fed microbial cultures on broiler performance," \$2,500.00 [coll. w/Dr. J. D. Brake (PI)].

Smithkline Beecham, Inc: 2/28/92-4/10/92, "The effects of Virginiamycin in withdrawal rations," \$7,350.00 [coll. w/Dr. J. D. Brake (PI)].

USDA-ARS doctoral research assistantship: 6/1/92-5/31/95, "Maternal dietary fat transfer and utilization in the embryonic and neonatal broiler chicken," \$16,500.00 [coll. w/Dr. J. D. May (PI)].

Southeastern Poultry and Egg Association Research Grant: 1/11/93-1/11/95, "Broiler breeder hen nutrition and its relationship to egg and chick quality", \$34,340.00 (PI).

Hatch fund project (MIS-2985; MIS-322010): 2/1/93-1/31/99, "Early post-hatch nutrition and its relationship to the nutrition of the hen." (PI).

Regional (multi-state; S-233 and DC-97-07)/Hatch (MIS-2990; MIS-329020) fund project: 4/3/94-10/31/99, "Genetic relationships to growth and reproduction in diverse poultry populations." (PI).

Eka Nobel, Inc.: 10/1/95-12/1/95, "Use of hydrogen peroxide in broiler drinking water", \$14,000.00 [coll. w/Dr. T. C. Chen (PI)].

U.S. Poultry and Egg Association Research Grant: 1/96-12/97, "Effects of incubational environment on lipid metabolism and embryogenesis in broiler hatching eggs", \$75,167.00. (PI).

Grant from Indonesian Government through the Professional Human Resources Development Project, for Abrani Sulaiman, 8/95-12/96, \$1,185.37 (PI).

Hatch fund project (MISV-2993): 9/15/96-12/31/01, Breeder Hatcheries Project-"Broiler chicken mortality and gluconeogenesis at hen production onset." [coll. w/Drs. R. W. Keirs and D. L. Magee (Keirs, PI)].

MSU-MAFES FY1999 Special Research Initiative Research Grant: 1/99-12/99, "Use of a crude goat serum fraction to modulate the immune response to infectious diseases in poultry," \$16,000.00 [coll. w/Dr. K. O. Willeford (PI)].

Regional (multi-state; S-289)/Hatch (MIS-329090) fund project: 10/1/99-9/30/04, "Factors associated with genetic and phenotypic variation in poultry: Molecular to populational." (PI).

USDA-ARS Research Grant: SCA # 58-6406-9-016, 7/1/99-4/30/04, "Determination of lipoprotein profiles of F strain MG vaccinated chickens," \$122,580.00 (PI).

Hatch fund project (MIS-321010): 10/1/99-9/30/04, "*Mycoplasma gallisepticum* infection, immunity, and blood and organ characteristics in commercial laying hens." (PI).

MSU-MAFES FY2000 Special Research Initiative Program Grant: 1/00-12/00, "Elucidating the immunoactivity of a goat serum peptide," \$18,000.00 [coll. w/Dr. K. O. Willeford (PI)].

Zinpro Corp.: 8/1/00-8/1/01, "Impact of dietary zinc source in broiler breeders on reproductive traits and subsequent chick viability," \$35,000.00 [coll. w/Dr. M. T. Kidd (PI)].

Lonzagroup Corp.: 5/1/03-12/31/03, "Impact of L-carnitine on male and female broiler breeder performance," \$40,000.00 [coll. w/ Dr. M. T. Kidd (PI)], actual funds received for collaboration, \$10,000.00.

USDA-ARS Research Grant: SCA # 58-6406-4-0102, 9/27/04-7/31/09, "Determination of eggshell micro-structural characteristics and associated physiological profiles in MG-vaccinated egg-laying chickens," \$47,993.00 (PI).

Hatch fund project (MIS-321030): 10/1/04-9/30/09, "Determination of eggshell micro-structural characteristics and associated physiological profiles in MG-vaccinated egg-laying chickens." (PI).

Hatch fund project (MIS-322210): 11/1/04-10/31/09, "Relationships among physiological parameters and their critical levels in broiler embryos and chicks across incubation and brooding." (PI).

USDA-ARS Research Grant: SCA # 58-6406-6-0030, 3/23/06-3/22/07, "Dietary support effects on eggshell microstructure and performance subsequent to pullet and early lay period MG vaccination in egg-laying chickens," \$13,000.00 (PI).

MSU-CALS doctoral research assistantship: 6/1/07-5/31/11, "Relationships among physiological parameters and their critical levels in broiler embryos and chicks across incubation and brooding," \$20,000.00/year (4 year total = \$80,000.00) (PI).

- MSU-MAFES FY2007 Strategic Research Initiative Program Grant (MIS: 322210): 1/11/07-12/31/07, "Use of practical metabolic indices across incubation and brooding in establishing the optimal performance of early nutrient restricted offspring from young broiler breeders," \$49,408.00 (PI).
- AviTech, LLC: 10/29/07, AviTech IntelliJect in ovo injection system, \$285,000.00; AviTech IntelliJect system maintenance contract (mechanical and technical support), \$25,000.00 per annum; AviTech ManualJect in ovo injection system, \$100,000.00; AviTech IntelliSpray unit, \$15,000.00; AviTech IntelliLab unit, \$15,000.00; Jamesway 5,040-egg capacity incubator unit, \$12,664.00; and Jamesway 5,040-egg capacity hatcher unit, \$11,934.00 (PI).
- Phibro Animal Health Corp.: 7/7/09-7/6/10, "Effects of uninterrupted feeding of Nicarbazin from 0-28 days of age on male broiler liver glycogen concentrations," \$8,000.00 (PI).
- USDA-ARS Research Grant: SCA # 58-6406-9-434, 8/01/09-7/31/10, "Physiological effects of F-strain *Mycoplasma gallisepticum* (MG) in laying hens vaccinated with MG bacterin in combination with live TS-11 MG," \$27,317.00 (PI).
- MSU Shackouls Honors College Summer Undergraduate Research Fellowship for 2010: 5/1/10-8/31/10, undergraduate mentee, Abiodun Bello, received fellowship to conduct summer research project pertaining to commercial in ovo injection of compounds to enhance avian embryogenesis, \$2,000.00.
- USDA-ARS Research Grant: SCA # 58-6406-9-434 continuation, 8/01/10-7/31/11, "Physiological effects of F-strain *Mycoplasma gallisepticum* (MG) in laying hens vaccinated with MG bacterin in combination with live TS-11 MG," \$55,600.00 (PI).
- Phibro Animal Health Corp.: 7/7/10-7/6/11, "Associated blood glucose and liver glycogen concentration changes in broilers exhibiting post-traumatic stress due to the engorgement of feed containing Nicarbazin," \$7,438.00 (PI).
- Hatch fund project (MIS-322270): 10/1/10-9/30/15, "Effects of in ovo injection of metabolic compounds on hatchability and post-hatch chick performance." (PI).
- USDA-ARS Research Grant: SCA # 58-6406-9-434 continuation, 8/01/11-7/31/12, "Physiological effects of F-strain *Mycoplasma gallisepticum* (MG) in laying hens vaccinated with MG bacterin in combination with live TS-11 MG," \$76,449.00 (PI).
- Adisseo France S.A.S.: 11/1/12-11/30/14, Rhodimet Research Grant-"Effects of dietary methionine on meat quality and protein expression in skeletal muscle tissue of broilers," \$94,347.00 [coll. w/ Drs. W. Zhai and M. W. Schilling (Zhai, PI)].
- Pfizer Animal Health, Inc.: 9/17/12-10/31/12, "Floor pen study of broilers vaccinated for coccidiosis and treated with Bio-Cox or Monteban," \$8,200.00 (PI).
- Pfizer Animal Health, Inc.: 12/15/11-present, No cost lease, supply, and service agreement for Standard Inovoject CM 54 commercial egg injection machine, (PI).

- USDA-ARS Research Grant: SCA # 58-6406-9-434 continuation, 8/01/12-7/31/13, "Physiological effects of F-strain *Mycoplasma gallisepticum* (MG) in laying hens vaccinated with MG bacterin in combination with live TS-11 MG," \$68,912.00 (PI).
- Pfizer Animal Health, Inc.: 4/29/12-6/3/12, "Effects of in ovo injection of commercial coccidiosis vaccine (Inovocox EM-1) on embryonic and posthatch broiler performance," \$3,000.00 (PI).
- Zoetis Animal Health, Inc.: 6/20/13-8/22/13, "Comparison on performance of broilers *in ovo* or subcutaneous vaccinated with different processing times between hatch and placement," \$35,690.00 (PI).
- USDA-ARS Research Grant: SCA # 58-6406-9-434 continuation, 8/01/13-7/31/14, "Physiological effects of F-strain *Mycoplasma gallisepticum* (MG) in laying hens vaccinated with MG bacterin in combination with live TS-11 MG," \$63,393.00 (PI).
- Zoetis Animal Health, Inc.: 3/1/14-5/3/14, "Dosage effects and turn out times on oocyst localization, oocyst cycling, and performance characteristics of *in ovo* coccidiosis vaccinated broilers," \$4,000.00 (PI).
- USDA-ARS Research Grant: SCA # 58-6406-4-016, 8/05/14-8/04/15, "Alternative *Mycoplasma gallisepticum* (MG) vaccination regimens for enhancement of protection against field strain MG infections," \$70,000.00 (PI).
- USDA-ARS Research Grant: SCA # 58-6406-4-016 (Amendment 02), 8/05/15-8/04/16, MSU Award No. G00000951, "Alternative *Mycoplasma gallisepticum* (MG) vaccination regimens for enhancement of protection against field strain MG infections," \$70,000.00 (PI).
- NIFA Hatch fund project (MIS-322290): 1/2/12-12/31/14 (CO-PI), 1/1/15-1/2/17 (PI), "Use of nutrient, electrolyte, and stimulant combinations in commercial in ovo diluent to promote broiler growth."
- Mississippi Poultry Association Initiative for Poultry Industry Research Grant: MSU Grant No. G00001418, University Account No. 324311-013100-027000, 4/1/15-3/31/16, "Proving the concept that commercial in ovo delivery of beneficial (probiotic) bacteria positively impacts broiler performance," \$59,873.00 [coll. w/Drs. A. S. Kiess, C. D. McDaniel, and W. Zhai (Kiess, PI)].
- Chr. Hansen A/S Co.: Specific Memorandum of Agreement: MSU Grant No. G00001800, University Account No. 324348-013100-027000, 1/14/16-6/01/16, "Determining whether GalliPro Hatch can be delivered to broilers through commercial in ovo technology and the impact it has on offspring performance," \$78,699.00 [coll. w/Drs. A. S. Kiess, K. G. S. Wamsley, and C. D. McDaniel (Kiess, PI)].
- MSU-MAFES FY2016 Special Research Initiative Research Grant: 1/1/16-12/31/16, "Using probiotics to reduce antibiotic use in broiler production," \$49,600.00 [coll. w/X. Wang, and Drs. W. Zhai, Y. Farnell, A. S. Kiess, and K. G. S. Wamsley (Zhai, PI)].

- U.S. Poultry and Egg Association Research Grant: 1/1/16-12/31/17, "Euthanasia of recently hatched chicks and poults," \$75,000.00 [coll. w/Drs. M. Farnell, T. Tabler, R. Meyer, H. Olanrewaju, and Y. Farnell (M. Farnell, PI)].
- USDA-ARS Research Grant: SCA #58-6406-4-016 (Amendment 03), 8/05/16-6/30/17, "Alternative *Mycoplasma gallisepticum* (MG) vaccination regimens for enhancement of protection against field strain MG infections," \$67,961.00 (PI).
- USDA-ARS Research Grant: SCA #?, 4/01/17-3/31/18, NP101-Animal Production, "Improving efficiency of growth and nutrient utilization in heavy broilers using alternatives to antibiotic growth promoters," \$? (Investigator, 10 %).
- USDA-ARS Research Grant: SCA #58-6406-4-016 (Amendment 04), 7/01/17-8/04/17, "Alternative *Mycoplasma gallisepticum* (MG) vaccination regimens for enhancement of protection against field strain MG infections," \$81,988.67 (PI).
- Diamond V Mills, Inc.: Specific Memorandum of Agreement: MSU Grant No. G00002439, University Account No. 324446-013100-027000, 1/10/17-4/28/17, "Determination of efficacy of Diamond V Original XPC against field-strain *Mycoplasma gallisepticum* (MG) infection," \$33,989.40 (PI).
- NIFA Hatch fund project (MIS-329260; Accession Number: 1011797; DUNS Number: 028723844): 1/2/17-1/2/22, "Physiological responses of commercial layer chicken embryos and posthatch chicks to the *in ovo* vaccination of *Mycoplasma gallisepticum*." (PI).
- USDA-ARS Research Grant: SCA #58-6406-4-016 (Amendment 05), 8/05/17-8/04/18, "Alternative *Mycoplasma gallisepticum* (MG) vaccination regimens for enhancement of protection against field strain MG infections," \$67,829.00 (PI).
- USDA-ARS Research Grant: SCA #58-6406-4-016 (Amendment 06), 8/05/18-7/31/19, "Alternative *Mycoplasma gallisepticum* (MG) vaccination regimens for enhancement of protection against field strain MG infections," \$67,829.00 (PI).
- USDA-ARS Research Grant: SCA #58-6064-9-014, MSU Grant #G00004539, 7/31/19-7/30/24, "Performance and physiological characteristics of poultry vaccinated and/or challenged with avian pathogenic *Escherichia coli* (APEC)," \$72,674.00 (PI).
- USDA-ARS Research Grant: SCA #58-6064-9-016, MSU Grant #G00004547, 7/31/19-7/30/24, "Alternative *Mycoplasma gallisepticum* (MG) vaccination regimens for enhancement of protection against field strain MG infections," \$67,829.00 (PI).
- Diamond V Mills, Inc.: General Memorandum of Agreement: University Account No. 325049-013100-027000, 8/24/20, "Unrestricted gift in support of continued research efforts concerning *Mycoplasma* research in poultry," \$1,500.00 (E. D. Peebles, PI).
- Tyson Foods, Inc.: Donation (Marek's Disease Vaccine), \$146.00 (E. D. Peebles, PI).

Research Grant Applications

MSU Office of Research 1989 Research Initiation Program Grant: 1/1/89-12/31/89, "The effects of various factors of maternal physiology on growth, hatchability and eggshell quality in poultry," \$6,000.00 (E. David Peebles, PI). Not funded.

National Science Foundation Graduate Research Fellowships: 7/1/89-6/30/92, \$15,000.00/year (E. D. Peebles, PI). Not funded.

MSU-DAFVM, William M. White Special Projects Awards: 3/1/98-2/29/99, "Development of experimental methodologies for altering progeny sex ratios in poultry," \$3,000.00 [coll. Dr. Kenneth O. Willeford (E. D. Peebles, PI)]. Not funded.

MSU-MAFES FY2016 Special Research Initiative Research Grant: 1/1/16-12/31/16, "Cell-free molecular marker as a potential tool to determine the sex of a chicken embryo," \$50,000.00 (\$5,000.00 child account-Peebles) [coll. w/Drs. Y. Farnell, M. Farnell, T. Pechan, and W. Zhai (Y. Farnell, PI)]. Not funded.

MSU-MAFES FY2016 Special Research Initiative Research Grant: 1/1/16-12/31/16, "High efficiency scalable microenvironment incubation system for poultry," \$50,000.00 [coll. w/Drs. S. D. Filip To and C. D. McDaniel (S. D. Filip To, PI)]. Not funded.

MSU-MAFES FY2017 Special Research Initiative Research Grant: 1/1/17-12/31/17, "Improving egg hatching rate by inducing physiological responses during incubation using microenvironment techniques," \$50,000.00 [(coll. w/Drs. S. D. Filip To and C. D. McDaniel (S. D. Filip To, PI)]. Not funded.

U.S. Poultry and Egg Association Research Grant: 9/1/17-6/1/18, "Determination of pH differences between the sexes for use as a quick method to sex chicken embryos," \$12,027.39 [coll. w/Drs. K. E. C. Elliott and J. D. Evans (K. E. C. Elliott, PI)]. Not funded.

MSU-MAFES FY2020 Special Research Initiative Research Grant: 1/1/20-12/31/20, "Intervention strategies to regulate gut microbiota, lower oxidative stress, and reduce woody breast incidence in broilers," \$50,000.00 [(coll. w/Drs. W. Schilling, L. Zhang, W. Zhai, and X. Zhang (X. Zhang, PI)]. Not funded.

U.S. Poultry and Egg Association Research Grant: 8/31/20-12/31/20, "Evaluation of in-hatcher feeding of broiler chickens," \$49,225.29 [coll. w/Dr. K. E. C. Elliott (K. E. C. Elliott, PI)]. Not funded.

USDA NIFA AFRI Program Grant for Area Priority of Novel Foods and Innovative Manufacturing Technologies (Priority code-A1364): 1/1/20-12/31/22, "Metagenomic and proteomic approach to characterize woody breast myopathy in broilers and develop strategies to reduce woody breast incidence, \$499,997.00 [(coll. w/Drs. W. Schilling, X. Zhang, L. Zhang, and W. Zhai (W. Schilling, PI)]. Not funded.

USDA NIFA AFRI Program Grant for Area Priority of Animal Nutrition, Growth and Lactation (Priority code-A1231): 1/1/21-12/31/23, "Metagenomic and proteomic approach to characterize woody breast myopathy in broilers and develop strategies to reduce woody breast incidence, \$499,997.00 [(coll. w/Drs. W. Schilling, X. Zhang, L. Zhang, and W. Zhai (W. Schilling, PI)]. Not funded.

USDA NIFA AFRI Program Grant for Area Priority of Novel Foods and Innovative Manufacturing Technologies (Priority code-A1364): 1/1/21-12/31/23, "Metagenomic and proteomic approach to characterize woody breast myopathy in broilers and develop strategies to reduce woody breast incidence, \$499,997.00 [(coll. w/Drs. W. Schilling, X. Zhang, L. Zhang, and W. Zhai (W. Schilling, PI)]. In Review.

Research Grants in Preparation

Balchem Corp., Real Science Initiative: Specific Memorandum of Agreement: MSU Grant No. ?, University Account No. ?, 9/01/17-8/31/20, "*In ovo* and dietary feeding of organic minerals and ascorbic acid to reduce ambient ammonia, and to improve bone development as well as meat quality in broiler chickens" \$148,000.00 (CO-PI).

Funded Teaching Grants

MSU Otilie Schillig Special Teaching Projects grant: 3/96-12/96, "Computer assisted instruction for Genetics I class," \$1,865.00 (PI).

Funded Recruitment Grants

2008-2009 MSU Graduate Recruitment Assistance grant; 1/9/09, Grant was funded by the MSU Office of the Graduate School for travel to Alcorn State University for research seminar presentation and graduate recruitment purposes, \$350.00.

2012-2013 MSU Graduate Recruitment Assistance grant: 11/13/12-9/30/13, Grant entitled "Enhancing recruitment and retention in interdisciplinary field of genetics at Mississippi State University, \$1,000.00 [coll. w/Drs. E. Memili, A. Perkins, D. Ray, and T. Smith (Memili, PI)], was funded by the MSU Office of the Graduate School.

Funded Travel Grants

Office of International Programs (MSU) travel grant: Travel to Ukraine, 5/8/93-5/25/93, for presentation of paper entitled "Engineering in the Poultry Industry" and for business purposes, \$1,600 (PI).

MSU Office of Research and Economic Development Faculty Travel Program grant; 8/29/07, Grant was for international travel and was designated to assist faculty members with travel to professional meetings and conferences in 2008, \$1,500.00.

World's Poultry Science Association-USA branch travel grant; 11/20/07, Grant was designated to assist faculty members with travel in 2008 to the XXIII World Poultry Congress meeting in Brisbane, Australia, \$1,000.00.

2008 Graduate Student Association travel awards grant; 3/20/08, Grant was funded by the MSU Office of the Graduate School for graduate student travel, \$200.00.

2010 Travel Assistance Grant for Graduate Students; 3/24/10, Grant was funded by the MSU Office of the Graduate School for graduate student travel to scientific meetings, \$1,250.00.

World's Poultry Science Association-USA branch travel grant; 5/31/12, Grant was designated to assist faculty members with travel in 2012 to the XXIV World Poultry Congress meeting in Salvador, Bahia, Brazil, \$1,000.00.

2013 Travel Assistance Grant for Graduate Students; 10/11/13, Grant was funded by the MSU Office of the Graduate School for graduate student travel to scientific meetings, \$425.00.

2018 Travel Assistance Grant for Graduate Students (Seyedabolghasem Fatemi; PhD graduate student); 7/22/18, Award was provided by the Mississippi Poultry Association with funds from the International Paper Co. Funding covered student travel to 2018 Poultry Science Association annual meeting in San Antonio, Texas (7/22/18-7/27/18), \$1,247.34.

Other Extramural Funding

Funds provided by a grant from the Institute of International Education for service as a committee member of the 2006 Fulbright Summer Pre-academic Program: 5/2/07, \$600.00.

Invention Disclosures/Patents

Title of Invention Disclosure: Use of temperature transponder implantation in the air cell of avian eggs for monitoring embryo metabolism and heat production, and for the subsequent programming of optimal incubational temperatures.

MSU Inventors: E. D. Peebles (65%), R. Pulikanti (25%), and W. Zhai (10%).

Mississippi State University Technology ID: 2012.0852. October 12, 2012.

Because deadline was exceeded, patent was not applied for.

Title of Invention Disclosure: Micro-environment eggs incubation technology.

MSU Inventors: S. D. Filip To (33.3%), E. David Peebles (33.3%), and Christopher McDaniel (33.3%). Mississippi State University Technology ID: 2016.0992. Date: June 6, 2016.

Title of Provisional Patent Application: Microenvironment incubation method and apparatus. MSU Inventors: S. D. Filip To (33.3 %), E. David Peebles (33.3 %), and Christopher D. McDaniel (33.3 %). Mississippi State University Technology ID: 2016.0992. Attorney Docket Disclosure No.: 2016.0992 PROV 2. Serial number 62/345,971. Date submitted to University: May 12, 2016. Serial number 62/515,752 filed with USPTO on June 6, 2017. Date patent approved: June 8, 2017. Patent Pending (USPTO). Date of closure of invention disclosure: April 9, 2018.

Awards and Activities

Academic Honors and Awards

Dean's List (Spring 1976-Spring 1979), USC.

President's Honor Roll (Fall 1977; Spring 1978, 1979), USC.

National Dean's List (1978).

Certificate of Merit-Graduate student research paper competition, 5th Annual Meeting of the Southern Poultry Science Society (1984).

Gamma Sigma Delta, Honor Society of Agriculture, Member (1985-present); Historian (1998-1999); Treasurer (1999-2000); Secretary (2000-2001); Vice-President (2001-2002); Chairman of Publicity Committee (2001-2002); President (2002-2003); Past-President (2003-2004).

Sigma Xi, The Scientific Research Society, Full member status (1991-present); Member of Admissions Committee (1991-1993), Chair (1992-1993); Executive Board Member-at-Large (1993-1995); Ex-officio Member of Banquet Committee (1995-1996); President-elect (1995-1996); President (1996-1997); Chairman of Faculty Awards Committee (1998-1999).

Sigma Xi Faculty Research Award (1994).

American Registry of Professional Animal Scientists, Specialization in Poultry, full-professional member status (1994-2004).

Mississippi Agricultural and Forestry Experiment Station Award for Publication with Most Relevance and Potential Impact to Mississippi Agriculture (2000).

Gamma Sigma Delta Research Award of Merit (April 11, 2002).

Mississippi State University College of Agriculture and Life Sciences and Mississippi Agricultural and Forestry Experiment Station Faculty Research Award (2010).

Mississippi State University StatePride Faculty Award (2010).

Mississippi State University College of Agriculture and Life Sciences and Mississippi Agricultural and Forestry Experiment Station Laboratory Safety Award (2016).

Poultry Science Association Fellow (Class of 2019; Date of enrollment: 7/18/19).

Major Non-Academic Interests and Activities

Colorado State University Pre-Veterinary Club (1975)

USC National Science Foundation Project Participant (12/77, 3/78)

USC Undergraduate Research Apprenticeship Program (1978)

NCSU Poultry Science Club (1982-1984)

NCSU Graduate Student Association (1982-1985)

NCSU Poultry Science Department Graduate Student Representative (1984-1985)

NCSU Water Polo Club (Fall 1984; Spring 1985)

Chi-Alpha Christian Fellowship, Faculty Advisor (1988-present)

Committee member of Chi-Alpha Christian Ministries for the Mississippi District (1990-1992)
 Treasurer for CARE Ministries (7/91-4/94) and Starkville Christian Center (7/92-8/93)
 MSU Poultry Science Club (1988-present)
 Boardtown Roadrunners Club member (1989-1995); Member-at-Large (1992-1993); President-elect
 (1993-1994); President (1994-1995)
 TAC Certified Track and Field Official (1992-present)
 Member of Christian Leadership Ministries of Campus Crusade for Christ (1993-1996)
 President of Fellowship of Christian Faculty and Staff for MSU (1993-1996)
 Golden Triangle Running and Cycling Club member (1995-present); President (2007-2008)
 Member of MSU Christian Faculty Forum (1/06-present)
 Member of MSU Lady Bulldog Booster Club (2001-present)
 President and communications director of MSU Christian Faculty-Staff Forum (9/10-present)
 Member (clarinetist) of Mississippi State University and Starkville Community Band (Jan.-April; 2011,
 2012, 2013, 2014, 2015, 2016, 2017, 2018, and 2019)
 Member (clarinetist) of Mississippi Baptist Symphony Orchestra. (Jan.-Nov.; 2018 and 2019)
 Member (clarinetist) of Celebration Music Ministry Orchestra for Starkville First Baptist Church,
 Starkville, MS. (Jan.-Dec.; 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, and 2019)

Professional Organization Memberships

Agribusiness Institute (MSU)
 American Registry of Professional Animal Scientists [Full member (poultry); 9/94-12/04]
 Mississippi Academy of Sciences (3/88-present)
 Mississippi Genomics Network (2/10-present)
 Mississippi Poultry Association
 Poultry Science Association
 Southern Poultry Science Society (1983-present)
 Southern Regional Poultry Breeding Project
 World's Poultry Science Association (1987-present)

PUBLICATIONS

Summary

Total Career Publications: 543

Books: 1

Book Chapters: 2

Published Peer Reviewed (Refereed) Journal Articles: 191, (First author): 71, (Invited Reviews): 2

Published Abstracts and Proceedings (Scientific Presentations): 323

Bulletins: 5

Popular/Miscellaneous articles: 19

Videotapes: 1

Webinars: 1

Textbooks

Peebles, E. David, (copyrighted). Study Guide for Introductory Genetics, 366 pages.

Kendall/Hunt Publishing Co., Dubuque, IA 52002.

First Edition-**1995**-ISBN 0-7872-1056-0

Second Edition-**1997**-ISBN 0-7872-3669-1

Third Edition-**2003**-ISBN 0-7575-0281-4

Third Edition (Revised Printing)-**2005**-ISBN 0-7575-2084-7

Third Edition (Second Revised Printing)-**2008**-ISBN 978-0-7575-5266-3

Third Edition (Third Revised Printing)-**2011**-ISBN 978-0-7575-8733-7

Fourth Edition-**2013**-ISBN 978-1-4652-1078-4

Fourth Edition (Revised Printing)-**2014**-ISBN 978-1-4652-5045-2

Fourth Edition (Second Revised Printing)-**2016**-ISBN 978-1-4652-9317-6

Fourth Edition (Third Revised Printing)-**2018**-ISBN 978-1-5249-6535-8 (item #446535)

Book Chapters

Peebles III, Edgar David (copyrighted), 2017 (Submitted for Publication-9/30/15; Date Proof was Posted-9/23/16). Mycoplasmosis in Egg-Laying Flocks. Chapter 50, Pages 537-546 in Egg Innovations and Strategies for Improvements. First Edition. P. Y. Hester, ed., Oxford: Academic Press, Elsevier Inc., New York, NY. ISBN 978-0-12-800879-9.

Peebles III, Edgar David (copyrighted), Q3, 2019 (Submitted for Publication-9/3/18; Date Proof was Posted-1/21/19; Date of Publication-11/26/19). In Ovo Development of the Chicken Gut Microbiome and its Impact on Later Gut Function, Chapter 5, Pages 95-119 in Part 1: Understanding the gastrointestinal tract, in Book: Improving Gut Health in Poultry. First Edition. S. C. Ricke, ed., Burleigh Dodds Science Publishing, Sawston, Cambridge, UK (ISBN-13:9781786763044; www.bdsublishing.com).

Video Tapes

Peebles, E. David, Sharon K. Whitmarsh, and Matthew R. Burnham, 2001. Basic Concepts in *Drosophila melanogaster* Genetics. Produced by MSU Department of Agricultural Communications.

Webinars

Peebles, E. David, 2019. Presenter and panelist for “Jumpstarting the Development of the Chick” live editorial webinar. Webinar was broadcast 8:30-10:00 AM on Tuesday, March 5, 2019 to approximately 200 listeners. The editorial webinar was an online Feed (FeedNavigator) production by William Reed Business Media, Le Belem-355 rue Vendemiaire, 34000 Montpellier, France. The webinar was sponsored by DuPont Industrial Biosciences.

Refereed Journal Articles

¹Denotes invited article

1. **Peebles, E. D., J. D. Painter, and E. L. Bradley, 1984.** A possible role for the thyroid in reproductive inhibition in laboratory populations of the prairie deermouse (*Peromyscus maniculatus*). *Comp. Biochem. Physiol.* 77A:293-298.
2. **Brake, J., W. D. Berry, E. D. Peebles, J. F. Ort, and W. R. Campbell, 1985.** Effect of feeding CGA-72662 (Larvadex®) during growth on body weight, feed consumption, livability, production, and egg quality of SCWL layers. *Poult. Sci.* 64:247-252.
3. **Peebles, E. D. and J. Brake, 1985.** Relationship of dietary ascorbic acid to broiler breeder performance. *Poult. Sci.* 64:2041-2048.
4. **Brake, J., J. D. Garlich, and E. D. Peebles, 1985.** Effect of protein and energy intake by broiler breeders during the prebreeder transition period on subsequent reproductive performance. *Poult. Sci.* 64:2335-2340.
5. **Peebles, E. D. and J. Brake, 1985.** Relationship of eggshell porosity to stage of embryonic development in broiler breeders. *Poult. Sci.* 64:2388-2391.
6. **Peebles, E. D. and J. Brake, 1986.** The role of the cuticle in water vapor conductance by the eggshell of broiler breeders. *Poult. Sci.* 65:1034-1039.
7. **Peebles, E. D. and J. Brake, 1986.** The effect of induced molting on water vapor conductance and other eggshell quality parameters of broiler breeders. *Poult. Sci.* 65:1270-1274.
8. **Peebles, E. D. and J. Brake, 1987.** Eggshell quality and hatchability in broiler breeder eggs. *Poult. Sci.* 66:596-604.

9. **Peebles**, E. D., J. Brake, and R. P. Gildersleeve, **1987**. Effects of eggshell cuticle removal and incubation humidity on embryonic development and hatchability of broilers. *Poult. Sci.* 66:834-840.
10. **Peebles**, E. David, W. H. Burke, and H. L. Marks, **1988**. Effects of recombinant chicken growth hormone in randombred meat-type chickens. *Growth Dev. Aging* 52:133-138.
11. **Peebles**, E. David and H. L. Marks, **1991**. Effects of selection on plasma thyroxine concentrations in Japanese quail under thiouracil and protein stress. *Poult. Sci.* 70:641-650.
12. **Peebles**, E. David and H. L. Marks, **1991**. Effects of selection for growth and selection diet on eggshell quality and embryonic development in Japanese quail. *Poult. Sci.* 70:1474-1480.
13. Brake, J. D., T. N. Chamblee, C. D. Schultz, E. D. **Peebles**, and J. P. Thaxton, **1992**. Daily feed and water consumption of broiler chicks from 0 to 21 days of age. *J. Appl. Poult. Res.* 1:160-163.
14. Brake, J. D., C. R. Boyle, T. N. Chamblee, C. D. Schultz, and E. D. **Peebles**, **1992**. Evaluation of the chemical and physical properties of hardwood bark used as a broiler litter material. *Poult. Sci.* 71:467-472.
15. **Peebles**, E. David, E. H. Miller, J. D. Brake, and C. D. Schultz, **1992**. Effects of ascorbic acid on plasma thyroxine concentrations and eggshell quality of Leghorn chickens treated with dietary thiouracil. *Poult. Sci.* 71:553-559.
16. Brake, J. D. and E. D. **Peebles**, **1992**. Laying hen performance as affected by diet and caging density. *Poult. Sci.* 71:945-950.
17. Brake, J. D., M. J. Fuller, C. R. Boyle, D. E. Link, E. D. **Peebles**, and M. A. Latour, **1993**. Evaluations of whole chopped kenaf and kenaf core used as a broiler litter material. *Poult. Sci.* 72:2079-2083.
18. Pugh, Charles R., E. David **Peebles**, Nancy P. Pugh, and Mickey A. Latour, **1993**. Ultrasonography as a tool for monitoring *In Ovo* chicken development. I. Technique and morphological findings. *Poult. Sci.* 72:2236-2246.
19. **Peebles**, E. David, Charles R. Pugh, Carolyn R. Boyle, Mickey A. Latour, Nancy P. Pugh, and J. D. Brake, **1993**. Ultrasonography as a tool for monitoring *In Ovo* chicken development. II. Effects of eggshell alteration and ultrasonography on embryonic and posthatch development. *Poult. Sci.* 72:2247-2253.
20. Latour, Mickey A., E. David **Peebles**, Carolyn R. Boyle, and J. D. Brake, **1994**. The effects of dietary fat on growth performance, carcass composition, and feed efficiency in the broiler chick. *Poult. Sci.* 73:1362-1369.

21. **Peebles**, E. David, E. H. Miller, Carolyn R. Boyle, J. D. Brake, and Mickey A. Latour, **1994**. Effects of dietary thiouracil on thyroid activity, egg production and eggshell quality in commercial layers. *Poult. Sci.* 73:1829-1837.
22. Latour, Mickey A., Edgar D. **Peebles**, Carolyn R. Boyle, Julian D. Brake, and Thomas F. Kellogg, **1995**. Changes in serum lipid, lipoprotein, and corticosterone concentrations during neonatal chick development. *Biol. Neonate* 67(5):381-386.
23. **Peebles**, E. D., M. A. Latour, S.E. Broome-Cheaney, J.D. Cheaney, and C.D. Zumwalt, **1996**. Effects of oral ethanol on serum lipoprotein cholesterol in juvenile meat-type chickens. *Alcohol* 13(2):111-115.
24. Latour, Mickey A., E. David **Peebles**, Carolyn R. Boyle, Steven M. Doyle, T. Pansky, and J. D. Brake, **1996**. Effects of breeder hen age and dietary fat on embryonic and neonatal broiler serum lipids and glucose. *Poult. Sci.* 75:695-701.
25. **Peebles**, E. David, James D. Cheaney, Kathy M. Vaughn, Mickey A. Latour, Tom W. Smith, Robert L. Haynes, and Carolyn R. Boyle, **1996**. Changes in gonadal weights, serum lipids, and glucose during maturation in the juvenile Northern Bobwhite quail (*Colinus virginianus*). *Poult. Sci.* 75:1411-1416.
26. Latour, Mickey A., S. A. Laiche, J. R. Thompson, A. L. Pond, and E. David **Peebles**, **1996**. Continuous infusion of adrenocorticotropin elevates circulating lipoprotein cholesterol and corticosterone concentrations in chickens. *Poult. Sci.* 75:1428-1432.
27. **Peebles**, E. David, J. D. Cheaney, J. D. Brake, Carolyn R. Boyle, and Mickey A. Latour, **1997**. Effects of added dietary lard on body weight and serum glucose and low density lipoprotein cholesterol in randombred broiler chickens. *Poult. Sci.* 76:29-36.
28. **Peebles**, E. David, E. H. Miller, Carolyn R. Boyle, J. D. Brake, Mickey A. Latour, and J. Paul Thaxton, **1997**. Effects of consecutive thiouracil exposures in the juvenile and adult Single Comb White Leghorn chicken on body weight and reproductive performance. *Poult. Sci.* 76:236-243.
29. **Peebles**, E. David, A. L. Pond, J. R. Thompson, C. D. McDaniel, N. M. Cox, and M. A. Latour, **1997**. Naloxone attenuates serum corticosterone and augments serum glucose concentrations in broilers stimulated with adrenocorticotropin. *Poult. Sci.* 76:511-515.
30. Latour, Mickey A., E. David **Peebles**, Chris W. Gardner, and Gustav Schonfeld, **1997**. An evaluation of the lipoprotein composition and corresponding apolipoproteins in the newly hatched male and female broiler chick from two different age flocks. *Biol. Neonate* 72(6):380-388.
31. **Peebles**, E. David, J. D. Brake, and M. A. Latour, **1997**. Broiler performance, yield, and bone characteristics as affected by starter diet fat level. *J. Appl. Poult. Res.* 6(3):325-330.

32. **Peebles**, E. David, J. D. Cheaney, J. D. Brake, Carolyn R. Boyle, Mickey A. Latour, and C. D. McDaniel, **1997**. Effects of added lard fed to broiler chickens during the starter phase. 1. Body and selected organ weights, feed conversion, hematology, and serum glucose. *Poult. Sci.* 76:1641-1647.
33. **Peebles**, E. David, J. D. Cheaney, J. D. Brake, Carolyn R. Boyle, Mickey A. Latour, and C. D. McDaniel, **1997**. Effects of added lard fed to broiler chickens during the starter phase. 2. Serum lipids. *Poult. Sci.* 76:1648-1654.
34. Latour, Mickey A., E. D. **Peebles**, S. M. Doyle, T. Pansky, T. W. Smith, and Carolyn R. Boyle, **1998**. Broiler breeder age and dietary fat influence the yolk fatty acid profiles of fresh eggs and newly hatched chicks. *Poult. Sci.* 77:47-53.
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Advisee Doctoral Dissertations

1. Latour, M. A., **1995**. Maternal dietary fat transfer and utilization in the embryonic and neonatal broiler chicken. Ph.D. Dissertation, Mississippi State University, Mississippi State, MS 39762.
2. Burnham, M. R., **2002**. Physiological factors potentially associated with the alteration of reproductive performance of commercial egg laying chickens infected with the F-strain of *Mycoplasma gallisepticum*. Ph.D. Dissertation, Mississippi State University, Mississippi State, MS 39762.
3. Pulikanti, R., **2011**. Novel approaches in monitoring and determining the relationships between pre- and post-hatch metabolic parameters in progeny of young broiler breeders. Ph.D. Dissertation, Mississippi State University, Mississippi State, MS 39762.
4. Jacob, R., **2013**. Effects of live and killed *Mycoplasma gallisepticum* vaccinations prior to an F-strain *M. gallisepticum* vaccine overlay on the performance, egg, blood, and visceral characteristics of commercial layer chickens. Ph.D. Dissertation, Mississippi State University, Mississippi State, MS 39762.
5. Sokale, A. O., **2015**. Effects of the in ovo injection of Inovocox EM1 vaccine on the embryogenesis, posthatch performance, and gut pathology of Ross × Ross 708 broilers. Ph.D. Dissertation, Mississippi State University, Mississippi State, MS 39762.
6. Collins, K. E., **2016**. *In ovo* vaccination of layer chickens with strain F *Mycoplasma gallisepticum*. Ph.D. Dissertation, Mississippi State University, Mississippi State, MS 39762.
7. Fatemi, S. A., **2019**. Effects of the *in ovo* injection of vitamin D₃ sources on the hatchability, performance, breast meat yield, small intestine morphology, and immunity of Ross 708 broilers subjected to dietary insufficiency and pathogenic agents. Ph.D. Dissertation, Mississippi State University, Mississippi State, MS 39762.
8. Alqhtani, A. H., 2020. *In ovo* vaccination of layer chickens with 6/85 and ts-11 vaccine strains of *Mycoplasma gallisepticum*. Ph.D. Dissertation, Mississippi State University, Mississippi State, MS 39762.

Advisee Master's Theses

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3. Cheaney, J. D., **1994**. Effects of fat in the starter diet on selected and non-selected meat-type chickens between 14 and 42 days of age. M. S. Thesis, Mississippi State, MS 39762.
4. Zumwalt, C. D., **1996**. Effects of added fats in broiler breeder diets on egg quality and pre- and post-hatch broiler development. M. S. Thesis, Mississippi State, MS 39762.
5. Pansky, T., **1996**. Effects of breeder age, dietary fat and cuticle removal on relative eggshell conductance, embryogenesis, hatchability and broiler growout performance. M.S. Thesis, Mississippi State, MS 39762.
6. Sulaiman, A., **1997**. The role of the yolk stalk in yolk absorption of post-hatch broiler chicks. M.S. Thesis, Mississippi State, MS 39762.
7. Gardner, C. W., **1997**. Effects of incubational environment and breeder age on lipid metabolism and embryogenesis in broiler hatching eggs. M.S. Thesis, Mississippi State, MS 39762.
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9. Burnham, M. R., **1999**. Effects of incubator humidity and breeder age on yolk and embryo compositions in broiler hatching eggs. M.S. Thesis, Mississippi State, MS 39762.
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Abstracts and Proceedings (Scientific Presentations)

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291. Zhao, D., T. Tran, E. D. **Peebles**, W. Zhai, M. Farnell, and Y. Farnell, 2017. Identification and characterization of extracellular vesicles from the amniotic fluid of layer chicken embryos. Poult. Sci. 96(E-Suppl. 1), Genomics, Molecular and Cellular Biology:65(Abstr. #176).
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294. **Peebles, E. D., H. A. Olanrewaju, S. L. Branton, J. D. Evans, S. A. Leigh, E. J. Kim, G. T. Pharr, and K. E. C. Elliott, 2018**. Blood variables of commercial egg-laying pullets following a field-strain *Mycoplasma gallisepticum* challenge. *SPSS, Poult. Sci.* 97(E-Suppl. 1), *Physiology, Endocrinology, and Reproduction*:59(Abstr. #199P).
295. Fatemi, S. A., K. E. C. Elliott, A. Bello, O. A. Durojaye, H. Zhang, B. Turner, and E. D. **Peebles, 2018**. Effects of *in ovo*-injected vitamin D₃ sources on eggshell temperature and the early post-hatch performance of Ross 708 broilers. *SPSS, Poult. Sci.* 97(E-Suppl. 1), *Metabolism and Nutrition, Vitamins and Minerals*:89(Abstr. #306P).
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297. Fatemi, S. A., H. Zhang, K. E. C. Elliott, O. A. Durojaye, , and E. D. **Peebles, 2018**. Effects of *in ovo* injection of L-ascorbic acid on early growth performance and systemic antioxidant capacity in broiler chickens. *SPSS, Poult. Sci.* 97(E-Suppl. 1), *Metabolism and Nutrition-Feed Additives*:49-50(Abstr. #166T).
298. **Peebles, E. D. 2018**. Shell quality in broiler hatching eggs. Eleventh Annual International Congress Conference of Avian Specialists of Mexico (AVEM): 4 (Abstr. #4), March 6-8, 2018, Juriquilla, Quere'taro, Me'xico.
299. Fatemi, S. A., K. E. C. Elliott, W. Zhai, A. Bello, B. Turner, and E. D. **Peebles, 2018**. Effects of the *in ovo* injection of vitamin D₃ and 25-hydroxyvitamin D₃ on meat yield and woody breast incidence in broilers fed commercial or calcium and phosphorus-restricted diets. *Poult. Sci.* 97(E-Suppl. 1), *Metabolism and Nutrition, Vitamins and Minerals I*:10-11(Abstr. #24).
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301. Lindsey, L. L., K. E. C. Elliott, S. A. Fatemi, P.O. Ishola, P. D. Gerard, and E. D. **Peebles, 2019**. Incubational and embryonic temperature relationships in Ross 708 broiler hatching eggs. *SPSS, Poult. Sci.* 98(E-Suppl. 1), *Physiology, Endocrinology and Reproduction, Broilers*:3(Abstr. #M6). Don R. Sloan Certificate of Excellence-undergraduate student (awarded to Lindsey) research oral presentation competition in the Physiology, Endocrinology and Reproduction section of the 2019 International Poultry Scientific Forum (40th Annual Meeting of the Southern Poultry Science Society), 2019.

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305. Fatemi, S., K. C. Elliott, A. Bello, A. Alqhtani, and E. D. **Peebles, 2019**. Improvement in performance and meat yield of broilers challenged with coccidiosis in response to *in ovo* injection of various sources of vitamin D₃. J. Miss. Acad. Sci. 64(1):10-11(Abstr. #P4).
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307. Alqhtani, A. H., S. L. Branton, J. D. Evans, K. E. C. Elliott, and E. D. **Peebles, 2019**. Successful *in ovo* administration as a possible alternative route of 6/85 *Mycoplasma gallisepticum* delivery on layer embryo survival and post-hatch performance. J. Miss. Acad. Sci. 64(1):13-14(Abstr. #P13).
308. Fatemi, S. A., K. E. C. Elliott, A. Alqhtani, A. Bello, and E. D. **Peebles, 2019**. Effects of the *in ovo* injection of vitamin D₃ and 25-hydroxyvitamin D₃ on the small intestine morphology and immunity of broilers challenged with coccidiosis. Poult. Sci. 98(E-Suppl. 1), Metabolism and Nutrition, Vitamins and Minerals:33(Abstr. #13).
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311. Fatemi, S. A., K. E. C. Elliott, A. Alqhtani, A. Bello, and E. D. **Peebles, 2019**. Effects of the *in ovo* injection of vitamin D₃ and 25-hydroxyvitamin D₃ on the performance and meat yield of broilers challenged with coccidiosis. Poult. Sci. 98(E-Suppl. 1), Metabolism and Nutrition, Vitamins and Minerals:127(Abstr. #548P).

312. Alqhtani, A. H., S. L. Branton, J. D. Evans, K. E. C. Elliott, and E. D. **Peebles, 2019**. Transmission and impact of an *in ovo*-applied temperature-sensitive *Mycoplasma gallisepticum* live vaccine on layer embryos and post-hatch chicks. Proceedings of the 91st Annual Northeastern Conference on Avian Diseases (NECAD) of the American Association of Avian Pathologists (AAAP):38(Abstr. #3), September 11-13, 2019, State College, PA.
313. ¹**Peebles, E. D., 2019**. Factors of eggshell quality in broiler hatching eggs and their relationships to hatching success and posthatch performance. ChickMaster Incubator Co. industry training seminar for hatchery supervisors, Pigeon Forge, TN, 1:00-2:00 PM, October 2, 2019.
314. Fatemi, S. A., K. E. C. Elliott, A. Alqhtani, A. Bello, and E. D. **Peebles, 2019**. Improvement in the inflammatory reaction and small intestine morphology of Ross 708 broilers in response to the *in ovo* injection of various sources of vitamin D₃ when subjected to a coccidiosis challenge. Proc. 18th Annual MSU Graduate Student Association Research Symposium, Life and Biomedical Sciences and Engineering Division, October 05, 2019. First place graduate oral presentation award-MSU GSA graduate student (Fatemi) research paper competition.
315. Fatemi, S. A., K. E. C. Elliott, A. Alqhtani, A. Mousstaid, A. Bello, A. Levy, and E. D. **Peebles, 2020**. Improvement in the performance and inflammatory responses of Ross 708 broilers when injected *in ovo* with various forms of vitamin D₃. SPSS, Poult. Sci. 99(E-Suppl. 1), Metabolism and Nutrition V, Enzymes/Feed Additives:29(Abstr. #M91). Certificate of Achievement-graduate student (Fatemi) research paper competition, International Poultry Scientific Forum (41st Annual Meeting of the Southern Poultry Science Society), 2020.
316. Alqhtani, A., S. A. Fatemi, K. E. C. Elliott, A. Mousstaid, A. Levy, A. Bello, and E. D. **Peebles, 2020**. Increased breast meat yield of Ross 708 broilers in response to the *in ovo* injection of various forms of vitamin D₃. SPSS, Poult. Sci. 99(E-Suppl. 1), Metabolism and Nutrition, Vitamins and Minerals:104(Abstr. #P340).
317. Miller, N. R., A. Mousstaid, R. B. Oakes, S. A. Fatemi, A. Alqhtani, K. E. C. Elliott, W. Miller, and E. D. **Peebles, 2020**. The effects of supplementary *in ovo* and dietary ascorbic acid on broiler performance. Mississippi State University Spring 2020 Undergraduate Research Symposium, Biological and Sciences and Engineering Category, April 15, 2020: 91-92(Abstr. #BSE-084).
318. Elliott, K. E. C., E. B. Dehart, S. A. Fatemi, A. H. Alqhtani, A. Mousstaid, K. S. Bannister, W. Zhai, and E. D. **Peebles, 2020**. Effects of reduced incubation temperature starting at 12 days of incubation on post-hatch broiler performance. Poult. Sci. 99(E-Suppl. 1), Management and Production:58(Abstr. #114).
319. Fatemi, S. A., K. E. C. Elliott, A. H. Alqhtani, A. Mousstaid, L. Zhang, and E. D. **Peebles, 2020**. Effects of the *in ovo* injection of vitamin D₃ and 25-hydroxyvitamin D₃ on the vitamin D₃ activity-related gene expression of broilers challenged with coccidiosis. Poult. Sci. 99(E-Suppl. 1), Metabolism and Nutrition, Vitamins and Minerals:115(Abstr. #235).

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321. Mousstaaid, A., K. E. C. Elliott, S. A. Fatemi, A. H. Alqhtani, and E. D. **Peebles, 2020**. Effects of the *in ovo* injection of L-ascorbic acid (AA) on the serum AA concentrations and hatchability of broiler embryos. *Poult. Sci.* 99(E-Suppl. 1), Metabolism and Nutrition, Vitamins and Minerals:119(Abstr. #243).
322. Alqhtani, A. H., S. L. Branton, J. D. Evans, K. E. C. Elliott, and E. D. **Peebles, 2020**. Effects of the *in ovo* administration of the 6/85 *Mycoplasma gallisepticum* vaccine on layer chicken embryo livability and post-hatch performance. Proceedings of the 63rd American Association of Avian Pathologists (AAAP) annual meeting (virtual). July 30-August 6, 2020: Bacteriology/Antimicrobial, 9(Abstr.#11).
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