

SUNDAY PETERS, PhD

Dept. of Animal Science, Berry College, Mount Berry, GA 30149
Office: 706-368-6919; Cell: 575-571-9089. Email: speters@berry.edu

EDUCATION & TRAINING

June 2011 – August, 2012

Postdoctoral Research Associate, Department of Animal Science, Department of Biomedical Sciences, Cornell University, Ithaca, NY 14853.

2008 - 2011

Ph.D. Molecular Biology. New Mexico State University, Las Cruces, NM, 88003, USA.
Dissertation: Genome-wide Association Studies of Growth and Fertility in Brangus Heifers. 100pp.

2002 - 2005

Ph.D. Animal Breeding and Genetics. University of Agriculture, Abeokuta. Nigeria.
Dissertation: Variation in Semen Quality, Reproductive and Growth Performance of Artificially Inseminated Strains of Pure and Crossbred Chickens. 213pp.

1997 -2000

M.S. Animal Breeding and Genetics. University of Agriculture, Abeokuta. Nigeria.
Thesis: Genetic Variation in the Reproductive Performance of the Indigenous Chicken and the Growth Rate of its Pure and Half-bred Progeny. 120pp.

1989 -1995

B.S. - Animal Science. University of Agriculture, Abeokuta. Nigeria.
Honor's Project: Strain Differences in Broiler Performance. 120pp.

PATENTS/TRADEMARKS/INTELLECTUAL PROPERTY

- ❖ FUNAAB Alpha Improved Chicken with registration number NGGGD-18-02

PROFESSIONAL DEV. SHORT COURSES & CONTINUING EDUCATION

- 2012 **Statistical Methods for Genome-Enabled Selection** Animal Breeding and Genetics Unit, Department of Animal Science, Iowa State University, Ames, IA, U.S.A, May 6 -10 (Instructors: Daniel Gianola and Gustavo de los Campos).
- 2011 **Summer Institute in Statistical Genetics** (Modules: Bayesian Methods for Genetics, MCMC for Genetics, Mixed Models in Quantitative Genetics, Gene Expression Profiling, Advanced R Programming for Bioinformatics and GWAS Data Cleaning) University of Washington, Seattle, WA. June 13 – July 1.
- 2010 **USDA/NRI/AFRI Annual Investigator Meeting**. Town and Country Hotel, San Diego, California. January 8.

- 2009 **Bayesian-based Genome-wide Association Study, Candidate Gene Identification and Genomic Selection in Livestock Species.** Animal Breeding and Genetics Unit, Department of Animal Science, Iowa State University, Ames, IA, U.S.A, January - June, (Instructors: Dorian Garrick, Jim Reecy and Rohan Fernando).
- 18th Annual Growth Factor and Signal Transduction Symposium:** System Biology: Integrative, Comparative and Multiscale Modeling. Iowa State University, Ames, IA. June 11 – 14.
- Use of High-density SNP Genotyping for Genetic Improvement of Livestock** Animal Breeding and Genetics Unit, Department of Animal Science, Iowa State University, Ames, IA June 1-10.
- Statistical Genetics of Livestock for the Post-Genomic Era** in honor of Prof Daniel Gianola. University of Wisconsin, Madison. May 4 – 6.
- 2007 **John Vercoe Conference on Animal Breeding for Poverty Alleviation** - Harnessing New Science for Greater Impact, Nairobi, Kenya, 6 - 9 November
- 2006 **International Workshop on Biometrics and Research Methods,** University of Cape Town, South Africa, June 25 - July 2.
- 2005 **Analysis of Longitudinal Data.** Pre-Conference Course, 9th Biennial Conference of the Sub-Saharan African Network of International Biometric Society, Addis Ababa, Ethiopia. December 12 - 13.
- Teaching and Academic Administration in Nigerian University System.** Workshop organized by the Research and Development Centre (RESDEC), University of Agriculture, Abeokuta, Nigeria. September 13 - 15.
- Scientific Data Management.** Regional training course on scientific data management sponsored by the Technical Centre for Agricultural and Rural Cooperation (CTA) and held at the University of Agriculture, Abeokuta, Nigeria. 7 - 19 March.
- Poultry Breeding and Hatchery Management.** A practical training course organized by University of Agriculture, Abeokuta in collaboration with S & D Farms, Abeokuta, Nigeria. February 14 - 18.
- 2002 **Standard in-vitro Recombinant DNA Technology.** Summer course organized by the Biotechnology Centre, University of Agriculture, Abeokuta, Nigeria in collaboration with Institute of Agriculture (HIA) Ibadan. September 15-28.

AWARDS & HONORS

- Annual Biomedical Research Conference for Minority Students (ABRCMS) Judge Travel Award (Covered Conference registration, accommodation and travel), Phoenix, AZ Nov 1-5, 2017.

- Summer Institute in Statistical Genetics Scholarship (covered tuition, accommodation and travel), University of Washington, Seattle. 2011.
- Travel Scholarship to attend Gordon Research Conference on Quantitative Genetics and Genomics, Galveston, TX. 2009.
- Graduate Research Assistantship Award, New Mexico State University, Las Cruces. (May, 2008 – May, 2011)
- CGIAR travel and accommodation grant to attend John Vercoe's Conference on Animal Breeding and Poverty Alleviation, ILRI, Nairobi, Kenya, November 6th-9th, 2007.
- Ford Foundation's Scholarship International Workshop on Biometrics and Research Methods, University of Cape Town, South Africa, June 25 – July 2nd 2006
- World's Poultry Science Association travel award to attend European Poultry Conference, Verona, Italy. Sept 10 -14, 2006
- World's Poultry Science Association travel award to attend 3rd International Ratite Science Symposium and XII World Ostrich Congress, Madrid, Spain, 14 - 16 October, 2005.
- CTA travel and accommodation grant to attend CTA-IBS sponsored 9th Scientific Conference of the Sub-Saharan Network of International Biometrics Society, Ethiopian Agricultural Research Institute, Addis Ababa, Ethiopia, December 12th – 16th, 2005

COMPUTER SKILLS

Software: MS Office, MATLAB, SAS, C++ and R programming

Technical Software Support Skills (A+ Certified) in Window 98, XP, NT, 2000 platforms

Operating Systems: Windows, UNIX, Linux

PROFESSIONAL EXPERIENCE

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|-------------------|--|
| 06/2015 – date | Adjunct Assistant Professor, University of Georgia, Athens, GA 30602. |
| 08/2013 – date | Assistant Professor, Berry College, Mount Berry, GA 30149. |
| 08/2012 – 07/2013 | Visiting Assistant Professor, Berry College, Rome, GA 30149. |
| 06/2012 – 08/2013 | Postdoctoral Research Associate, Dept. of Animal Science, Department of Biomedical Sciences, Cornell University, Ithaca, NY 14853. |
| 10/2010 – 10/2012 | Senior Lecturer, University of Agriculture, Abeokuta, Nigeria. |
| 10/2007 – 10/2010 | Lecturer I, University of Agriculture, Abeokuta, Nigeria. |
| 10/2004 – 10/2007 | Lecturer II, University of Agriculture, Abeokuta, Nigeria. |

10/2001 – 10/2004 Assistant Lecturer, University of Agriculture, Abeokuta, Nigeria.

08/1995 - 07/1996 National Youth Service Corps

TEACHING EXPERIENCE

Dept of Animal Science, Berry College

ANS 324 Genetics of Livestock Improvement
ANS 327L Reproductive Physiology lab
ANS 105 Introduction to Agricultural Science
ANS 201 Orientation to Animal Sciences
BCC 100 Freshman Seminar
ANS 498 Bioinformatics
ANS 498 Genetics of Disease Resistance in Domestic Animals
ANS 425 Swine and Poultry Production and Management
ANS 432 Poultry Systems and Management

Dept of Animal and Range Sciences, New Mexico State University (Teaching Assistant)

ANSC 305 Principles of Genetics
ANSC 423 Animal Breeding

Dept. of Animal Breeding and Genetics, University of Agriculture (Lecturer).

Graduate

ABG 701 Introduction to Genetics and Animal Biotechnology
PDA 714 Monogastric Breeding
ABG 704 Stock Improvement
ABG 703 Quantitative Genetics

Undergraduate

AGS 597 Seminar
ABG 500 Applied Animal Breeding and Genetics
ABG 401 Quantitative Heredity in Animal Breeding and Genetics
ABG 501 Method of Animal Experimentation.
APH 508 Incubation and Hatchery Management

Graduate Students Supervised/Co-Supervised (Univ. of Agriculture, Abeokuta, Nigeria)

Adelodun O. FADARE, PhD

Dissertation Title: Inheritance pattern of coat color and its association with adaptive and productive performance of West African Dwarf sheep in Southwestern Nigeria.

Babatunde M. ILORI, M.S

Thesis Title: Comparative analyses of productive adaptability of pure and crossbred turkeys in humid tropics.

Adelodun O. SANUSI, MS

Thesis Title: Association of coat color with tolerance of West African Dwarf sheep to *Haemonchus contortus* infection

Sunday ADENAIKE, MS, Ph.D

Thesis Title: Bioinformatic analyses of casein gene cluster in mammals

PROFESSIONAL SERVICE & ADMINISTRATIVE EXPERIENCE

Berry College, Mount Berry, GA, USA

1. Faculty Assembly Representative – Educational Land Management Committee (2015-2019)
2. Faculty Assembly Representative – Center For Teaching Excellence Committee (2015-2017)
3. Faculty Assembly Representative – Writing Across The Curriculum Committee (2015-2017)
4. Faculty Assembly Representative – Endowed Lectureship Committee (2015- 2017)
5. SMNS Representative – International Programs (2016- 2019)
6. Faculty Assembly Representative – Faculty and Staff Benefits Committee (2017-2019)

University of Agriculture, Abeokuta, Nigeria

1. Member, College Board of Animal Science and Livestock Production (2001 - 2008)
2. Member, Students Welfare and Hostel Management Committee (2002 - 2008)
3. Member, Teaching Farm Management Committee (2001-2003)
4. Member, Pig Management Technical Committee (2001 -2008)
5. Member, Poultry Management and Technical Committee (2001- 2008)
6. Chairman, College Hatchery Committee (2006-2008)
7. Secretary, World's Poultry Science Association-Nigerian Branch (October 2005 - Feb, 2009)
8. Member, Local Organizing Committee, 1st Nigerian International Poultry Summit (2005)
9. Member, Publicity and Protocol Sub-committee, 7th Annual Conference of Animal Science Association of Nigeria held at the University of Agriculture, Abeokuta, Nigeria (2002)
10. Chairman, Organizing Committee, Open Day of World Poultry Science Association, Nigeria Branch held at the University of Agriculture, Abeokuta in commemoration of World's food day. (16th October, 2003)

Advising

Berry College – Currently advising 41 students

Manuscript Reviewer

ANIMAL

BMC Genomics

BMC Genetics

Frontiers in Genetics

Genes and Genomics

Journal of Applied Animal Research

Livestock Science

Molecular Biology Reports
Tropical Journal of Animal Health and Production
Nigerian Journal of Animal Production
Nigerian Journal of Genetics
Molecular Genetics and Genomics
Poultry Science
British Poultry Science
Livestock Genomics

PROFESSIONAL MEMBERSHIPS

American Society of Animal Science (ASAS)
International Biometrics Society (IBS)
International Society of Animal Genetics (ISAG)

GRANTSMANSHIP

ACTIVE SUPPORT

Title: Acquisition of a QuantStudio 7 Flex RealTime PCR System for Undergraduate Research and Teaching.

Agency: National Science Foundation – Major Research Instrumentation

Amount: \$99,645.00

Duration: 09/01/2018 – 07/31/2021

Role: Co-Principal Investigator

Title: Evaluation of cryopreservation techniques of in vitro produced goat embryos

Agency: Berry College's Faculty Development Fund

Duration: 01/01/2017 – 06/30/2017

Amount: \$5975.00

Role: Co-Principal Investigator

Title: Robust Threshold Model for Genomic Selection

Agency: Berry College's Faculty Development Fund

Duration: 06/01/2015 – 09/01/2015

Amount: \$5000

Role: Principal Investigator

Title: Genetic diversity of Adamts1: A positional candidate gene for heifer fertility

Agency: Berry College's Faculty Development Fund

Duration: 11/01/2013 – 07/30/2014

Amount: \$2600

Role: Principal Investigator

Title: A Pilot Gene-Based DNA Test for Heifer Fertility in New York State

Agency: USDA-NIFA-Federal Formula Funds

Duration: 10/01/2011 – 09/30/2014

Amount: \$66,000

Role: Collaborator

Molecular analysis of positional candidates identified by whole genome association and pilot DNA test for heifer pregnancy.

Title: Beef Cattle Improvement Research

Agency: Pfizer Animal Health Sponsored Research Agreement

Duration: 12/01/2011 – 12/30/2013

Amount: \$277,000

Role: Collaborator

Utilization of genomics tools for beef cattle improvement, with emphasis on growth and reproduction traits.

PENDING SUPPORT

Title: High resolution genetic and epigenetic analyses of early pregnancy QTL region on BTA 2 in US cattle breeds

Agency: USDA-NIFA

Duration: 01/01/2019 – 12/31/2020

Amount: \$189,601

Role: Principal Investigator

GRANTS UNDER DEVELOPMENT

Title: Comparative Phylogenomics of Bovine Heat Shock Protein Genes in the Near East and US

Agency: US-Israel Binational Agricultural Research Development Fund

Amount: \$300,000

Role: Co-Principal Investigator

De-novo gene expression profiling of thermoregulatory organs (brain, liver and muscle tissues) and phylogenetic diversity of heat shock protein genes to understand genetic variation and diversity in heat tolerance loci in extant cattle breeds in the Near East (Israel) and the United States.

Title: Evolutionary Genomics of Heat Adaptation in *Bovidae* in Africa, Asia and the Americas

Agency: NSF-BIO Division of Environmental Biology - Evolutionary Processes Cluster

Amount: \$1.5 M

Role: Co-Principal Investigator

Use a landscape genomics approach that combines molecular markers and GIS-referenced characteristics to understand the evolutionary genetics of heat adaptation in domestic and wild bovids across the climatic landscapes of Asia, the Americas and Africa. This will contribute to better understanding of mammalian evolutionary biology under global climate change.

GRANTS SUBMITTED BUT NOT FUNDED

Title: Identification and Association of Imprinted Genes influencing Bovine Growth

Agency: USDA-NIFA-AFRI Foundation Awards

Duration: 08/01/2013 – 07/31/2016

Amount: \$499,497

Role: Collaborator

Use RNA-seq to identify novel and confirm known imprinted genes in multiple tissues from reciprocal crosses of *Bos taurus* x *Bos gaurus* and *Bos taurus* x *Bos gaurus* hybrids to determine parent-of-origin expression based on SNPs between orthologous genes in the parent species and evaluate effects of a subset of carefully selected imprinted genes on growth traits in beef cattle.

Title: Molecular Genetic Assessment of Sperm Quality in Bulls

Agency: USDA-NIFA-AFRI Foundation Awards

Duration: 08/01/2013 – 07/31/2016

Amount: \$499,897

Role: Collaborator

The aims of this project are to conduct genome-wide association of sperm traits in bulls using the Affymetrix 700K high density SNP panel, profile sperm from low and high fertility bulls and to identify transcriptomic, epigenomic and proteomic biomarkers useful for selection and evaluate sperm fertilization potential using *in-vitro* fertilization assays.

Title: ANIMAL HEAT GENEBASE: New Database of Heat Stress/Tolerance Genes in Livestock

Agency: USDA-NIFA-AFRI Foundation Awards

Duration: 08/01/2013 – 07/31/2016

Amount: \$499,960

Role: Collaborator

This project will identify heat stress/tolerance genes using transcriptomic and proteomics analyses of thermoregulatory organs (skin, muscle, kidney, heart, brain, thyroid and adrenal glands) in heat-adapted *Bos indicus* (Brahman) and cold-adapted *Bos taurus* (Angus) cattle subjected to heat stress. A new database of these genes, linked to other existing genomics resources for use by researchers into genetics/genomics of heat stress and tolerance in livestock will be developed and deployed.

Title: Genomics, Proteomics and Economics of Manipulating Bovine Fertility

Agency: USDA-NIFA-AFRI Food Security Program

Amount: \$2,996,911

Duration: 5 years

Role: Collaborator

This large 5-year integrated project will harness the power of statistical and functional genomics and proteomics to probe the molecular and cellular correlates of superior fertility of male and female cattle, and deploy economic modeling to develop a decision support system for sustainable U.S. beef and dairy cattle production.

Title: Genomics and Proteomics Applications to Characterize Heat Tolerance of Cattle

Agency: David R. Atkinson Center for a Sustainable Future, Cornell University

Duration: 1 year

Amount: \$100,000

Role: Research Associate

Transcriptomic and proteomic profiling of cattle under heat stress and incorporation of resulting genomics and proteomics data into bio-energetics models to better understand the biological basis of heat exchange between animals and their environments. The long-term goal of this and follow-

up projects is identification and characterization of heat tolerance genes and how the biological properties of these genes influence animal thermal comfort.

Title: Identification and Characterization of Imprinted Genes associated with Bovine Growth

Agency: USDA-NIFA-AFRI Animal Breeding, Genetics and Genomics Program

Duration: 3 years

Amount: \$499,978

Role: Collaborator

De-novo discovery and characterization of imprinted genes in cattle using RNA-Seq, and epigenetics effects on growth over ontogenic time in beef cattle.

CONSULTING SERVICES

- 2015 - Global Programs, University of Georgia, Athens, USA – USAID’s Feed the Future Livestock Innovation Laboratory Proposal Development.
- 2014 – Department of Animal Breeding and Genetics, Federal University of Agriculture, Abeokuta, Nigeria. PEARLS Proposal to Bill and Melinda Gates Foundation on Development of Improved Chicken for West Africa.

PUBLICATIONS AND SCHOLARSHIP

Book Chapters/Contributions

1. Imumorin, I.G, **Peters, S.O.** and De Donato, M. 2012. Genomic imprinting and imprinted gene clusters in the bovine genome. Invited Book Chapter In: *Livestock Epigenetics* (Hasan Khatib, editor). Pp. 89 – 112. Wiley-Blackwell. ISBN 978-0-04079-5859-9/2012.

Published Peer Reviewed Articles

2. ***Peters, S.O.**, Hussain, T, Adeyemi, A.S, Adeleke, M.A, De Donato, Hazzard, J, Babar, M.E and Imumorin, I.G. 2018. Genetic Diversity of Bovine Major Histocompatibility Complex Class II DRB3 locus in cattle breeds from Asia compared to those from Africa and America. *Journal of Genomics* 6: 88-97. Doi:10.7150/jgen.36491
3. *Adenaike, A.S, **Peters, S.O.**, Adeleke, M.A, Fafiolu, A.O, Takeet, M.I and Ikeobi, C.O.N. 2018. Use of discriminant analysis for the evaluation of coccidiosis resistance parameters in chickens raised in hot humid environment. *Trop Anim Health Prod* 50:1161-1166 .doi.org/10.1007/s11250-018-1547-1
4. *Yakubu, A, Salako, A.E, De Donato, M, Takeet, M.I, **Peters, S.O.**, Okpeku, M, Wheto, M and Imumorin, I.G. 2017. Nucleotide sequence variability analysis of major histocompatibility complex class II DQA1 gene in Nigerian goats. *Genetika* 49: 865-874

5. *Ajayi, O.O., **Peters, S.O.**, De Donato, M., Mujibi, F.D., Khan W.A., Hussain, T., Babar, M.E., Imumorin, I.G and Thomas, B.N. 2018. Genetic variation in the N- and C-terminal regions of the bovine DNAJA1 gene in African, Asian and North American cattle. *Journal of Genomics* 6:1-8.
6. *Bamidele, O, De Donato, M, **Peters, S.O**, Omitogun, O.G and Imumorin, I.G. 2017. Molecular cloning, sequence analysis and tissue expression of bovine imprinted ASCL2 gene. *South African Journal of Animal Science* 47: 813-821.
7. *De Donato, M, **Peters S.O**, Hussain T, Rudulfo H, Thomas, B.N, Babar, M.E and Imumorin, I.G. 2017. Molecular evolution of type II MAGE genes from ancestral MAGED2 gene and their phylogenetic resolution of basal mammalian clades. *Mammalian Genome* doi.10.1007/s00335-017-9695-6
8. *De Donato, M, Hussain T, Rodulfo, H., **Peters, S.O**. Imumorin, I.G. and Thomas, B.N. 2017. Repeats conservation at the mammalian KCNQ10T1 – CDKN1C region suggests a role in genomic imprinting. *Evolutionary Bioinformatics* 13: 1-14.
9. *Yakubu, A, Salako, A.E, De Donato, M, **Peters, S.O**, Takeet, M.I, Wheto, M, Okpeku, M and Imumorin, I.G. 2017. Association of SNP variants of MHC Class II DRB gene with thermo-physiological traits in tropical goats. *Tropical Animal Production and Health* 49: 323-336.
10. *Takeet, M.I, Oyewusi, A.J, Abakpa, S.A.V, Daramola, O.O and **Peters, S.O**. 2017. Genetic diversity among Babesia rossi detected in naturally infected dogs in Abeokuta, Nigeria based on 18s rRNA gene sequences. *Acta Parasitologica* 62: (1) 000-000. Doi;10.1515/ap-2017-00
11. *Okpeku, M, Esmailzadeh, A, Adeola, A.C, Shu, L, Zhang, Y, Wang, Y, Sanni, T.M, Imumorin, I.G, **Peters, S.O**, Zhang, J, Dong, Y and Wang W. 2016. Genetic variation of goat Interferon Regulatory Factor 3 Gene and its implication in goat evolution. *PLoS ONE* 11 (9): E0161962. Doi:10.1371/journal.pone.0161962
12. *Ghaderi-Zefrehei, M, Rabbanikhah, E, Baneh, H, **Peters, S.O**, and Imumorin, I.G. 2016. Analysis of culling records and estimation of genetic parameter for longevity and some production traits in Holstein dairy cattle. *Journal of Applied Animal Research* doi: 10. 1080/09712119.2016.1219258
13. *Okpeku, M, **Peters, S.O**, Imumorin, I.G, Caires, K.C, Sharma, V. K, Wheto, M, Tamang, R, Adenaike, A.S, Ozoje, M.O and Thangaraj. 2016. Mitochondrial DNA hypervariabe region 1 diversity in Nigerian goats. *Animal Genetic Resources* 59: 47 -54.
14. *Yakubu, A, Salako, A.E, DeDonato, M, Takeet, M.I, **Peters, S.O**, Wheto, M, Okpeku, M and Imumorin, I.G. 2016. Interleukin-2 (IL-2) gene polymorphism and association with heat tolerance in Nigerian goats. *Small Ruminant Research* 141:127-134

15. *Takeet, M.I, Fagbemi, B.O, **Peters, S.O**, Wheto, M, Yakubu, A, DeDonato, M and Imumorin, I.G. 2016. Differential IFN-Gamma (IFN- γ), Interleukin 10 (IL-10) AND Cardiac Troponin 1 (CTn1) responses in Natural Bovine Trypanomosis in Nigeria. Open Journal of Veterinary Medicine 6: 105-111
16. *Ibeagha-Awemu, E.M, **Peters S.O**, Akwanji, A.K, Imumorin, I.G and Zhao X. 2016. High density genomewide genotyping-by-sequencing and association identifies common and low frequency SNPs and novel candidate gene influencing cow milk traits. Scientific Reports 6: 31109/ DOI: 10.1038/srep31109
17. *Takeet, M.I, **Peters, S.O**, Fagbemi, B.O, DeDonato M, Takeet, V.O, Wheto, M and Imumorin I.G. 2016. Phylogeny of *Trypanosoma brucei* and *Trypanosoma evansi* in naturally infected cattle in Nigeria by analysis of repetitive and ribosomal DNA sequences. Tropical Animal Health and Production DOI 10: 007/S11250-016-1081-y
18. *Takeet, M.I, Fagbemi, B.O, **Peters, S.O**, DeDonato M, Yakubu, A, Wheto, M and Imumorin I.G. 2016. Genetic diversity among *Trypanosoma vivax* strains detected in naturally infected cattle in Nigeria based on ITS1 of rDNA and diagnostic antigen gene sequences. J. Parasitic Diseases. DOI 10. 1017/S 12639- 016-0822-1
19. *Adeleke, M.A., **Peters, S.O.**, Ogunmodede, D.T., Oni, O.O., Ajayi, O.L., Wheto,M., Adebambo, O.A. 2015. Genotype effect on distribution pattern of maternally derived antibody against Newcastle diseases in Nigerian Local Chickens. Tropical Animal Health and Production **47**: 391 – 4.
20. ***Peters, S.O.**, Kizilkaya, K., Fernando, R.L., Garrick, D.J., Pollak, E.J., Enns, R.M., De Donato, M., Ajayi, O.O. and **Imumorin, I.G.** 2014. Use of robust linear mixed models for genetic evaluation of carcass traits in beef cattle. Journal of Animal Breeding and Genetics 2014: 1-9. doi. 10. 1111/jbg.12093.
21. *Ajayi, O.O., Adefenwa, M.A., Agaviezor, B.O., Ikeobi, C.O.N., **Peters, S.O.**, Wheto, M., Okpeku, M., Yakubu, A., De Donato, M and Imumorin, I.G. 2014. A novel TaqI polymorphic site in the coding region of ovine TNXB gene in the MHC Class III region: Morphostructural and physiological influences. Biochemical Genetics 52 (1-2): 1-14. doi: 10.1007/s10528-013-9622-9.
22. *Birteeb, P.T, **Peters, S.O.** and Ozoje, M.O. 2014. Analysis of the body structure of Djallonke sheep using a multideterminant approach. Animal Genetic Resources **54**: 65-72.
23. *Oso, A.O, Fafiolu, A.O, Adeleke, M.A, Ladokun, O.A, Sobayo, R.A, Jegede, A.V, **Peters, S.O**, Oyebamiji, O.A and Akinsola, J. 2013. Effects of dosage and application mode of L-Carnitine on plasma lipid and egg yolk cholesterol of turkeys hatchability of eggs and post-hatch growth of their offspring. J. Animal Physiology and Animal Nutrition. doi: 10:111/jpn. 12134, 766-774.

24. ***Peters, S.O.**, Kizilkaya, K., Fernando, R.L., Garrick, D.J., Pollak, E.J., De Donato, M., Hussain, T. and Imumorin, I.G. 2013. Application of multivariate heavy-tailed distributions to residuals in the estimation of genetic parameters for growth traits in beef cattle. *Journal of Animal Science* **91**: 1552-1561.
25. *Yakubu, A., Salako, A.E., De Donato, M., **Peters, S.O.**, Adefenwa, M.A., Okpeku, M., Wheto, M., Agaviezor, B.O., Ajayi, O.O., Onasanya, G.O., Sanni, T.M., Takeet, M.I., Ekundayo, O.J., Ilori, B.M., Amusan, S. A., and Imumorin, I.G. 2013. Genetic diversity in exon 2 at the major histocompatibility complex DQB1 locus in Nigerian goats. *Biochemical Genetics* **51**:954 – 966.
26. *Adefenwa, M.A., Agaviezor, B.O., **Peters, S.O.**, Oboh, B.O., Wheto, M., Adekoya, K.O., Okpeku, M., Ikeobi, C.O.N., De Donato, M. and Imumorin, I.G 2013. Novel intron 2 polymorphism in the melanophilin gene is not associated with coat color in goats. *Open Journal of Genetics* **3**:195-200.
27. *Adefenwa, M.A., **Peters, S.O.**, Agaviezor, B.O., Oboh, B.O., Wheto, M., Adekoya, K.O., Okpeku, M., Ikeobi, C.O.N., Williams, G.O., Singh, M., De Donato, M. and Imumorin, I.G. 2013. Single nucleotide polymorphisms in the agouti signaling protein gene in Nigerian and American goats. *Molecular Biology Reports* **40**:4447-4457*.
28. *De Donato, M., **Peters. S.O.**, Mitchell, S.E., Hussain, T. and Imumorin, I.G. 2013. Genotyping-by-sequencing: a novel, efficient and cost-effective genotyping method for cattle using next generation sequencing. *PLoS ONE* **8** (5):e62137.
29. Fadare, O.A., **Peters, S.O.**, Sonibare, A.O., Ozoje, M.O., and Imumorin, I.G. 2013. Physiological and hematological indices suggest superior heat tolerance of white-colored West African Dwarf sheep in the hot humid tropics. *Tropical Animal Health and Production* **45**: 157 - 165.
30. Sanni, T., Onasanya, G.O., Adefenwa, M.A., Agaviezor, B.O., Yakubu, A., Ikeobi, C.O.N., Adebambo, O.A., Talabi, A., Ozoje, M.O., Wheto, M., Takeet, M.I., **Peters, S.O.**, De Donato, M., Thomas, B. and Imumorin, I.G. 2013. PCR-based diagnosis of subclinical Trypanosoma vivax and association with physiological indices and serum values in extensively managed goats in the tropics. *Open Journal of Veterinary Medicine* **3**: 39 - 45.
31. **Peters, S.O.**, Kizilkaya, K., Garrick, D.J., Fernando, R.L., Reecy, J.M., Weaber R. L., Silver, G.A and Thomas, M.G. 2012. Bayesian QTL inference from whole genome analysis of growth and composition in yearling Brangus heifers. *Journal of Animal Science* **90**: 3398 - 3409
32. **Peters, S.O.**, Kizilkaya, K., Garrick, D.J., Fernando, R.L., Reecy, J.M., Weaber, R.L., Silver, G.A and Thomas, M.G. 2012. Heritability and Bayesian genome-wide association

of binary traits of first service conception and heifer pregnancy in Brangus heifers. *Journal of Animal Science* doi.10.2527/jas.2012-5580

33. Fortes, M.R.S, W.M. Snelling, A. Reverter, S.H. Nagaraj, K.L. DeAtley, **Peters, S.O.**, S. Lehnert, R.J. Hawken, G.A. Silver and M.G. Thomas. 2012. Hypothalamic gene network and transcription factor analyses of first service conception in Brangus heifers. *Journal of Animal Science* **90**: 2894 - 2906
34. Takeet, M.I., Fagbemi, B.O., De Donato, M., Yakubu, A., Ruldolfo, H.E., **Peters, S.O.**, Wheto, M., and Imumorin, I.G. 2012. Molecular survey of trypanosomes in naturally infected Nigerian cattle. *Research in Veterinary Science* doi:10.1016/j.rvsc.2012.10.018.
35. Agaviezor, B.O., **Peters, S.O.**, Adefenwa, M.A., Yakubu, A., Adebambo, O.A., Ozoje, M.O., Ikeobi, C.O.N., Ilori, B. M., Wheto, M., Ajayi, O.O., Amusan, S.A., Ekundayo, J.O., Okpeku, M., Onasanya, G.O., De Donato, M. and Imumorin, I.G. 2012. Morphological and molecular genetic diversity of Nigerian sheep. *Journal of Animal Science and Biotechnology* **3**:38 doi: 10.1186/2049-1891-3-38.
36. Yakubu, A., **Peters S.O.**, Ilori, B.M., Imumorin, I.G., Takeet, M.I., Ozoje, M.O., Ikeobi, C.O.N. 2012. Multivariate discriminant analysis of morphological and heat tolerance traits in indigenous, exotic and crossbred turkey in Nigeria. *Animal Genetic Resources* **50**: 21 - 27
37. Agaviezor, B.O., Adefenwa, M.A., **Peters, S.O.**, Yakubu, A., Adebambo, O.A., Ozoje, M.O., Ikeobi, C.O.N., Ilori, B.M., Wheto, M., Okpeku, M., De Donato, M. and Imumorin, I.G. 2012. Genetic diversity analysis of the mitochondrial D-loop of Nigerian indigenous sheep. *Animal Genetic Resources* **50**: 13 – 20.
38. Ajayi, O.O., Adeleke, M.A., Sanni, T.M., Yakubu, A., **Peters, S.O.**, Imumorin, I.G., Ozoje, M.O., Ikeobi, C.O.N., and Adebambo, O.A. 2012. Application of principal component and discriminant analyses to morpho-structural indices of indigenous and exotic chickens raised under intensive management system. *Tropical Animal Health and Production* **44** (6): 1247 – 54.
39. Ajayi, O.O., Yakubu, A., Jayeola, O.O., **Peters, S.O.**, Ilori, B.M., Imumorin, I.G., Takeet, M.I., Ikeobi, C.O.N., Ozoje, M.O. 2012. Multivariate analysis of sexual dimorphism in Nigerian indigenous turkeys (*Melleagris ocellata*). *Tropical Animal Health and Production* **44** (5): 1089 – 95.
40. Ilori, B.M., **Peters, S.O.**, Yakubu, A., Imumorin, I.G., Adeleke, M.A., Ozoje, M.O., Ikeobi, C.O.N. and Adebamabo, O.A. 2012. Physiological adaptation of local and improved turkeys to the hot and humid tropical environment of Nigeria. *Acta Agriculturae Scandinavica Section A - Animal Science* **61** (4): 204 – 209.

41. Sanusi, O.A., **Peters, S.O.**, Sonibare, A.O., Imumorin, I.G. and Ozoje, M.O. 2012. Preliminary association of coat color types and tolerance to *Hemonchus contortus* infection in West African Dwarf sheep. *Journal of Applied Animal Research* **40**: 1 – 7
42. Adedeji, T.A., Ozoje, M.O., **Peters, S.O.**, Sanusi O.A., Ojedapo, L.O. and Ige, A.O. 2011. Coat pigmentation and wattle genes effect on some hematological characteristics of heat stressed and extensively reared West African goats. *World Journal of Life Sciences and Medical Research* **1**: 48 -55.
43. Okpeku, M., Yakubu, A., **Peters, S.O.**, Ozoje, M.O., Ikeobi, C.O.N., Adebambo, O.A., and Imumorin, I.G. 2011. Application of multivariate principal component analysis to morphological traits of goats in southern Nigeria. *Acta Agriculturae Slovenica* **98** (2): 101 – 109.
44. Okpeku, M., **Peters, S.O.**, Ozoje, M.O., Adebambo, O.A., Agaviezor, B.O., O'Neill, M.J. and Imumorin, I.G. 2011. Genetic diversity and population structure of indigenous goats in southern Nigeria using microsatellite DNA polymorphisms. *Animal Genetic Resources* **49**: 33-41.
45. **Peters, S.O.**, Gunn, H.H, Imumorin, I.G, Agaviezor, B.O and Ikeobi, C.O.N. 2011. Haematological studies on frizzled and naked neck genotypes of Nigerian native chickens. *Tropical Animal Health and Production* **43**: 631 – 638.
46. Adedeji, T.A., Ozoje, M.O., **Peters, S.O.**, Ojedapo, L.O. and Sanusi O.A. 2011. Effect of coat color and wattle genes on the morphometric characteristics and scrotal dimensions of traditionally reared West African dwarf (WAD) bucks. *International Journal of Agriculture and Environmental Biotechnology* **4**: 154 - 162.
47. Adeleke, M.A., **Peters, S.O.**, Ozoje, M.O., Ikeobi, C.O.N., Adebambo, A.O., Olowofeso, O.O., Bamgbose, A.M. and Adebambo, O.A. 2011. A preliminary screening of genetic linkage of Nigerian local chickens based on blood protein polymorphisms. *Animal Genetic Resources* **48**: 23 – 28.
48. Adeleke, M.A., **Peters, S.O.**, Ozoje, M.O., Ikeobi, C.O.N., Bamgbose, A.M. and Adebambo, O.A. 2011. Growth performance of Nigerian local chickens in crosses involving an exotic broiler breeder. *Tropical Animal Health and Production* **43**: 643 – 650.
49. **Peters, S.O.**, Idowu, O.M.O, Agaviezor, B.O, Egbede, R.O and Fafiolu, A.O. 2010. Genotype and sex effect on gastrointestinal nutrient content, micro-flora and carcass traits in Nigerian native chickens. *International Journal of Poultry Science* **9** (8): 731-737.
50. Adeleke, M.A., **Peters, S.O.**, Ozoje, M.O., Ikeobi, C.O.N., Bamgbose, A.M. and Adebambo, O.A. 2010. Genetic parameter estimates for body weight and linear body measurements in pure and crossbred progenies of Nigerian Indigenous chickens. *Livestock Research for Rural Development*. Volume 23, Article #19.

51. Adebambo, A.O., M.A. Adeleke, M.whetto, **S.O. Peters**, C.O.N. Ikeobi, M.O. Ozoje, O.O. Oduguwa, and Olufunmilayo A. Adebambo. 2010. Combining abilities for carcass traits among pure and crossbred meat- type chickens. *International Journal of Poultry Sciences* **9** (8): 777-783.
52. Ilori, B.M., **Peters S.O.**, Ikeobi C.O.N., Bamgbose A.M., Isidahomen C.E and Ozoje M.O. 2010. Comparative Assessment of growth in pure and crossbred turkeys in a humid tropical environment. *International Journal of Poultry Science* **9** (4): 368-375
53. **Peters, S.O.**, Shoyebo O.O., Ilori B.M., Ozoje M.O., Ikeobi C.O.N and Adebambo O.A. 2008. Semen quality traits of seven strains of chickens raised in the humid tropics. *International Journal of Poultry Science* **7** (10): 949-953
54. **Peters, S.O.**, Ilori B.M., Ozoje M.O., Ikeobi C.O.N and Adebambo O.A. 2008. Gene segregation effects on fertility and hatchability of pure and crossbred chicken genotypes in the humid tropics. *International Journal of Poultry Science* **7** (10): 954-958
55. **Peters, S.O.**, Adeleke, M.A., Ozoje, M.O., Adebambo, O.A. and Ikeobi, C.O.N. 2007. Bio-prediction of live weight from linear body measurement traits among pure and crossbred chicken. *Nigerian Poultry Science Journal* **4**: 1- 6.
56. **Peters, S.O.**, Ikeobi, C.O.N., Ozoje, M.O., Famakinwa, O.A., Oshodi, Y.S. and Adebambo Olufunmilayo. 2007. Egg quality traits of Nigerian local chickens as influenced by some major genes. *Nigerian Journal of Animal Production* **34**:25 - 31.
57. Ozoje, M.O., **Peters, S.O.** and Ojikutu, S.I. 2007. Analysis of the growth curve parameters of N'dama cattle raised in the humid tropics. *Nigerian Journal of Animal Production* **34**:1-13.
58. Ozoje, M.O., **Peters, S.O.**, Akinde, O.J. and Ojikutu. 2007. Modeling the growth curve of N'dama beef cattle in the humid tropics. *Nigerian Journal of Animal Production* **34**: 14-24.
59. Adedeji, T.A, O.A. Adebambo, **S.O. Peters**, L.O. Ojedapo and A.O. Ige. 2006. Growth performance of crossbred and purebred chickens resulting from different sires in a humid tropical environment. *Journal of Animal and Veterinary Advances* **5** (8):674-678.
60. **Peters, S.O.**, C.O.N. Ikeobi, M.O. Ozoje and O. A. Adebambo, 2005. Modeling growth in seven chicken genotypes. *Nigerian Journal of Animal Production* **32** (1): 28 - 38.
61. **Peters, S.O.**, Adenuga A.A, Ozoje, M.O, Ikeobi, C.O.N and Adebambo, Olufunmilayo. A. 2005. Strain and age of dam effect on the reproductive and internal egg quality traits of crossbred chickens. *Nigerian Journal of Genetics* **19**: 23 - 33.

62. Adeleke, M. A., **S. O. Peters**, A. M. Bamgbose and Funmi A. Adebambo 2005. Effect of sire strains on egg production traits of crossbred chickens in South West of Nigeria. *Nigerian Journal of Genetics* **19**: 92 - 101.
63. **Peters, S.O.**, Ikeobi, C.O.N., Ozoje., M.O and Adebambo, O.A. 2002. Genetic variation in the reproductive performance of the Nigerian indigenous chicken. *Tropical Animal Investigation* **5**: 37 - 46.
64. Ikeobi, C.O.N. and **Peters, S.O.** 1996. Carcass character and organ weight correlations and heritabilities in two strains of meat type chicken. *Indian Journal of Animal Science* **66**: 57-61.
65. Ikeobi, C.O.N and **Peters, S.O.** 1996 Strain differences in genetic parameter estimates for growth traits in meat-type chicken. *Nigerian Journal of Animal Production* **23**: 103 - 106.
66. Ikeobi, C.O.N., **Peters, S.O.** and Ebozoje, M.O. 1995. Sexual dimorphisms in broiler chickens of two commercial strains. *Nigerian Journal of Genetics* **10**: 61 - 66.

**Peer-reviewed journal articles published since I arrive at Berry College*

Papers in Refereed Proceedings

67. Ilori, B.M., **Peters, S.O.**, Aruleba, D.D., Akano, K., Wheto, M., Iyanda, A.I., Ozoje. M.O and Isidahomen C.E. 2009. Heat tolerance traits among pure and crossbred turkeys in southwest Nigeria. *Proceedings of the 14th Annual Conference of Animal Science Association of Nigeria*, Ogbomosho 2009. Pp 89 - 92.
68. Jayeola, O.O., **Peters, S.O.**, Ilori B.M., Wheto, M., Akano, K and Ozoje, M.O. 2009. Modeling feed efficiency in pure and crossbred chickens. *Proceedings of the 33rd Annual Conference of the Nigeria Society For Animal Production*, Uyo, 2009. Pp 432-434.
69. Akanni, K.T., **Peters, S.O.**, Adebambo Funmilayo and Omoare, A.M. 2008. Comparative laying performance in pure and crossbred chickens in Southwestern Nigeria. *Proceedings of the 33rd Annual Conference of Nigeria Society for Animal Production*, Ogun 2008. Pp 10-13.
70. Akanni, K.T., **Peters, S.O.**, Adebambo Funmilayo, Omoare, A.M., and Adekunle, A.A. 2008. Reproductive performance of local, Nera Black and B-alpha improved indigenous crossbred chickens. *Proceedings of the 33rd Annual Conference of Nigeria Society for Animal Production*, Ogun 2008. Pp 7-9.
71. Adeleke, M.A., **Peters S.O.**, Okeleji, C.O. and Olufunmilayo Adebambo. 2007. Gene segregation effect on external traits, fertility and hatchability of eggs from crosses

- involving Indian and Nigerian ecotype chickens. *Proceedings of 2nd Nigerian International Poultry Summit*, Abeokuta, Feb 19 – 22. Pp. 100-104.
72. Agaviezor, B.O., Adebambo, O.A., Ozoje, M.O., **Peters, S.O.** and Adeleke, M.A. 2007. Genetic evaluation of laying performance of pure exotic and indigenous crossbred pullets. *Proceedings of 2nd Nigerian International Poultry Summit*, Abeokuta, Feb 19 – 22. Pp. 114-118.
73. **Peters, S.O.**, Ozoje, M.O. and Adenuga, A.A. 2005. The ratite industry in Nigeria: Problems and prospects. *Proceedings of the 3rd International Ratite Science Symposium and XII World Ostrich Congress*, Madrid Spain, Oct 14 – 16, 2005. Pp. 349-354.
74. **Peters, S.O.**, A.J. Ogundipe, Ikeobi, C.O.N, Ozoje, M.O, Akano, K and Adebambo, O.A. 2005. Strain effect on fertility, hatchability and external egg traits in chicken. *Proceedings of the 30th Annual Conference of Nigerian Society for Animal Production*, University of Nigeria, Nsukka, March 20 – 24. Pp. 14-16.
75. **Peters, S.O.**, Adenowo, J.A, Ozoje, M.O, Ikeobi, C.O.N and Adebambo, O.A. 2005. Sire strain effect on growth performance of pure and crossbred progenies of Nigerian local chickens. *Proceedings of the first Nigerian International Poultry Summit* Ota, Nigeria, February 20 – 25. Pp. 32-34.
76. **Peters, S.O.**, Omidiji, E.A., Ikeobi, C.O.N., Ozoje, M.O and Adebambo, O.A. 2004. Effect of naked neck and frizzled genes on egg traits, fertility and hatchability in local chicken. *Proceedings of the 9^h Annual Conference of Animal Science Association of Nigeria* Ebonyi State University, Abakaliki. September 13-16. Pp. 262-264.
77. **Peters, S.O.**, Ozoje, M.O., Nwagbo, N.E., and C.O.N. Ikeobi. 2004. Haemoglobin polymorphism and phenotypic variation in coat colour and wattle incidence among West African Dwarf (WAD) goats. *Proceedings of the 29^h Annual Conference of the Genetics Society of Nigeria* University of Agriculture, Abeokuta. October 11-14. Pp 84-87.
78. Wheto, M., **Peters, S.O.**, Akano, K., Ikeobi, C.O.N and Adebambo, O.A. 2004. Growth performance of local, crossbred and exotic chickens reared intensively. *Proceedings of the 29^h Annual Conference of the Genetics Society of Nigeria* University of Agriculture, Abeokuta. Pp. 130-133.
79. Adebambo, A.O., Ozoje, M.O., Anumudu, C.O. and **Peters, S.O.** 2002. Visible genetic profiles and phenotypic variation in the West African Dwarf goats. *Proceedings of the 7th Annual Conference of Animal Science Association of Nigeria* University of Agriculture, Abeokuta, Nigeria. Pp. 16-19.
80. **Peters, S.O.**, Ikeobi, C.O.N. and O. Bamkole. 2002. Small holder local turkey production in Ogun State. *Proceeding of the International Network for Family Poultry Development*, Senegal, December, 9-13. Pp. 173- 183.

81. **Peters, S.O.**, Nwosu, I.C., Ozoje, M.O. and Ikeobi, C.O.N. 1998. Estimation of pre-weaning growth parameters in German Brown, N'dama and their crosses in the tropics. *Proceedings, 6th World Congress of Genetics Applied to Livestock Production*, Australia. January 11-16. **23**:101-104.

Published Abstracts, Posters and Presentations

82. ***Peters, S.O.**, Kizilkaya, K., Mehmet, Y., Garrick, D.J. and Thomas, M.G. 2018. Accuracies of genomic breeding values for growth and carcass traits in Brangus beef cattle using K-means clustering for cross-validation. *ASAS-CSAS Annual Meeting and Trade Show, Vancouver, Canada, July 8-12, 2018*
83. ***Peters, S.O.**, Kizilkaya, K., Mehmet, Y., Garrick, D.J. and Thomas, M.G. 2018. Robust Bayesian inference based on birth, weaning and yearling data in Brangus beef cattle using normal/independently distributed. *ASAS-CSAS Annual Meeting and Trade Show, Vancouver, Canada, July 8-12, 2018*
84. ***Peters, S.** Ozoje, M and Kizilkaya K.2017. Utility of robust mixed models in describing growth of seven strains of chicken using Logistics and Richards growth Functions. *2017 Annual Meeting of Poultry Science Association, Orlando, FL, July 17-20, 2017*
85. ***Peters, S.** Ozoje, M and Kizilkaya K. Application of Bayesian robust mixed model in the use of non-linear functions to describe growth of three turkey genotypes. *2017 Annual Meeting of Poultry Science Association, Orlando, FL, July 17-20, 2017*
86. ***Peters, S.O.**, Sinecen, M., Gallagher, G.R., Pebworth, L.A., Hatfield, J.S., and Kizilkaya, K. Comparison of linear model and artificial neural network using antler beam diameter and beam length records of white-tailed deer (*Odocoileus virginianus*). *35th International Society for Animal Genetics Conference, Salt Lake City, Utah, July 23-27, 2016.*
87. ***Peters, S.O.**, Sinecen, M., Thomas, M.G., Imumorin, I.G and Kizilkaya, K. Genome-enabled prediction of genetic values of growth traits using artificial neural networks. *35th International Society for Animal Genetics Conference, Salt Lake City, Utah, July 23-27, 2016.*
88. ***Peters, S.O.**, Kizilkaya, K., Garrick, D.J., Fernando, R.L., Imumorin, I.G and Thomas, M.G. Use of Robust Bayesian regression model in genome-wide association study of growth traits in Brangus heifers. *Joint Annual Meeting – American Dairy Science Association and American Society of Animal Science, Orlando, FL, July 12-16, 2015.*
89. *Baranzandeh, A. Mohammadabadi, M. Imumorin, I.G., **Peters, S.O.**, Thomas, B.N., Ghaderi-Zefrehei, M and Nezamabadi-Pour., H. Comparative whole-genome analysis of

CpG islands in camelids and selected mammalian genomes. Joint Annual Meeting – American Dairy Science Association and American Society of Animal Science, Orlando, FL, July 12-16, 2015.

90. *Ozoje M. O, **Peters, S. O.** Caires, K.C. and Kizilkaya, K. Growth curve analyses of three turkey genotypes in the hot humid tropics using Bayesian mixed model approach. Joint Annual Meeting – American Dairy Science Association and American Society of Animal Science, Orlando, FL, July 12-16, 2015.
91. *Adeleke, M. A., Ojo, R.O., **Peters, S.O** and Ozoje, M.O. General and specific combining abilities for reproductive and growth performance of three color variants of Nigerian Indigenous turkeys. Joint Annual Meeting – American Dairy Science Association and American Society of Animal Science, Orlando, FL, July 12-16, 2015
92. *Gallagher, R.G., McLarty, R.J., **Peters, S.O.**, Barton, E.J., Lalumondier, A.J., Kramer, N.E. and Paryzek, K.M. Habituation of White-Tailed Deer (*Odocoileus virginianus*) in an Urban/Suburban Environment to an Unmanned Aircraft System (UAS) quadcopter. The 16th Wildlife Damage Management Conference, Gatlinburg, TN, March 1-4, 2015.
93. ***Peters, S.O.**, Kizilkaya, K., Garrick, D.J., Fernando, R.L., Reecy, J.M., Imumorin, I.G. and Thomas, M.G. Genome-wide association study of first service conception rate in Brangus heifers using probit, robit and logit models. World Congress on Genetics Applied to Livestock Production, Vancouver, Canada. August 17 – 22. 2014.
94. *Ozoje, M.O., Durosaro, S.O., Esada, P.E., Sode, F.A and **Peters, S.O.** Sequence Analyses of Bovine PAG-1 Gene. World Congress on Genetics Applied to Livestock Production, Vancouver, Canada. August 17 – 22. 2014
95. *Kheirabadi, K, **Peters, SO**, Imumorin, IG and Ghaderi-Zefrehei, M. Genetic parameters of milk yield at different somatic cell count levels using multiple-trait random regression in Holsteins. World Congress on Genetics Applied to Livestock Production, Vancouver, Canada. August 17 – 22. 2014
96. *Takeet, M.I., Fagbemi, B.O., De Donato, M., Yakubu, A., Rudolfo, H.E., **Peters, S.O.**, Wheto, M., and Imumorin, I.G. Differential expression of serum IFN-gamma (IFN- γ), interleukin 10 (IL-10) and cardiac troponin I (cTnI) in natural bovine trypanosomosis. 13th International Congress of Parasitology, Mexico City, August 10 – 15. 2014.
97. *Ibeagha-Awemu, E.A., **Peters, S.O.**, Imumorin, I.G. and Zhao, X. Genome-wide genotyping-by-sequencing (GBS) and association analysis of saturated and monounsaturated fatty acids in bovine milk identifies novel markers in Canadian Holstein cows. Annual Meeting of the American Society of Animal Science, Kansas City, MO. U.S.A. July 20 - 24. 2014.
98. ***Peters, S.O.**, Kizilkaya, K., Garrick, D.J., Fernando, R.L., Pollak, E.J., Enns, R.M. and Imumorin, I.G. Estimation of genetic parameters for reproductive traits in a multibreed

population of beef cattle. Annual Meeting of the American Society of Animal Science, Kansas City, MO.U.S.A. July 20 - 24. 2014.

99. *Ibeagha-Awemu, E.A., Akwanji, K.A., De Donato, M., **Peters, S.O.**, Imumorin, I.G. and Zhao, X. Genome wide genotyping-by-sequencing (GBS) and association analysis (GBS-GWAS) with bovine milk fatty acids of Canadian Holstein cows: Significant association signals with milk eicosapentanoic (C20:5n3, omega 3) and arachidonic (C20:4n6, omega 6) fatty acids. 22nd International Conference on Plant and Animal Genomes, San Diego, CA. U.S.A. January 11 – 15. 2014.
100. *Ajayi, O.O., **Peters, S.O.**, Khan, W.A., Mujibi, F.D., Shi, P., Ikoebi, C.O.N., and Imumorin, I.G. Transcriptomic profiling of bovine skin in tropically-adapted indicine and temperate-adapted taurine cattle using RNA-seq. 22nd International Conference on Plant and Animal Genomes, San Diego, CA. U.S.A. January 11 – 15. 2014.
101. *Bamidele, O., De Donato, M., **Peters, S.O.**, Omitogun, O.G., and Imumorin, I.G. Phylogenetic analysis and tissue expression of putative imprinted bovine ASCL2 gene. 22nd International Conference on Plant and Animal Genomes, San Diego, CA. U.S.A. January 11 – 15. 2014.
102. *LaMastro, J.N., Khan, W.A., **Peters, S.O.**, Ajayi, O.O., De Donato, M., Bai, W.L. and Imumorin, I.G. 2013. GALNT13, a positional candidate gene on bovine chromosome 2 for heifer pregnancy is only expressed in nervous tissue. Annual Meeting of the American Society of Animal Science, Indianapolis, IN. July 8 - 12. 2013.
103. ***Peters, S.O.**, Kizilkaya, K., Garrik, D.J., Fernando, R.L., Pollak, E.J., De Donato, M., Hussain, T. and Imumorin, I.G. 2013. Multivariate heavy-tailed distribution modeling of residuals in estimation of genetic parameters of carcass traits in beef cattle. J. Anim. Sci. 91: E –Suppl. 2 Pg 70. Annual Meeting of the American Society of Animal Science, Indianapolis, IN. July 8 - 12. 2013.
104. ***Peters, S.O.**, Kizilkaya, K., Garrik, D.J., Fernando, R.L., Reecy, J.M., Imumorin, I.G., Silver, G.A. and Thomas, M.G. 2013. Model comparison in genome-wide association study of fertility traits of first service conception and heifer pregnancy in Brangus cattle. J. Anim. Sci. 91: E –Suppl. 2 Pg 393. Annual Meeting of the American Society of Animal Science, Indianapolis, IN. July 8 - 12. 2013.
105. *Birteeb, P.T., **Peters, S.O.**, Ozoje, M.O. 2013. Factor analysis of biometric traits among the Djallonke sheep of Northern Ghana. J. Anim. Sci. 91: E –Suppl. 2 Pg 295. Annual Meeting of the American Society of Animal Science, Indianapolis, IN. July 8 - 12. 2013.
106. *Adeleke, M.A., Ojo, R.O., **Peters, S.O.**, and Ozoje, M.O. 2013. General and specific combining abilities for reproductive and growth performance of three color variants of Nigerian indigenous turkeys. J. Anim. Sci. 91: E –Suppl. 2 Pg 293 -294. Annual Meeting of the American Society of Animal Science, Indianapolis, IN. July 8 - 12. 2013.

107. DeAtley, K.L., Thomas, M.G., Fortes, M.R.S., Medrano, J.F., Rincon, G., Islas-Trejo, A., Colgrave, M.L., Ashley, R.L., Silver, G.A., **Peters, S.O.**, Reverter, A., Canovas, A. and Snelling, W.M. 2013. X marks the spot: Region of bovine chromosome X associated with heifer fertility traits in Brangus cattle. *J. Anim. Sci.* 91: E –Suppl. 2 Pg 535. Annual Meeting of the American Society of Animal Science, Indianapolis, IN. July 8 - 12. 2013.
108. *Takeet, M.I., Fagbemi, B.O., De Donato, M., Yakubu, A., Rudolfo, H.E., **Peters, S.O.**, Wheto, M., and Imumorin, I.G. 2013. Phylogenetic analysis of *Trypanosoma congolense* and *Trypanosoma vivax* detected in naturally infected Nigerian cattle breeds. World Association for the Advancement of Veterinary Parasitology, Perth, Australia, August 25 – 29. 2013.
109. Bamidele, O., Ajayi, O.O., Omitogun, O.G., **Peters, S.O.**, Ajayi, O.O., De Donato, M and Imumorin, I.G. Computational prediction and analysis of CpG Islands and transcription factor binding elements in imprinted gene cluster on bovine chromosome 29. 21st International Conference on Plant and Animal Genomes, San Diego, CA. January 12 – 16. 2013.
110. Banabazi, M.H., Ghaderi-Zefrehei, M., Imumorin, I.G., **Peters, S.O.**, De Donato, M. and Javaremi, A.N. Whole Transcriptome Value Index (WTVI): a methodology for integrating functional sequences from RNA-Seq data into animal selection. 21st International Conference on Plant and Animal Genomes, San Diego, CA. January 12 – 16. 2013.
111. Adenaike, A.S., **Peters, S.O.**, Imumorin, I.G., Fafiolu, A.O. and Ikeobi, C.O.N. Computational molecular analyses of Kappa casein 3 gene reveal differences between ruminants and non-ruminant mammals. 21st International Conference on Plant and Animal Genomes, San Diego, CA. January 12 – 16. 2013.
112. Ogunupebi, J., **Peters, S.O.**, Ozoje, M.O., Yakubu, A., and Imumorin, I.G. Genome-wide identification and analysis of the uridine diphospho N-acetylgalactosaminyltransferase (GALNT) gene family in cattle. 21st International Conference on Plant and Animal Genomes, San Diego, CA. January 12 – 16. 2013.
113. ***Peters, S.O.**, Kizilkaya, K., Thomas, M.G., Fernando, R.L., Garrick, D.J., Reecy, J.M., De Donato, M. and Imumorin, I.G. (2013b). Genome-wide linkage disequilibrium patterns in ten cattle breeds. 21st International Conference on Plant and Animal Genomes, San Diego, CA. January 12 – 16. 2013.
114. Ajayi, O.O., **Peters, S.O.**, Hussain, T., Khan, W.A., De Donato, M. LaMastro, J., Mujibi, F.D. and Imumorin, I.G. Genetic diversity in the N-terminal region of bovine DNAJA1 heat shock protein gene in 15 cattle breeds from Africa, Asia and North America. 21st International Conference on Plant and Animal Genomes, San Diego, CA. January 12 – 16, 2013.

115. Ajayi, O.O., De Donato, M., **Peters, S.O.**, Ikeobi, C.O.N., Mujibi, F.D., and Imumorin, I.G. Computational genome-wide survey of heat tolerance genes in the bovine genome. 21st International Conference on Plant and Animal Genomes, San Diego, CA. January 12 – 16. 2013.
116. De Donato, M., Hussain, T., Ruldolfo, H., **Peters, S.O.**, and Imumorin, I.G. Rapid evolution and divergence of type II MAGE genes in eutherians. 21st International Conference on Plant and Animal Genomes, San Diego, CA. January 12 – 16. 2013.
117. Khan, W-A., Hussain, T., De Donato, M., Ajayi, O.O., **Peters, S.O.** and Imumorin, I.G. Genetic variation in the bovine IWS1 gene. 21st International Conference on Plant and Animal Genomes, San Diego, CA. January 12 – 16. 2013.
118. Simoni, Z.L., Rudolfo, H.E., De Donato, M., Takeet, M.I., **Peters, S.O.**, and Imumorin, I.G. Meta-analysis of trypanosomosis prevalence in livestock in the Americas. Joint ADSA-AMPA-ASAS-CSAS-WSASAS Annual Meeting, Phoenix, AZ. July 15 – 19, 2012.
119. Imumorin, I.G, De Donato, M., **Peters, S.O.**, Corn, A.M., Rudolfo, H.E., Bing, Y., Al-Abri, M., and Hussain, T. Sequence analysis and DNA methylation patterns of the bovine IWS1 gene localized to a region on Bta2 involved with postnatal growth. Joint ADSA-AMPA-ASAS-CSAS-WSASAS Annual Meeting, Phoenix, AZ. July 15 – 19, 2012.
120. Hussain, T., Babar, M.E., Imran, M., Nadeem, A., Ali, A., Saif, R., Wajid, A., De Donato, M., **Peters, S.O.** and Imumorin, I.G. Sequence diversity of IFNA and IFB1 immune genes in Pakistani cattle. Joint ADSA-AMPA-ASAS-CSAS-WSASAS Annual Meeting, Phoenix, AZ. July 15 – 19, 2012.
121. Hussain, T., Babar, M.E., Imran, M., Nadeem, A., Ali, A., Saif, R., Wajid, A., De Donato, M., **Peters, S.O.** and Imumorin, I.G. Genetic diversity of Pakistani cattle using microsatellite DNA markers. Joint ADSA-AMPA-ASAS-CSAS-WSASAS Annual Meeting, Phoenix, AZ. July 15 – 19, 2012.
122. Hussain, T., Babar, M.E., Imran, M., Nadeem, A., Ali, A., Saif, R., Wajid, A., De Donato, M., **Peters, S.O.** and Imumorin, I.G. Genetic variation study in Pakistani buffalo breeds using microsatellite markers. Joint ADSA-AMPA-ASAS-CSAS-WSASAS Annual Meeting, Phoenix, AZ. July 15 – 19, 2012.
123. De Donato, M., **Peters, S.O.**, Mitchell, S.E., and Imumorin, I.G. Genotyping-by-sequencing: a novel, efficient and cost-effective genotyping method in cattle. Joint ADSA-AMPA-ASAS-CSAS-WSASAS Annual Meeting, Phoenix, AZ. July 15 – 19, 2012.
124. **Peters, S.O.**, Kizilkaya, K., Thomas, M.G., Fernando, R.L., Garrick, D.J., Reecy, J.M., De Donato, M. and Imumorin, I.G. Genome-wide linkage disequilibrium patterns in

ten cattle breeds. 4th International Conference on Quantitative Genetics, Edinburgh, UK. July 14 -18, 2012.

125. **Peters, S.O.**, Kizilkaya, K., Fernando, R.L., Garrick, D.J., Pollak, E.J., De Donato, M. and Imumorin, I.G. Model comparison for genetic parameter estimates of birth and weaning weight traits in beef cattle. Joint ADSA-AMPA-ASAS-CSAS-WSASAS Annual Meeting, Phoenix, AZ. July 15 – 19, 2012.
126. Wheto, M., Sanni, T., Onasanya, G.O., Adefenwa, M.A., Agaviezor, B.O., Ikeobi, C.O.N., Okpeku, M., Yakubu, A., **Peters, S.O.**, Ekundayo, J.O., Ozoje, M.O., De Donato, M and Imumorin, I.G. 2012. Identification of single nucleotide polymorphisms in TLR1, TLR2, TLR3 and TLR5 genes in Nigerian goats. 20th International Conference on Plant and Animal Genomes San Diego, CA. January 14 -18. 2012.
127. Ajayi, O.O., De Donato, M., Ikeobi, C.O.N., **Peters, S.O.**, and Imumorin, I.G. 2012. Prediction of epigenetic features of putative imprinted genes on bovine chromosome 29. 20th International Conference on Plant and Animal Genomes, San Diego, CA. January 14 -18. 2012.
128. Imumorin, I.G, Adefenwa, M.A., Ajayi, O., De Donato, M., and **Peters, S.O.** 2012. In-silico analysis of a cluster of genes on bovine chromosome 2 in a region with imprinted QTL effects on growth. 20th International Conference on Plant and Animal Genomes, San Diego, CA. January 14 -18. 2012.
129. Imumorin, I.G, Adefenwa, M.A., Ajayi, O., De Donato, M., and **Peters, S.O.** 2012. Molecular cloning and tissue expression of the IWS1 gene in an imprinted region on Bta2 with effect on postnatal growth. 20th International Conference on Plant and Animal Genomes, San Diego, CA. January 14 -18. 2012.
130. Takeet, M.I., De Donato, M., Fagbemi, B.O., Yakubu, A., **Peters, S.O.**, Wheto, M., and Imumorin, I.G. 2012. Molecular identification of trypanosomes in naturally infected Nigeria cattle. 20th International Conference on Plant and Animal Genomes, San Diego, CA. January 14 -18. 2012.
131. Ruldolfo, H., De Donato, M., **Peters, S.O.**, and Imumorin, I.G. 2012. Sequence conservation and expression pattern of Necdin gene in cattle, sheep and goats. 20th International Conference on Plant and Animal Genomes, San Diego, CA. January 14 -18. 2012.
132. De Donato, M., **Peters, S.O.**, and Imumorin, I.G. 2012. Predicted controlling element motifs using conserved sequences in mammalian imprinted gene reveal evolutionary differences. 20th International Conference on Plant and Animal Genomes, San Diego, CA. January 14 -18. 2012.
133. **Peters, S.O.**, Thomas, M.T., Yakubu, A., Takeet, M.I., De Donato, M., and Imumorin, I.G. 2012. Extent of whole genome linkage disequilibrium in US Brangus

heifers. 20th International Conference on Plant and Animals, San Diego, CA. January 14-18. 2012.

134. Yakubu, A., De Donato, M., **Peters, S.O.**, Okpeku, M., Wheto, M., Agaviezor, B.O., Amusan, S. A., Ilori, B.M., Ajayi, O.O., Onasanya, G.O., Sanni, T., Adefenwa, M.A., Agaviezor, B.O., Ikeobi, C.O.N., Takeet, M.I., Salako, A.E., and Imumorin, I.G. 2012. Molecular genetic diversity at the MHC-DQB1 locus in Nigerian indigenous goats. 20th International Conference on Plant and Animal Genomes, San Diego, CA. January 14-18. 2012.
135. Hulsman, L.L., **S.O. Peters**, J.O. Sanders, A.D. Herring, C.A. Gill and D.G. Riley. 2011. Prediction of genomic estimated breeding values for temperament at weaning in *Bos indicus* crossbreds using Bayesian inference. J. Anim. Sci. 89: (E Suppl. 1).
136. De Donato, M., **S.O. Peters** and I.G. Imumorin. 2011. Comparative sequence analysis of imprinting controlling elements in 36 putatively imprinted bovine genes. 19th International Conference on Plant and Animal Genomes San Diego, CA. January 15-19, 2011.
137. Adefenwa. A. A., B. Oboh, M. Wheto, C.O.N. Ikeobi, K. Adekoya, M. Okpeku, **S.O. Peters** and I.G. Imumorin. 2011. Polymorphisms in the agouti signaling protein (ASIP) gene in Nigerian indigenous goats. 19th International Conference on Plant and Animal Genomes San Diego, CA. January 15-19, 2011.
138. Adefenwa. A. A., Oboh, B., Wheto, M., Ikeobi, C.O.N., Adekoya, K., Okpeku, M., **Peters, S.O.** and Imumorin, I.G. 2011. Association of polymorphisms in melanophilin gene and coat color variation in Nigerian goats. 19th International Conference on Plant and Animal Genomes, San Diego, CA. January 15-19, 2011.
139. Agaviezor, B.O., **S.O. Peters**, O.A.Adebambo, M.O.Ozoje, C.O.N. Ikeobi, M.Okpeku, M. Wheto and I.G. Imumorin. 2011. Genetic diversity of Nigerian sheep based on microsatellite DNA markers. 19th International Conference on Plant and Animal Genomes, San Diego, CA. January 15-19, 2011.
140. Agaviezor, B.O., **S.O. Peters**, O.A. Adebambo, C.O.N. Ikeobi, M. Ilori, M. Wheto and I.G. Imumorin. 2011. Mitochondrial DNA analysis of genetic diversity of Nigerian Sheep. 19th International Conference on Plant and Animal Genomes, San Diego, CA. January 15-19, 2011.
141. **Peters, S. O.**, K. Kizilkaya, D. J. Garrick, R. L. Fernando, J. M. Reecy, Z. L. Hu, R. L. Weaver, G. A. Silver and M. G. Thomas. 2010. Bayesian QTL inference and gene identification for first service conception rate in Brangus heifers. J. Anim. Sci. Vol. 88: (E-Suppl. 2):
142. Thomas, M.G., K.L. DeAtley, **Peters, S.O.**, Silver, G.A., ClayShulte, A.M. 2010. Genomic information for physiologists. J. Anim. Sci. 88: (E Suppl. 2): 261.

143. Thomas, M. G., **S. O. Peters**, K. Kazilkaya, D. J. Garrick, R. L. Fernando, J. M. Reecy, Z. Hu, F. D. Shilkey, R. L. Weaber, and G. A. Silver. 2010. QTL, Hypothalamic-transcriptome, and candidate gene query suggest bovine chromosome 2 harbors information for heifer pregnancy. 18th International Conference on Plant and Animal Genomes, San Diego, CA. January 9-13, 2010.
144. **Peters, S. O.**, K. Kizilkaya, D. J. Garrick, R. L. Fernando, J. M. Reecy, R. L. Weaber, G. A. Silver, and M. G. Thomas. 2010. Bayesian QTL Inference from whole genome growth and carcass analyses in Brangus heifers. 18th International Conference on Plant and Animal Genomes, San Diego, CA. January 9-13, 2010.
145. Ozoje, M.O. and **S.O. Peters** 2006. Biometrics in Core Agriculture Programs, University of Agriculture, Abeokuta, Nigeria. International Workshop on Biometrics and Research Methods, University of Cape Town, South Africa, June 25 – July 2 , 2006.
146. **Peters, S.O.** M.O. Ozoje and O.A. Adelowo. 2005. Estimation of body weight from linear body measurements in crossbred chickens. 9th Bi-Annual Conference of the Sub-Saharan African Network (SUSAN) of International Biometrics Society (IBS) Ethiopian Institute of Agricultural Research, Addis Ababa, Ethiopia, 12-16th December, 2005.
147. Ozoje, M.O., **S.O. Peters** and Adetoro, P.O. 2005. Modeling the growth pattern of West African Dwarf sheep in the first year of life. 9th Bi-Annual Conference of the Sub-Saharan African Network (SUSAN) of International Biometrics Society (IBS) Ethiopian Institute of Agricultural Research, Addis Ababa, Ethiopia, 12-16th December, 2005.

Papers presented/ co-presented since I arrived at Berry College