

SUNDAY PETERS, PhD

Dept. of Animal Science, Berry College, Mount Berry, GA 30149
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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.

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

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 (2015-2018)
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 37 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: 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: 01/01/2018 – 12/31/2019

Amount: \$149,601

Role: Principal Investigator

Title: Imprinted Gene Discovery and Regulation in *Bovidae*

Agency: National Science Foundation – Molecular and Cellular Biosciences Program

Amount: \$1,709,589

Duration: 08/01/2014 – 07/31/2018

Role: Collaborator

Identify novel bovine imprinted genes, validate imprinting status in multiple tissues at various developmental stages, examine the hypothesis of gene imprinting changes with genetic distance, help elucidate evolution of imprinting in *Bovidae* and provide crucial insights into epigenetic control of developmental end points of growth, fertility and other life history traits in cattle.

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. *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
3. *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.
4. *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.

5. *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
6. *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
7. *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
8. *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 hypervariable region 1 diversity in Nigerian goats. Animal Genetic Resources 59: 47 -54.
9. *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
10. *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
11. *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: 1038/ Srep 31109.
12. *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
13. *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

14. *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.
15. ***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.
16. *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.
17. *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.
18. *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.
19. ***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.
20. *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.
21. *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.
22. *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*.

23. 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.
24. 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.
25. 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.
26. **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
27. **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
28. 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
29. 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.
30. 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.
31. 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

32. 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.
33. 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.
34. 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.
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