

# CURRICULUM VITAE

**Paul B Drummond, PhD**

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## **SUMMARY**

### **Teaching:**

Introduction Biology, General Biology, Microbiology, Nutrition and Environmental Science

## EDUCATION

**Postdoctoral Fellow** 2004-2006

Department of Infectious Diseases and Pathology, University of Florida,  
Gainesville, FL 32608

**Ph.D. Molecular Parasitology** 2004

Department of Medical Microbiology and Parasitology, University of  
Georgia, Athens, Georgia 30602-7387

**MS Animal and Poultry Science** 1996

Department of Agricultural Sciences, Tuskegee University, Tuskegee  
Alabama 36088.

**BS (Magna Cum Laude) Animal and Poultry Science** 1993

Department of Agricultural Sciences, Tuskegee University, Tuskegee  
Alabama 36088.

## CERTIFICATIONS

Introduction to Computational Thinking- Workshop 7/25 – 31, 2010  
Houston Community College- Central – National Computational  
Science Institute

Silencing Genomes RNAi Follow-up Workshop, Houston Community 8/19-20, 2010  
College, Houston, TX

Certificate in Silencing of Genome using RNAi : Cold Spring Harbor, NY 2009

Teaching and Learning Effectiveness Houston Community College 2008

Basic Certificate Instruction Technology Houston Community College 2008

## TEACHING EXPERIENCE

### **Prairie View A&M University**

Adjunct Faculty: Instructor: General Biology /Microbiology 01/2011 – Present

### **DeVry University Online**

Adjunct Faculty Biology 140 with lab 06/2009 – Present

### **Houston Community College (Southwest) Houston, TX 77081**

Adjunct Faculty: Instructor: General Biology /Microbiology/ Tutor 08/2007 – Present

**Houston Community College (Northwest)** Houston, TX 77084  
Adjunct Faculty: Instructor: General Biology/Nutrition 01/2009 – 12/2009

**Lone Star State (Cy-Fair)**, Cypress, TX 77433  
Adjunct Faculty Instructor: Nutrition 06/2008-7/2008

**American InterContinental University**, Houston, TX 77042  
Adjunct Faculty Instructor: General Biology /Environmental Science 03/2008 – Present

**Santa Fe Community College** Gainesville, FL 32606  
Adjunct Faculty Instructor: Introduction to Biology 01/2005 – 06/2006

**Tuskegee University**, Tuskegee, Alabama 36088  
Laboratory Instructor in Poultry science 1993 – 1999

**Knockalva Agricultural College**, Ramble P. O, Hanover, Jamaica.  
Instructor in Biology and Animal Science 1988 – 1990

### RESEARCH EXPERIENCE

**Scientist** 07/2006 - 04/2007  
SeqWright Biotech Company, Houston, Texas  
Testing clinical sample using various methodology  
Conduct gene expression and Genome-typing studies

**Post-Doctoral Fellow in Pathobiology** 06/2004- 06/2006  
University of Florida, Gainesville, Florida  
Mechanism of Antigenic Variation in *Babesia bovis*

**Research Assistant in Molecular Parasitology** 1999-2004  
University of Georgia, Athens, Georgia  
Gene identification and characterization of erythrocyte-binding proteins (EBP) in *Plasmodium falciparum*

**Research Associate in Molecular Genetics** 1997-1999  
Tuskegee University, Tuskegee, Alabama  
DNA sequencing of turkey genomic library  
Development and characterization of expressed sequence Tags, for the turkey genome and comparative sequence analysis.

**Research Assistant in Molecular Genetics Tuskegee** 1993-1996  
University, Tuskegee, Alabama  
Search for molecular markers for semen ejaculate volume in turkeys.  
Characterization of avian species using DNA fingerprinting

**Research Assistant** 1991-1993  
Waste Management Sub-Group NASA Tuskegee University, Tuskegee, Alabama  
Search for indigenous Sweet potato micro flora for Bio-degradation activity  
Identification of the different type of micro flora

### LABORATORY SKILLS

DNA and RNA isolation from tissues and fluids  
Restriction enzymes digest e.g. *BamHI*, *Bgl II*, *HindIII*, *HinfI*, etc.  
Hybridization (Southern, Northern and Western Blot analyses)  
Polymerase Chain Reaction Techniques (RAPD, Microstat.)  
DNA cloning and sequencing, HPLC, Cell Culture  
RNA Analysis (Real Time PCR, Microarray and Genome-typing studies)  
Protein Analysis (SDS-PAGE, ELISA, Expression studies, etc)

#### ACADEMIC AWARDS and HONORS

University of Florida Postdoctoral Fellowship (2004-2006)  
University of Georgia Research Assistant (1999-2004)  
Tuskegee University Research & Teaching (1993-1996)  
Tuskegee University AMOCO Award (1992-1993)  
Tuskegee University Deans List, Honor Roll (1992-1993)  
All American Scholars (1992, 1996)

#### PUBLICATIONS

Agata Źupańska<sup>1</sup>, Paul B. Drummond<sup>1,2</sup>, Daniele Swetnam, Basima Al-Khedery, and David R. Allred, 2009. Universal primers suitable to assess population dynamics reveal apparent monoallelic transcription of the *Babesia bovis* *ves1* alpha gene. *Mol Biochemical Parasitol.*, Jul; 166(1):47-53. *Epub* 2009 Feb 25.

Ray SA, Drummond PB, Shi L, McDaniel GR, Smith EJ, 2006. Mutation analysis of the aggrecan gene in chickens with tibial dyschondroplasia. *Poult Sci* Jul; 85 (7):1169-72.

Drummond, P. B. and D.S. Peterson. 2005. An analysis of genetic diversity within the ligand domains of the *Plasmodium falciparum* *ebf-1* gene. *Mol. and Biochemical Parasitol.*, vol.,140 (2):241-245.

Smith EJ, Shi L, Drummond P, Rodriguez L, Hamilton R, Ramlal S, Smith G, Pierce K, Foster J. 2001. Expressed sequence tags for the chicken genome from a normalized 10-day-old White Leghorn whole embryo cDNA library: 1. DNA sequence characterization and linkage analysis. *J Hered*; 92(1): 1-8.

Powell E., Shi L., P. B. Drummond and Smith E. 2001. Frequency and distribution in three ethnic populations of single nucleotide polymorphisms in the MICA gene. *Mut. Res. Genomics*; 432: 47-51.

Smith E, Shi L, Drummond P, Rodriguez L, Hamilton R, Powell E, Nahashon S, Ramlal S, Smith G, Foster J. 2000. Development and characterization of expressed sequence tags for the turkey (*Meleagris gallopavo*) genome and comparative sequence analysis with other birds. *Anim Genet* 31(1): 62-7

Shi L., Drummond P. and S. De Kloet, Pimentel-Smith GE, Smith EJ. 2000. Comparative DNA sequence analysis of genetic variation in the African Grey Parrot, *Psittacus erythacus*. *Genetica*; 110(3):227-30.

Pimentel-Smith GE; Shi L., Drummond P., Tu Z, Smith E. J. 2000. Amplification of sequence tagged sites in five avian species using heterologous oligonucleotides. *Genetica*; 110(3) 219-26.

Nahashon S. N., Ayorinde, K. L., Drummond, P. B., DAWES, M and E. J. Smith. 1999. Heterosis for Growth Related Traits in White Plymouth Rock and Single Comb White Leghorn Reciprocal Crosses Reared Under Two Crude Protein Regimens. *J. Anim. and Feed Sci.* pg. 51-61.

Drummond, P.B. Gbadamosi, K. Butler, D. Vaughn, Y. Song, and E. J. Smith. 1997. Isolation of Genomic DNA from Claw clippings for genetic analysis in chickens. *Biotechniques* 22:874-876.

Smith E. J., S. A. Ray, and P. B. Drummond, 1996. A MboI polymorphism in the turkey revealed by (TCC5) single primer amplified DNA fragment. *Anim Genet* 27:5-6.

### **PROFESSIONAL ACTIVITIES**

Gama Sigma Delta, the Agricultural Honor Society (Tuskegee University Chapter)  
The American Association for the Advancement of Science

### **CONFERENCE ATTENDANCE AND PARTICIPATION**

Molecular Parasitology Meeting XVI, Woods Hole, MA, 2005

Molecular Parasitology Meeting XIII, Woods Hole, MA, 2002

The 12th Annual Molecular Parasitology/Vector Biology Symposium,  
Athens, GA, 2002

The 11th Annual Molecular Parasitology/Vector Biology Symposium,  
Athens, GA, 2001

Association of Research Directors, inc. Eleventh Biannual research  
Symposium, San Antonio, TX 1997

Biotechnology at 1890 Institutions Symposium, Florida A & M,  
Tallahassee, Florida, 1995

Tuskegee University Chapter of Sigma xi, Tuskegee, Alabama, 1993 and 1995  
Association of Research Directors, inc. Tenth Biannual research Symposium, New Orleans, LA.  
1994