

CURRICULUM VITAE

GEORGINA ANKRA-BADU

Sex: Female

Place of Birth: Dallas, TX

Office Address:

1665 University Boulevard
Department of Biostatistics
Ryals Public Health Bldg
Phone: 205-975-9217
Fax: 205-975-2540
Email: gbadu@ms.soph.uab.edu

Home Address:

1608 14th Ave S
Apt. 3C
Birmingham, AL 35205
Phone: 205-747-2292
Cell: 706-254-1406

EDUCATION

Ph.D. 2006

Department of Poultry Science/Institute of Bioinformatics
University of Georgia, Athens, GA

Major: Genetics, Genome Analysis & Bioinformatics

Dissertation: *Genetic Architecture of the Chicken Genome*

MSc. 2003

Department of Poultry Science
University of Georgia, Athens, GA

Major: Quantitative and Population Genetics

Thesis: *Modeling and genetics of parameters affecting phytate phosphorus bioavailability in growing birds*

BSc. 1999

Department of Animal Science
University of Ghana, Legon

RESEARCH FOCUS

Mapping and modeling the effects of quantitative trait loci and their interactions on age-related body weight and obesity related traits in mice and chickens via Bayesian methodology.

RESEARCH EXPERIENCE

Postdoctoral training: National Institutes of Health Postdoctoral Fellow (T32), 2007- Present

Graduate Research Assistant, 2001-2006

1. Characterization of CpG islands at Quantitative Trait Loci “regions” in the chicken genome
2. Quantitative Trait Loci Analysis: Growth and Body Composition.
3. Comparative Genomic Analysis: Orthologous comparison of genomes.
4. Quantitative Modeling and Estimation of Genetic Parameters

TEACHING EXPERIENCE

Graduate Teaching Assistant

1. POUL3720 Poultry Genetics and Breeding, Spring, 2005
2. POUL2050 Poultry Judging, Fall, 2005
3. POUL2020 Introductory Poultry Science, Fall, 2004
4. POUL4010 Advanced Broiler Production, Fall, 2003

Awards and Honors

Prof. Sai Award for Best Female Student in Agricultural Sciences, 1997

PUBLICATIONS

1. Referred Journals

Ankra-Badu, G.A., E. Le Bihan-Duval, F. Pitel, C. Beaumont, M.J. Duclos, J. Simon, W. Carre, T.E. Porter, A. Vignal, L.A. Cogburn and S.E. Aggrey, 2006. Quantitative trait loci for growth and skeletal traits in meat-type chicken. (Submitted).

Aggrey, S.E., **G.A. Ankra-Badu**, E. Le Bihan-Duval, W. Carre, F. Pitel, A. Vignal, C. Beaumont, M.J. Duclos, J. Simon, T.E. Porter and L.A. Cogburn, 2006. Molecular dissection of fatness and body composition: An integrated approach

using genome-wide scan, cDNA microarray expression and orthologous comparison. (Submitted)

Ankra-Badu, G.A. and S.E. Aggrey, 2005. Identification of candidate genes at quantitative trait loci on chromosome Z using orthologous comparison of chicken, mouse and human genomes. *In Silico Biology* 5:593-604.

Ankra-Badu, G. A., S. E. Aggrey, G.M. Pesti, R.I. Bakalli, W. Zhang and H.M. Edwards, Jr., 2004. Modeling of parameters affecting phytate phosphorus utilization in growing birds. *Poultry Science* 83:1083-1088.

Aggrey, S. E., **G. A. Ankra-Badu,** and H. L. Marks, 2003. Effect of long-term divergent selection on growth characteristics in Japanese quail. *Poultry Science* 82:538-542.

PENDING PUBLICATIONS

Ankra-Badu, G.A et al. Mapping epistatic QTL in a chicken population divergently selected for early and late growth: I. Body composition (In preparation)

Ankra-Badu, G.A, Shriner, D., Pomp, D., Allison, D.B. and Yi, N. Genetic influences on growth and body composition in mice: multilocus interactions

Shriner, D., I. Coulibaly, **G. Ankra-Badu,** T. M. Baye, and D. B. Allison. "Genetic Contribution to the Development of Obesity" in *Understanding Obesity: Biological, Psychological and Cultural Influences*, eds. Akabas, S. R., Aronne, L. J., Nonas, C. A., Pi-Sunyer, F. X., and Wadden, T. A. (Wadsworth Publishers, Belmont, CA).

Ankra-Badu, G.A. and S.E. Aggrey {Characterization of CpG islands in a QTL region for growth and body weight on chicken chromosome 4}

Ankra-Badu, GA, S.E. Aggrey, W. Zhang, R.I. Bakalli, G.M. Pesti and H.M. Edwards, Jr. {The genetics of factors affecting phytate phosphorus utilization}

2. Conferences and Refereed Proceedings

Society for the Advancement of Chicanos and Native Americans in Science, October, 2007 - Kansas City, MO

Network Minority Research Investigators (NMRI) Southern Region Workshop - October 3 and 4, 2007 - Atlanta, GA

7th Annual Short Course - Statistical Genetics for Obesity & Nutrition Researchers, May, 2007. Baylor College of Medicine. Houston, TX

Lister Hill Center Research Methods Workshop, March, 2007. Bayesian Inference via Markov Chain Monte Carlo Simulation: "Everything You Always Wanted to Know about Your Posterior but Were Afraid to Ask". University of Alabama at Birmingham, Birmingham, Alabama

Aggrey, SE., Pesti, GM, Zhang, W., **Ankra-Badu, GA.**, McMurtry, JP., Bakalli, RI and Edwards, H.M., 2005. Molecular and quantitative genetics aspects of phytate phosphate utilization in growing birds. Page 36-57. In: Proc. 54th Annual National Roundtable. US Poultry and Egg Association, St. Louis, MO

3. Abstracts and other Professional Papers Presented

Ankra-Badu, G.A., Shriner, D., Pomp, D., Allison, D.B. and Yi, N. Epistatic Interactions among quantitative trait loci affecting growth, body fat and weight in mice (To be presented at the Network of Minority Research Investigators Workshop, Atlanta, GA)

Ankra-Badu, G. A., H. L. Marks and S. E. Aggrey, 2002. The effect of long-term selection on growth characteristics in Japanese quail. Int. Poultry Scientific Forum, Atlanta

Ankra-Badu, G.A., S.E. Aggrey, G.M. Pesti, R.I. Bakalli, W. Zhang and H.M. Edwards, Jr., 2002. Model for Predicting Phytate Phosphorus Utilization in growing birds. Annual Poultry Science Meeting, Delaware.

Ankra Badu, G.A. and S.E. Aggrey, 2005. Identification of candidate genes at quantitative trait loci on chicken chromosome Z using orthologous comparison of chicken, mouse, and human genomes. *Poult. Sci.* 84: (Suppl 1)50.

References:

Dr. Sammy Aggrey
Associate Professor
Poultry Science Department/Institute of Bioinformatics
The University of Georgia
706.542.1354
Email: saggrey@uga.edu

Dr. Paul Schliekelman
Assistant Professor
Department of Statistics/Institute of Bioinformatics
The University of Georgia
706.542.4241
Email: pdschlie@stat.uga.edu

Dr. Gene Pesti
Professor
Poultry Science Department
The University of Georgia
706.542.1351
gpesti@uga.edu