

**Milton Barrington Daley, PhD**  
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## EDUCATION

- 2005-2009     Doctor of Philosophy Degree (Ph.D.) Animal and Poultry Science/Toxicology  
                  **Minor: Animal Health and Nutrition**  
                  **University of Guelph, Guelph, Ontario, Canada, N1G 2W1**
- Dissertation Title:* “Effects of feeding grains naturally contaminated with *Fusarium* mycotoxins on the performance and health of chickens and turkeys.”
- 2001-2003     Master of Science Degree (MSc.) in Animal Science  
                  **Prairie View A&M University**
- Thesis Title:* “A natural and viable alternative to antibiotic-based anticoccidial for the control of coccidiosis in poultry.”
- 1999-2001     Bachelor of Science Degree (BSc.) in Animal Science  
                  **Prairie View A&M University**
- 1992-1995     Associate of Science Degree - *Honors* (ASc.) in General Agriculture  
                  **College of Agriculture (Jamaica)**
- 1989-1992     Diploma-Distinction in General Agriculture  
                  **Knockalva Agriculture School (Jamaica)**

## CAREER SCOPE

### Current Appointments

**Assistant Professor-** Prairie View A&M University- College of Agriculture and Human Sciences (CAHS)

**Teaching:** Teach seven undergraduate courses each academic year. These courses include; General Animal Science, **ANSC 1513**, Dairy Science, **ANSC 2533**, Diseases and Sanitation, **ANSC 2543**, Food Microbiology, **FDSC 3593**, Meat Science **ANSC 3523**, Anatomy and Physiology **ANSC 3514** and Animal Nutrition, **ANSC 3503**.

**Academic Advisor:** Advise and mentor animal science and Pre-veterinary medicine students within the College of Agriculture and Human Sciences (CAHS). Evaluate students’ ability on practical and theoretical knowledge within each subject area. Prepare lectures for classes and conduct laboratory exercises within each subject area. Provide external experiential learning through field trips, conferences and symposiums each year.

**Research Scientist:** Write research grants proposals for funding through NIH, DOD, USDA and NIFA. Conceptualize, design, conduct and analyse *in vivo* and *in vitro* experimental trials. Publish research work in appropriate peer review journals and attend research conferences.

## **Research Experience**

### **Prairie View A&M University (PVAMU), Prairie View, Texas 77446, USA**

Research Scientist (May 2011- Present)

### **Department of Animal and Poultry Science / Biomedical Toxicology, University of Guelph, Ontario, N1G 2W1, Canada.**

Research/Teaching Assistant - Advance Nutrition (September 2005 – November 2008)

### **Alltech Biotechnology Inc., Nicholasville, Kentucky, USA**

Assistant Research Associate - Microbiology (June 2003 - May 2005)

### **College of Agriculture and Human Sciences (CAHS), Prairie View A&M University (Texas A&M System) Texas 77446, USA**

Graduate Research Assistant (August 2001- May 2003)

## **Teaching Experience**

### **Prairie View A&M University, Prairie View. Texas 77446**

Adjunct Professor and Research Scientist - Animal Sciences

March 15, 2010 to Present (Classes taught: Food Microbiology, Animal Nutrition; General Animal Science, Poultry Science, Poultry Technology and Marketing, Meat Science, Disease and Sanitation, Anatomy and Physiology and Dairy Sciences).

### **Department of Animal and Poultry Science / Biomedical Toxicology, University of Guelph, Canada.**

Teaching Assistant – Animal Nutrition and Toxicology

September 2005 – November 2008

### **Knockalva Agriculture School, Ramble, Hanover, Jamaica**

Teacher – Physics, Chemistry and Agricultural Science

Practical Teacher - Agronomy and Aquaculture

September 1995- December 1998

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## **Academic Awards & Honors**

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- Recipient of the Biomedical Toxicology Graduate Scholarship (2008)
- 1<sup>st</sup> minority recipient of the Deborah Whale/ Poultry Industry Council Scholarship (2007)
- Recipient of the Egg Farmers of Ontario, Thomas R. Graham Scholarship (2006)
- Recipient of the Biomedical Toxicology Graduate Scholarship (2005)
- Recipient of the Good Neighbor International Academic Scholarship (2002)
- Recipient of the Dr. Alfred Poindexter Academic Scholarship (2002)
- Recipient of the Prairie View A&M University Academic Scholarship (2000)
- Dean's List and Honor roll (1999 – 2001)

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## **Professional Membership and Leadership Service (International)**

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- **2016 - Present:** Member of the University IACUC Committee
- **2012 - Present:** Member of the University Core Curriculum Committee
- **2011 - Present:** Faculty advisor for the Pre-Veterinary Medicine Club
- **2013 - Present:** Associate Member of The Society of Toxicology
- **1996 -1998:** Past President for the Professional Animal Scientist Development Network for Agriculture Students (Jamaica)

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### Professional Accomplishments

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- Initiate the establishment of a memorandum of understanding (MOU) between PVAMU and Texas A&M University School of Veterinary Medicine.
- Three time finalist for the President George C. Wright Faculty Award (2014, 2015, 2016)
- Develop and implement core curriculum course for PVAMU/ CAHS 2014 (AGHR 1303).
- Inducted into the Society of Toxicology as an Associate Member based on recommendations and research in the field of Toxicology.
- Pioneered research at Prairie View A&M University and Alltech Biotechnology Inc. on the probiotic biomass (NatuStat™) as an alternative to antibiotic based drug used to improve growth production in birds infected with coccidiosis.
- Advisor, Chair and committee member for Masters student in Animal Science Program.
- Design, construct and implement an aquaculture farm for Knockalva Agriculture School, Jamaica.
- Science teacher of the year (1998) Knockalva Agriculture School, Jamaica.

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### National and International Published Abstracts and Presentations

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- *A comparison of AVATEC, Bacitracin and Yeast Culture Residue on the performance of broiler chicken reared on recycled litter.* **M. Daley**, A. Kirven, V. G. Stanley and C. Grey. Prairie View A&M University. 2003. (Poultry Science Association Annual Meeting)
- *The impact of aflatoxin in feed on coccidian infection in broiler chicken.* **M. Daley**, V. G. Stanley and C. Grey. Prairie View A&M University. 2003. Association of Research Directors (ARD) meetings
- *Comparative effects of Monensin, Salinomycin and Yeast Culture Residue on the performance of broiler chicken infected with coccidiosis.* **M. Daley**, A. Kirven, V. G. Stanley and C. Grey. Prairie View A&M University. 2004. Alltech Annual Symposium
- *The impact of Mycosorb™ on the suppression of dietary aflatoxin on the performance of broiler breeder hens.* **M. Daley**, V. G. Stanley, C. Dunkley, and A. Sefton. Prairie View A&M University, Alltech, Guelph Canada. 2004. (Southern Conference on Avian Diseases)
- *Impact of Yeast Culture Residue on the suppression of dietary aflatoxin on the performance of broiler breeder hens.* **M. Daley**, V. G. Stanley, C. Dunkley, C. Gray, and A. E. Sefton. Prairie View A&M University, Alltech, Guelph Canada. 2004. (Poultry Science Association Annual Meeting)
- *The impact of a natural alternative to coccidiostats in the control of Eimeria in growing broiler chickens.* **M. Daley**, L. A Tucker, V. G. Stanley, and A. E. Sefton. Prairie View A&M University, Alltech, Guelph Canada. 2004. (World poultry congress, Istanbul, Turkey)
- *A natural and viable alternative to coccidiostats in the control of Eimeria in growing broiler chickens.* **M. Daley**, V. G. Stanley, and A. E. Sefton. Prairie View A&M University, Alltech, Guelph Canada. 2006. (78<sup>th</sup> Northeastern Conference on Avian Diseases)
- *Effects of source and levels of trace minerals on poultry performance.* **M. Daley**, A. E. Sefton and S. Leeson. University of Guelph, Guelph, Ontario, Canada, Alltech, Guelph Canada. 2008. (Poultry Science Association Annual Meeting)
- *Effect of glucomannan mycotoxin adsorbent on the performance and organ weights of broiler chickens fed Fusarium mycotoxin-contaminated diets.* **M. B. Daley**, S. Leeson, H. J. Boermans, and A. E. Sefton; University of Guelph, ON, Canada, Alltech Inc., Guelph, ON, Canada. 2009. (Poultry Science Journal 2009 87: 42 -44)

- *Effects of glucomannan mycotoxin adsorbent on blood parameters and intestinal morphometric of broiler chickens fed Fusarium mycotoxin-contaminated diets.* **M. B. Daley**, S. Leeson, H. J. Boermans, and A. E. Sefton; University of Guelph, ON, Canada, Alltech Inc., Guelph, ON, Canada. 2009. Poultry Science Journal.

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#### **Published Papers**

- *Single and Combined Effects of Organic Selenium and Zinc on Egg, Fertility, Hatchability, and Embryonic Mortality of Exotic Cochin Hens;* V.G. Stanley, K. Hickerson, **M. B. Daley**, M. Hume and A. Hinton Agrotechnol 2012; 2:106. Doi: 10.4172/2168-9881.1000106.
- *Evaluation of Two Laying Systems (Floor VS Cage) on Egg Production, Quality and Safety;* V.G. Stanley, D. Nelson and **M. Daley**. Agrotechnol 2012; 1:103. Agrotechnol 2:109. doi: 10.4172/2168-9881.1000109
- *Effects of Organic Selenium and Zinc on the Aging Process of Laying Hens;* V.G. Stanley, P. Shanklyn, **M. Daley**, C. Gray, V. Vaughan, A. Hinton Jr. and M. Hume Agrotechnol 2012; 1:103. Doi: 10.4172/2168-9881.1000103.
- *An alternative to antibiotic-based drugs in feed for enhancing performance of broilers grown on Eimeria spp. infected litter.* Stanley, V. G., C. Gray, **M. Daley**, W. F. Krueger, and A. E. Sefton. 2004. Poult. Sci. 83:39–44.
- *The impact of yeast culture residue on the suppression of dietary Aflatoxin on the performance of broiler breeder hens.* Stanley, V. G. M. Winsman, C. Dunkley, T. Ogunleye, **M. Daley**, W. F. Krueger, A. E. Sefton, and A. Hinton, Jr. 2004. J. Appl. Poult. Res. 13: 533-539.

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#### **Manuscripts in revision for publication- Ph.D.**

- *Effects of feeding grains naturally contaminated with Fusarium Mycotoxins and the efficacy of polymeric glucomannan mycotoxin adsorbents on the performance and metabolism of broiler chickens.* **M. B. Daley**, S. Leeson, H. J. Boermans, and A. E. Sefton\*; University of Guelph, ON, Canada, Alltech Inc\*, Guelph, ON, Canada
- *Effects of feeding grains naturally contaminated with Fusarium mycotoxins on the performance and health parameters of broiler chickens challenged with Eimeria species.* **M. B. Daley**, S. Leeson, H. J. Boermans, and A. E. Sefton\*; University of Guelph, ON, Canada, Alltech Inc\*, Guelph, ON, Canada
- *Effects of feeding various mycotoxin diets on the performance and health parameters of turkey poults challenged with Eimeria species.* **M. B. Daley**<sup>1</sup>, S. Leeson<sup>1</sup>, H. J. Boermans<sup>1</sup>, and V.G. Sanley<sup>2</sup>; University of Guelph, ON, Canada, Prairie View A&M University<sup>2</sup>

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#### **Current Grant and Proposals (2013- present)**

- CoPI on “Increasing Student Enrollment in the College of Agriculture and Human Sciences”- USDA/NIFA (\$600K- **Funded**)
- CoPI on “Sustaining the forest and rangeland Resource for future generations” -NIFA (\$13500/yr. - **Funded**)
- CoPI on “Building collaborative partnership for assistance to socially disadvantaged and veteran

farmers and ranchers” USDA (400,000 **Funded**)

- CoPI on “Developing New and Beginning Farmers and Ranchers using the Model Farm Concept”- NIFA (\$590,000 **Funded**)
- CoPI on “One Kid at a Time: Recruiting A New Generation of Professionals in Agriculture and Human Sciences” USDA (600,000 **Not funded**)
- CoPI on “Effects of Animal Diet Supplementation on Quality of Value-Added Caprine Meat and Milk Products” USDA/NIFA (600,000 **Pending**)
- PI on “Producing Se-Enriched Goat Milk to Increase Consumers Acceptance” Internal Minigrant – PVAMU (20,000 **Funded then rescinded**)
- CoPI on “Building capacity within Extension to enhance nutrition and physical activity program delivery among underserved populations/communities” (\$522,712.00, 2017-2020 **Funded**)
- CoPI on “An integrated systems approach to enhance food safety, food security, and nutrition among individuals from low-income communities” USDA/NIFA (10,000,000 **Pending**)

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## References

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*Dr. Paul B. Drummond Ph.D.*

*Adjunct Instructor*

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