

# Laura A. Flatow

Department of Animal Science

Berry College

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## **Education**

B.S. Animal Science, Iowa State University, 2003

M.S. Animal Science, University of California, Davis, 2005

Thesis: The effect of arginine supplementation on the chicken humoral immune system

Ph.D. Nutritional Biology, University of California, Davis, 2010

Dissertation: Amino acid requirements of proliferating chicken lymphocytes

## **Work Experience**

Assistant Professor, Berry College, Mount Berry, GA, 2013 – present

Responsibilities involve teaching courses and their corresponding lab sections in the Department of Animal Science including Anatomy and Physiology, Nutrition, Immunology, and Freshmen Seminar, serving as an academic advisor to undergraduate students, and serving on committees. Research is conducted in the area of dairy cattle immunology.

Visiting Assistant Professor, Berry College, Mount Berry, GA, 2012 – 2013

Responsibilities involve teaching courses and their corresponding lab sections in the Department of Animal Science including Introduction to Animal Science, Introduction to Agricultural Sciences, Feeds and Rations, and Anatomy and Physiology.

Postdoctoral Scholar, University of South Florida, 2010 - 2012

Performed research investigating the molecular mechanisms leading to the development of alcoholic liver disease. Utilized genetically modified mouse models as well as hepatocyte and macrophage cell lines to study the cell signaling pathways involved in ethanol mediated fat accumulation and inflammation in the liver. Assisted in the production of grants and manuscripts for publication.

Postdoctoral Researcher, University of California, Davis, 2010

Investigated the bioavailability of several dietary sources of copper for broiler chick growth. Work involved feeding chicks diets with varying levels and sources of copper and performing copper analysis on livers and tendons. Determined if cockatiels utilize vitamin D<sub>2</sub>. Chicks hatched from vitamin D deficient eggs were fed diets with varying levels of vitamin D<sub>2</sub> or D<sub>3</sub> and growth was measured.

Graduate Student Researcher, University of California, Davis, 2004 – 2010

Isolated chicken peripheral blood lymphocytes and optimized *in vitro* proliferation conditions to determine amino acid usage of proliferating lymphocytes. Work involved measuring amino acid depletion in cell culture media and supplementing single amino acids in lymphocyte cultures to determine the effect on proliferation.

Teaching Assistant, University of California, Davis, 2003 – 2009

Assisted with numerous courses in the Department of Animal Science including introduction to animal science, genetics and animal breeding, animal biochemistry and metabolism, companion animal science, comparative animal nutrition, and animal growth and development. Responsibilities included teaching laboratory and discussion sections, grading examinations, guest lecturing, and holding office hours and review sessions.

## **Publications**

Rivers, H.C. and **L.A. Flatow**. 2016. Natural Antibody Profiles during Early to Mid-Lactation in Jersey Cows. *Journal of Animal Science*. 95(S1):55.

Yin, H., M. Hu, R. Zhang, Z. Shen, **L. Flatow**, and M. You. 2012. MiR-217 promotes ethanol-induced fat accumulation in hepatocytes by down-regulating SIRT1. *Journal of Biological Chemistry*. 287(13): 9817-26.

Hu, M., R. Zhang, C.Q. Rogers, B. Finck, M.S. Mitra, X. Liang, H.E. Everitt, H. Yin, J.M. Ajmo, **L. Flatow**, and M. You. 2011. Hepatic-specific deletion of Lipin-1 aggravates alcoholic fatty liver in mice. *Hepatology*. 54 (Suppl. 1): 245A.

**Flatow, L.A.** and K.C. Klasing. 2008. Macrophage conditioned media enhances lymphocyte proliferation. *Poultry Science*. 87(Suppl. 1): 83.

Powers, W.J. and **L.A. Flatow**. 2002. Flocculation of swine manure: influence of flocculant, rate of addition, and diet. *Applied Engineering in Agriculture*. 18(5): 609-614.

## **Memberships**

Poultry Science Association

American Society of Animal Science

## **Courses Taught**

*Berry College*

Principles of Nutrition (ANS 328 I)

Anatomy and Physiology (ANS 326)

Immunology (ANS 492)

Orientation to Animal Science (ANS 201)

Livestock Feeding and Ration Formulation (ANS 200)

Introduction to Animal Science (ANS 120)  
Introduction to Agricultural Sciences (ANS 105)  
Freshmen Seminar (BCC 100)  
Honors Thesis I (HON 450)

## **Service**

### *Berry College*

Writing Across the Curriculum Committee (co-chair 2015-2016)  
Cultural Events Committee  
Council on Student Scholarship  
Student Life Council  
Libraries Committee  
Interdisciplinary Studies Committee  
School of Mathematics and Natural Science Scheduling Committee  
Search Committee, multiple Animal Science faculty positions  
FFA Club advisor  
Agricultural Club Council advisor