

# Cassandra Lamb

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## **Education:**

### **CORNELL UNIVERSITY | DOCTOR OF PHILOSOPHY IN ANIMAL SCIENCE | AUGUST 2021**

- Major: Animal Science; Minors: Nutrition, Endocrinology
- PI: Yves Boisclair
- Special Committee: Vimal Selvaraj, Joseph McFadden, Anna Thalacker-Mercer

### **WEST VIRGINIA UNIVERSITY | BACHELOR OF SCIENCE IN BIOCHEMISTRY | 2015**

- Major: Biochemistry through the Davis College of Agriculture, Natural Resources and Design
- 3.81 GPA on 4.0 scale
- WVU Honors College; 2015 WVU Outstanding Senior

## **Research and Professional Experience:**

### **WEST VIRGINIA UNIVERSITY | TEACHING ASSISTANT PROFESSOR | 2021 - PRESENT**

- Teach courses for the Intercollegiate Biochemistry Program and Animal & Nutritional Sciences Division as needed
- Advise students majoring in Biochemistry

### **WVU ADJUNCT INSTRUCTOR | 2020 - 2021**

- Intro-Biochemistry Wet Lab (AGBI 412); Fall 2020 & Spring 2021
- Senior Seminar in Biochemistry (AGBI 401); Spring 2021

### **CORNELL UNIVERSITY | DEPT OF ANIMAL SCIENCE | 2015 - 2021**

- PhD candidate in Dr. Yves Boisclair's laboratory. Research in physiological and hormonal mechanisms regulating insulin action in sheep.
- Served as GTA for several classes from Spring 2016 – Fall 2019

### **WEST VIRGINIA UNIVERSITY | DIVISION OF ANIMAL & NUTRITIONAL SCIENCES | 2014**

- Undergraduate research assistant in Dr. Joe McFadden's laboratory through SURE program. Research in understanding the differences in insulin sensitivity in lean and overweight transition dairy cows.

### **WEST VIRGINIA UNIVERSITY | HEALTH SCIENCES CENTER, DEPT OF BIOCHEMISTRY | 2013**

- Undergraduate research assistant in Dr. Alexey Ivanov's laboratory. Research in biochemical and molecular mechanisms that regulate gene expression during development and homeostasis, as well as disruptions of these mechanisms during tumor formation.

## **Activities/Awards:**

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|---|----------------|
| • WVU Biochemistry Club Faculty Co-Advisor                  | • 2022-PRESENT |
| • CALS Outstanding Graduate Teaching Assistant              | • 2020         |
| • Cornell Animal Science Grad Student Association Treasurer | • 2016-2018    |
| • Cornell Biotechnology Club Treasurer                      | • 2016-2017    |
| • WVU Honors SURE Program                                   | • 2014         |
| • American Farmer FFA Degree                                | • 2012         |

### **Manuscripts in Print:**

Krumm CS, Giesy SL, **Orndorff CL**, Boisclair YR. 2018. Variation in x-box binding protein 1 (XBP1) expression and its dependent endoplasmic reticulum chaperones does not regulate adiponectin secretion in dairy cows. *Journal of Dairy Science*.

Samii, S., Rico, J., Mathews, A., Davis, A., **Orndorff, C.**, Aromeh, L., McFadden, J. 2019. Effects of body condition score on direct and indirect measurements of insulin sensitivity in periparturient dairy cows. *Animal*.

Schalich KM, Reiff OM, Nguyen BT, **Lamb CL**, Mondoza CR, Selvaraj V. 2021. Temporal kinetics of bovine mammary IgG secretion into colostrum and transition milk. *Journal of Animal Science*.

**Lamb CL**, Giesy SL, McGuckin MM, Perfield JW 2<sup>nd</sup>, Butterfield A, Moniruzzaman M, Haughey NJ, McFadden JW, Boisclair YR. 2022. Fibroblast growth factor-21 improves insulin action in nonlactating ewes. *American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology*.

### **Manuscripts in Preparation:**

**Lamb CL**, Giesy SL, McGuckin MM, Ramos A, Ehrhardt RA, Reeves AP, Scrivani PV, Boisclair YR. Insulin action and adiposity during pregnancy and lactation in lean and obese ewes. In preparation.

### **Abstracts at Scientific Meetings:**

**Orndorff CL**, Rico JE, Saed Samii S, Mathews AT, Davis AN, and McFadden JW. 2014. Overweight transition dairy cows mobilize more adipose and have decreased insulin sensitivity compared with lean cows. West Virginia University Summer Undergraduate Research Symposium.