

Name and Area of Specialization

Bradley J. Johnson, PhD
Muscle Biology and Growth Physiology

In 250 words or less explain the nature of your research

Our laboratory focuses on research that increases our understanding of factors regulating growth and development of skeletal muscle in meat animals such as beef cattle. Our group has used exogenous growth promotants like steroidal implants and beta adrenergic agonists as models to study the mechanism of postnatal muscle growth in meat animals. More recently, our laboratory has focused on the effects of trace elements such as chromium and zinc on skeletal muscle growth in beef cattle.

Separately, the research team is involved in developing novel means to enhance marbling in beef. This research focuses on novel receptors present on intramuscular adipocytes that appear to have positive effects on lipid accumulation.

Do you accept undergraduates into you lab for research

YesXX No

Are you currently accepting undergraduates into your lab

Yes NoXX

Do you offer pay to undergraduate researchers

Yes XX No Depends (Explain:)

What is the undergraduate's role?

Part of a team Work independently BothXX

Other (Explain:)**How many hours/wk do you expect student to be in lab**

10-15

In 250 words or less, what are your expectations for an undergraduate researcher:

Be a team player. Help grad students and learn from our lab group.

Will Students be included in presentations and/or publication if they meet expectations?

YesXX No

Do you have any course prerequisites before students are accepted in your lab?

NO

How do you prefer for students to contact you to inquire about working in your lab?

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