

ND Beef Commission Research projects receiving payments in 2019-2020 fiscal year:

Category:

Projects approved 2015-16

\$48,494

- Does replacing sugar with beef during gestation prevent postnatal stunting and predisposition for obesity related metabolic disorders in a swine biomedical model
- Dr. Eric Berg, NDSU

Projects approved 2016-17

\$5,931

- Effect of maternal feed supplementation on adult and fetal muscle fibertype
- Dr. Eric Berg, NDSU

\$9,067.50

- Evaluation of imaging processing technology to predict outstanding beef flavor
- Dr. Rex Sun/ Dr. Eric Berg, NDSU

\$16,810.62

- Relationships among postmortem metabolism, tenderness and juiciness as affected by carcass size
- Dr. Rob Maddock, NDSU

Projects approved 2017-18

\$17,496.75

- Influence of ractopamine hydrochloride supplementation on the metabolome of skeletal muscle and impacts on meat quality in beef
- Dr. Kasey Carlin, NDSU

\$6,000

- Beef as a healthy alternative to a high sugar diet during pregnancy – effects on obesity and diabetes in the next generation
- Dr. Alison Ward, NDSU

Projects approved 2018-19

\$39,219

- Delineating the influence of the gut microbiota on the impact of regular beef consumption on training induced gains in muscle strength and performance in healthy adults
- Dr. Hannah Holscher, University of Illinois

\$130,168

- The effects of regular beef consumption as part of a whole foods diet on plasma inflammatory and cardiometabolic health signatures in middle-aged adults
- Dr. Stephan van Vliet, Duke University

(continued)

Funds approved 2019-20 – co-funded projects with NCBA

\$40,000

- Investigate the role of native beef collagenase on postmortem collagen degradation and beef tenderness
- Dr. Michael Chao, Kansas State University

\$75,000

- Assessment of the contribution of beef to the US dietary patterns
- Dr. Chris Taylor, Ohio State

\$35,000

- Investigating the impact of temperature during transport on fresh beef yield and color stability
- Dr. Judson Grubbs, South Dakota State University