Integrating heat stress metabolome with tissue function in swine, implication for growth and carcass quality

A Data Management Plan created using DMPTool

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Template: U.S. Department of Agriculture (USDA)

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Expected Data Type

- Data on animal performance, metabolomics analysis and tissue functional assays will be generated.
- Data type to be captured will reflect the effects of treatments on growth performance and feed efficiency. Data will be cpatured physiological parameters of animals under test. Some of these data include skin and rectal temperature, breathing rate, serum metabolite profile including hormones (insulin, IGF-1, blood urea nitrogen, free fatty acids, glucose). Functional response of tissue sin teh various functional assays proposed will be captured.
- Data will be subjected to statistical analysis an dresults will be summarized by treatment.
- Results will be presneted in figures and tables.
- A p value of 0.05 will be sued to determine significance of tests. P value between 0.05 and 0.01 will be considered as showing strong tendency.

Data Format

Raw metabolomics data will be stored as Excel files. Metaboloimics data will be summarized, and prsented graphically as well. Each figure genberated will have clear footnotes describing the context of teh experiment.

Data Storage and Preservation

Data will be shared directly in response to requests

Data Sharing and Public Access

Data will be shared only after the materials have been published in peer-reviewed publications

Roles and Responsibilities

Question not answered.

Monitoring and Reporting

Project and DMP will be monitored by NIFA. Dr. Ajuwon will be responsible for reviewing and revising the DMP