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Today's swine industry has shi ed from producing hog to producing pork, as producers are compensated for leaner pigs. A dependable and economical source of feed is the backbone of a pro table swine operation. Low income and rural swine producers are limited by today's high feed cost and are looking for a more sustainable pork production system. is study was to determine the e ect of grazing systems on meat quality, carcass traits and on lipid metabolism gene expressions. Contro pigs were fed 100% commercial diet. Fi y/ y (50/50) group was placed on 50% of the diet consumed by the control group plus free access to ryegrass-clover pasture. e twenty- ve/seventy- ve/(25/75) group was fed 25% of the diet consumed by the control plus access to free pasture. e overall meat quality (avor, overall acceptability and carcass traits (marbling, color) scored signi cantly higher (P<0.0.5) in the 25/75 group than in the control or 50/50 group. Back-fat was lower in 25/75 group (P<0.05) than in the control or 50/50 group. No di erences were observed between the control and 50/50 in meat and carcas qualities. Real-time PCR revealed that peroxisome proliferator-activated receptor (PPAR), peroxisome proliferator-activated receptor (PPAR), lipoprotein lipase (LPL) and sterol-regulatory-element-binding protein 2 (SREBP-2) responded di erently in muscle and adipose tissues. e results indicated that pasture-based pork production could upload lipid metabolism genes in muscle and adipose tissue important in reducing all production inputs, improving carcass traits and meat quality measures.

Biography

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