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iTRAQ-based quantitative proteomic analysis of longissimus muscle from growing pigs with dietary supplementation of non-starch polysaccharide enzymes

Key words: Non-starch polysaccharide enzymes, Longissimus muscle, Proteomics, Growing pigs

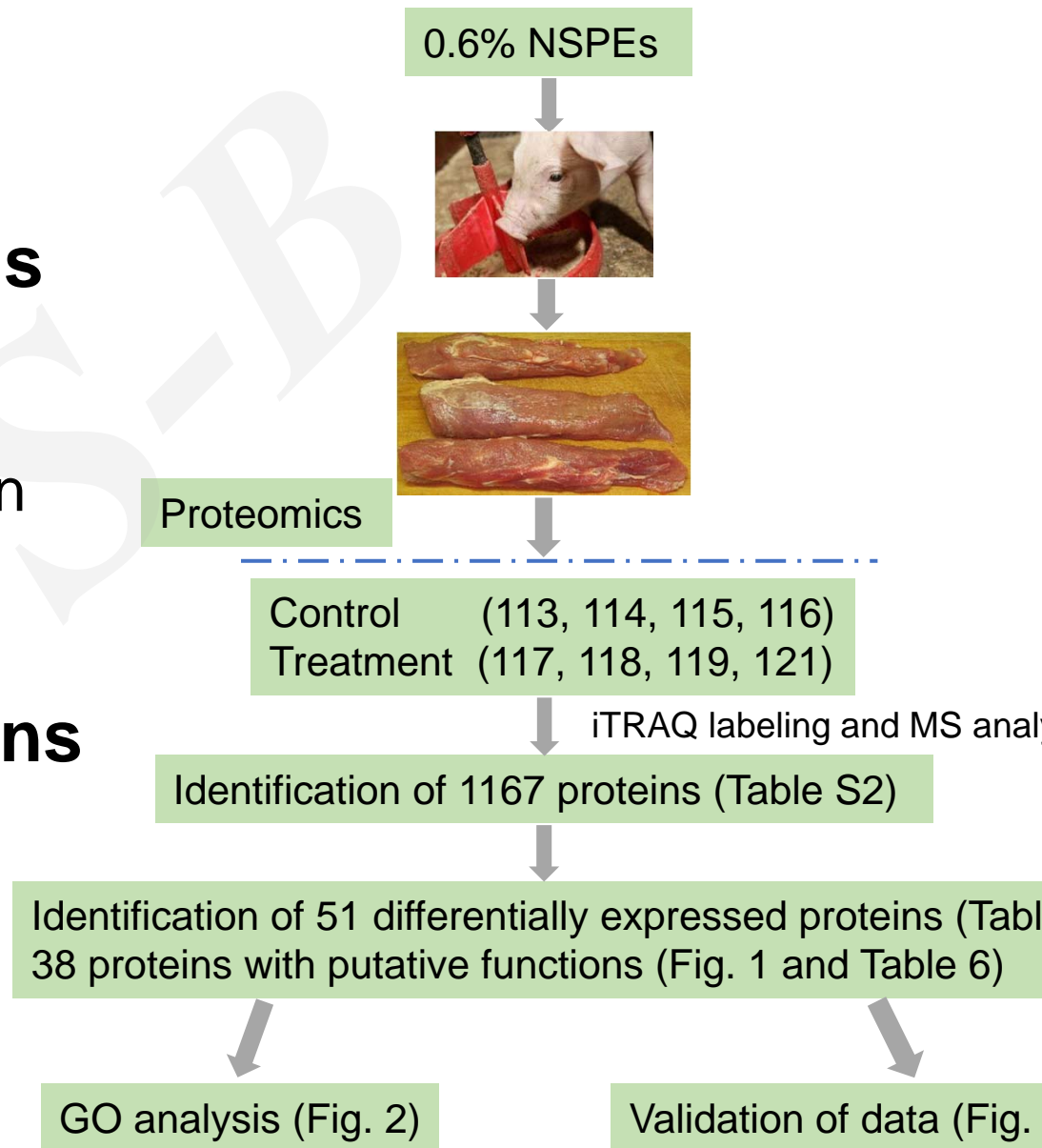
Research Summary

Categories of upregulated proteins

Energy production, protein synthesis,
Muscular differentiation, immunity, oxidation
Resistance and detoxification

Category of downregulated proteins

Inflammation



Innovation points

Application of iTRAQ based quantitative proteomic analysis in the effects of dietary NSPEs on longissimus muscle in growing pigs.

Various of proteins involved in multiple functions were found to be differentially expressed in longissimus muscle in growing pigs by supplementation of NSPEs.

Providing molecular mechanisms of the effects of dietary NSPEs on monogastric animals.

