Research Areas

Research activities in my laboratory have been directed towards exploring potential methods of improving animal growth performance and carcass composition based on our current understanding of the molecular mechanisms of action of growth regulation. Recent works are mostly related to myostatin, a potent negative regulator of skeletal muscle growth.

- Understanding of the mechanisms of action of myostatin in regulating skeletal muscle development and growth.
- Production of recombinant proteins interacting with myostatin, including myostatin prodomain, extracellular domain of activin type IIB receptors, follistatin and investigation of myostatin suppressing activity of those molecules in vitro and in vivo system.

In addition, we have been investigating the meat quality characteristics of locally produced, forage-finished beef, as well as exploring innovative ways to improve the marketability of low-value cuts of the forage-finished carcasses.

Publications

Refereed Journal Papers


34. Y.B. Lee and Y.S. Kim. 1994. Muscle characteristics and meat tenderness of


1. Matthew Stevenson, Yong Soo Kim, Glen Fukumoto, November 2012. Effects of Wet Aging and Age at Slaughter on Kauai Grass-Finished Ribeye Steak Tenderness (FST)-53