

R&D Snapshot

Manipulating Incretin Secretion from the Gastrointestinal Tract to Regulate Feed Intake in Pigs

Investigators: Associate Professor Brian Leury, The University of Melbourne

Purpose:

- To determine if manipulating the secretion of incretin hormones (a group of gastrointestinal hormones that effect glucose metabolism and satiety following a meal) impacts on nutrient partitioning by altering feed intake and improving the FCR.

Take home messages:

- Stimulation of the incretin axis by the use of sitagliptin (a compound used to manipulate the secretion of incretin hormones) successfully reduced feed take without altering the FCR suggesting that intake is reduced whilst weight gain remained stable
- However, this effect waned as the study progressed indicating the dose of sitagliptin to liveweight was not adequate to elicit a response
- It is recommended that further research be conducted with higher doses of sitagliptin which is thought will maintain the reduction in feed intake noted in the initial period of the study.

Additional information:

- For further information or a copy of the full report, please contact Robyn Terry at robyn.terry@australianpork.com.au on 02 6270 8820.

