**2019 Pain in Animals workshop**: Cross Species Measurement of Acute Pain

**October 2, 2019**

**Morning Sessions**

Overview and update since 2017 PAW

Current state of measuring acute pain

 Human acute pain

 Dog and cat acute pain

 Swine and bovine acute pain

 Equine acute pain

Panel Discussion

Break

Improving the ability to measure acute pain and the translational benefit

 Placebo effect in postoperative pain studies

Placebo research in human acute pain

Rodent models: pros, cons, reflexive, operant, spontaneous

Predictability of rodent models

 Panel Discussion

Lunch

 Lunch breakout sessions

1. Changing landscape of Food Animal welfare in relation to pain relief and treating acute pain conditions

or

1. Companion animal clinical study welfare perspective: consent forms, repeat study enrollment, long term follow-up, adverse events

**Afternoon Sessions**

Translational aspect of swine research

NIH perspective on translational aspect of non-rodent models of acute pain

Human perspective on use of acute pain models in companion animals

Panel Discussion

Break

Regulatory and Industry Perspective

 USDA perspective on analgesics in food animals for acute pain

 FDA/CVM on acute pain approval process in food animals

 FDA/CVM on acute pain approval process in companion animals

 Corporate perspective on analgesics for acute pain

Panel Discussion

Poster Session and reception

**October 3, 2019**

**Morning Sessions**

Acute pain measurement: Subjective

 How is a subjective assessment tool validated?

Canine and feline postoperative pain (POP) subjective measurement: questionnaires

Canine and feline POP subjective measurement: noxious stimuli, EEGs, fMRI

Food Animal acute subjective measurement: bovine lameness scale

 Panel Discussion

 Break

 Bovine POP subjective measurement, current status, gaps, pros, cons

 Swine POP subjective measurement, current status, gaps, pros, cons

 Subjective measurement in pediatrics, cognitively impaired: human perspective

 Facial pain assessment across species

 Panel Discussion

 Lunch

**Afternoon Sessions**

Acute pain measurement: Objective tools

 Pediatric objective measurement of acute pain

 Activity monitors

 Remote monitoring technology in Food Animals

 Kinetic evaluation of limb pain: companion animals

 Kinetic evaluation of limb pain: food animals

 Equine acute pain

Break

 Motivational Tests

 Complex behavioral assays

 Physiological measures across species

 Panel Discussion

Future Direction, Next Steps