NC STATE UNIVERSITY

Comparative Medicine Institute

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Title: Companion Animal models of Joint Disorders and Pain

Research emphasis:

Dr. Lascelles' research encompasses all areas of joint health and disease, including arthritis, mobility, sensory testing and pain management.
Joint disease and pain are tremendous public health concerns, both in terms of quality of life and financial burden of disease. Translational research is a critical step towards understanding and mitigating the long-term effects of disease. Companion animal models provide practical and clinically relevant insights into disease biology and neurobiology of associated pain, and are a relevant platform for the early testing of putative treatments, enhancing the transfer of knowledge from the "bench" to the "bedside".

Application :

- Arthritis
- Pain Management
- Models of Inflammation

Collaboration potential:

- Osteoarthritis
- Inflammatory arthritis
- Complex pain states
- Novel therapy testing

Selected publications:

Tomas A, Marcellin-Little DJ, Roe SCMotsinger-Reif A, **Lascelles BDX**. Relationship between mechanical thresholds and limb use in dogs with coxofemoral joint OA-associated pain and the modulating effects of pain alleviation from total hip replacement on mechanical thresholds. *Veterinary Surgery 2014 Feb 11. doi: 10.1111/j.1532-950X.2014.12160.x.* PMID: 24512340

Gruen M, Griffith E, Thomson A, Simpson W, **Lascelles BDX**. Detection of clinically relevant pain relief in cats with degenerative joint disease associated pain. Journal of Veterinary Internal Medicine, 2014 Mar-Apr;28(2):346-50. doi: 10.1111/jvim.12312. Epub 2014 Feb 10. PMID: 24512390

Ryan JM, **Lascelles BDX**, Benito J, Hash J, Smith SH, Bennett D, Argyle DJ, Clements DN. Histological and Molecular Characterisation of Feline Elbow Joint Osteoarthritis. *BMC Veterinary Research 2013 Jun 4;9:110. doi: 10.1186/1746-6148-9-110. PMID: 23731511*