NC STATE UNIVERSITY

Comparative Medicine Institute

Stephanie G. Cone

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Growth and Development of Orthopaedic Soft Tissues

Research emphasis:

Stephanie's research interests are centered around investigating age-dependent tissue structure and function in the skeletally immature knee. Currently, her studies focus on alterations in the structure-function relationship of the orthopaedic soft tissues such as the anterior cruciate ligament (ACL).

Applications:

- Pediatric and adolescent knee injuries
- Skeletally immature porcine model
- Orthopaedic tissue growth

Research Strengths:

- Multi-axial force testing
- Magnetic resonance imaging
- Computerized tissue segmentation

Publications and Abstracts:

Cone, SG, Piercy HE, Fordham LA, Piedrahita JA, Spang JT, Fisher MB. Variations in the relative size of the cruciate ligaments and menisci in the porcine stifle joint throughout skeletal growth. Summer Biomechanics, Bioengineering, and Biotransport Conference. 30 June 2016.

Cone SG, Fordham LA, Piedrahita JA, Spang JT, Fisher MB. Age dependent anatomical changes in the porcine anterior cruciate ligament. Poster: Orthopaedic Research Society Annual Meeting. 6 March 2016.

Cone SG, Fordham LA, Piedrahita JA, Spang JT, Fisher MB. Orientation and size changes in the porcine anterior cruciate ligament throughout skeletal growth. Podium: International Symposium on Ligaments and Tendons. 4 March 2016.