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## Comparative Immunology Research Laboratory

### Research emphasis:

Our laboratory focuses upon immune dysfunction in infectious and neoplastic disease. Currently our two major research areas are (1.) feline immunodeficiency virus (FIV) as a model for T cell immune dysfunction in HIV and (2.) examining macrophage and T cell dysfunction in canine osteosarcoma (OSA).

### Application :

- Comparative Immunology
- Immune dysfunction in
  - Infection
  - Neoplasia
- Flow Cytometry and Cell Sorting

### Collaboration potential:

- Animal Models of Immune dysfunction
- Applications of Flow Cytometry and Cell Sorting

### Selected publications:

J.L. Tuohy, B.D.X. Lascelles, E.H. Griffith, **J.E. Fogle**. *Canine osteosarcoma influences monocyte phenotype and chemotactic function*, J Vet Intern Med. Accepted March, 2016.

K. Meichner, **J. Fogle**, L. English, SE. Suter. *Expression of apoptosis-regulating proteins Bcl-2 and Bax lymph node aspirates in dogs with lymphoma*. J Vet Intern Med. Accepted February, 2016.

**Fogle JE**, Tarigo JL, Thalheim L, Williams LE, English LB, Suter SE. *CD45+ and CD45- lymphocyte populations identified by flow cytometry from dogs with lymphoma exhibit similar morphology and the same clonal (B cell or T cell) lineage*. Vet Immunol Immunopathol. 2015 Oct 22. pii: S0165-2427(15)30004-0. doi: 10.1016/j.vetimm.2015.10.004. [Epub ahead of print] PMID: 26553299

Miller MM, Akaronu N, Thompson EM, Hood SF, **Fogle JE**. *Modulating DNA methylation in activated CD8+ T cells inhibits Treg cell-induced binding of FoxP3 to the CD8+ T cell IL2 promoter*. J Immunol. 2015 Feb 1;194(3):990-8. doi: 10.4049/jimmunol.1401762. Epub 2014 Dec 29.