



Kristy Richards



Associate Professor
Department of Biomedical
Sciences

Education:
M.D. June 2001. Stanford
University, Stanford, CA

Ph.D. Genetics, Sept.
1997. Stanford University,
Stanford, CA

B.S. Biology, magna cum laude,
May 1990. Cornell University,
Ithaca, NY

Address:

Department of Biomedical Sciences
T8 004b Veterinary Research Tower,
Box 17
College of Veterinary Medicine
Cornell University
Ithaca, NY 14853

Phone: 607-253-3482

Email: kristy.richards@cornell.edu

www.faculty_url.com

Comparative Lymphoma Biology and Therapeutics

Research emphasis:

Dr. Richards' Lab is interested in understanding the similarities and differences between human and canine lymphoma, to improve therapeutic strategies in both species. We take both a genetic and genomic approach, using bioinformatics approaches as well cell and molecular biology validation to understand pathways of importance and strategies to blocking them. We are particularly interested in the WNT pathway and the B-cell receptor/NF-KB pathway.

Application:

- Canine lymphoma
- Comparative oncogenomics
- Experimental therapeutic development
- Genetic mapping

Collaboration potential:

- Canine clinical trials (with correlative studies)
- Development of new anti-lymphoma therapeutic agents
- Improved pre-clinical modeling of canine lymphoma (cell lines, organoids, and patient-derived xenografts)

Selected publications:

Richards KL, Motsinger-Reif AA, Chen H, Fedoriw G, Fan C, Nielsen DM, Small GW, Thomas R, Smith C, Dave SS, Perou CM, Breen M, Borst L, Suter SE. (2013) Gene profiling of canine B-cell lymphoma reveals germinal center and post-germinal center subtypes with different survival times, modeling human DLBCL. *Cancer Research*, 73(16):5029-5039.

Richards, , KL and Suter, SE. (2015) Man's best friend: What can pet dogs teach us about non-Hodgkin lymphoma? *Immunological Reviews*, 263(1):173-91.

Zhang, J, Grubor, V, Jacobs, C, Bannerjee, A, Richards, KL, Mieczkowski, P, Dunphy, CH, Choi, WWL, Au, WY, Srivastava, G, Lugar, PL, Rizzieri, DA, Largoo, AS, Bernal-Mizrachi, L, Mann, KP, Flowers, CR, Naresh, KN, Evens, AM, Gordon, LI, Czader, MB, Gill, JI, Liu, Q, Fan, A, Walsh K, Jima, DD, Luftig, M, Ni, T, Zhu, J, Chadburn, A, Levy, S, Dunston, DB, Davek SS. (2013) The landscape of genetic sequence variation in human diffuse large B cell lymphoma. *PNAS*, 110(4):1398-403.