

**Title**

Leukocytes Infiltrating Canine Solid Tumors May Harbor Oncogenic Mutations

**Purpose**

We wish to investigate whether spontaneously occurring canine tumors (cancer) have DNA mutations within the surrounding leukocytes (white blood cells). Many of the tumors that affect our pets have leukocytes in the immediate tumor vicinity.

Cell mutations have been identified in the leukocytes infiltrating some human breast cancers. These observations allow for the possibility that cancer cells are interacting with abnormal neighboring leukocytes, which have many potential clinical implications. Our study will examine leukocytes associated with the tumor and analyze them for possible DNA mutations.

**Eligibility**

To be eligible for this study, dogs must meet to the following criteria:

- No exposure of any prior treatment (chemotherapy, radiation therapy, or steroid therapy) within the last 6 months for the diagnosis of a spontaneous occurring solid tumor (carcinoma or sarcoma).

**For More Information** about this study and to inquire about eligibility please contact Dr. Katherine Zseltvay (212) 329-8740 (katherine.zseltvay@amcny.org) or Dr. Nicole Leibman (Nicole.Leibman@amcny.org).