



## RESEARCH PROGRESS REPORT SUMMARY

**Grant 02653-A:** Evaluation of the Serum and Cutaneous Levels of Chemokines in Atopic Dogs

**Principal Investigator:** Domenico Santoro, DVM,MS,DrSc,PhD

**Research Institution:** University of Florida

**Grant Amount:** \$14,967

**Start Date:** 2/1/2019      **End Date:** 1/31/2021

**Progress Report:** End-Year 1

**Report Due:** 1/31/2020      **Report Received:** 1/14/2020

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*(The content of this report is not confidential and may be used in communications with your organization.)*

### **Original Project Description:**

Atopic dermatitis (AD) is very common in dogs and children. AD is affected by complex and yet incompletely understood interactions between many factors such as environment, different types of white blood cells, and immunological factors. Chemokines are one of the factors that are used to modulate the immune system, leading to AD. Specific inflammatory chemokines were chosen for this study based on their relevance to AD from previously published studies in human and veterinary medicine. This study will evaluate the levels of these chemokines in blood, exosomes (a small pouch from cells that is used for communication between cells via blood), and skin of dogs with AD. In addition, the investigators will look for a correlation between the levels of these chemokines and severity of AD with a long-term goal to find a potential tool for monitoring and treating AD in dogs and humans.

**Publications:** None at this time

**Presentations:** None at this time

### **Report to Grant Sponsor from Investigator:**

We have completed the recruitment of the dogs and we are starting the laboratory component of the study.