Geropathology Service
Oklahoma Nathan Shock Aging Center

Timothy Snider, DVM, PhD, DACVP, Core Leader
Melanie Breshears, DVM, PhD, DACVP, Staff Pathologist
Jerry Ritchey, DVM, PhD, DACVP, Staff Pathologist

The Program Enhancement Core of the Oklahoma Nathan Shock Aging Center is offering a unique service to investigators studying aging, the pathological analysis of mice focused on pathological lesions that change with age and could play a role in the aging of the animal. We are using the Geropathology Grading Platform recently developed by the Geropathology Research Network (Ladiges et al., *J Gerontol A Biol Sci Med Sci* 72:760-762, 2017), which allows investigators to assess biological aging in mice by measuring the pathological status of a wide range of tissues. The Geropathology Grading Platform allows one to generate a numerical score for each lesion in a tissue, which is then summed to give a score for the total lesions in the tissue that are averaged for the mice in the cohort such that a composite lesion score for that tissue as well as a composite lesion score for the whole animal is obtained. Thus, the Geropathology Grading Platform is a new paradigm for evaluating the effect of an intervention on the pathological status of an animal as well as the healthspan of the mice (Snider et al., *GeroScience* 40: 97-103, 2018).

The Geropathology Service is led by Dr. Snider, who was involved in the Geropathology Research Network and the development of the Geropathology Grading Platform. Drs. Snider, Breshears, and Ritchey are Board Certified Pathologists in the Department of Veterinary Pathobiology at Oklahoma State University. For more information about the Geropathology Service in the Oklahoma Nathan Shock Aging Center contact Dr. Snider at tim.snider@okstate.edu).