

Saumya Gade

Dodson Award *DVM/Ph.D. Student, Comparative Biomedical Sciences First Year ARCS Scholar*



Comparative pathology of pituitary neuroendocrine tumors in canine and human Cushing's disease

Using biomarker imaging and in-vitro patient-derived organoid lines, I investigate the comparative aspects of Cushing's disease between humans and canines through tumor targets and drug response.

Cushing's disease is a multispecies endocrine disorder

Pituitary neuroendocrine tumors (PitNETs) lead to excessive production of cortisol, causing Cushing's disease (CD)

Canines and humans have same clinical presentations

Thin, scaly skin Poor wound bealing fat pads patches of skin pot sk

Same pituitary cell lineages present in both species

J. hPito

W. cPito

M. cPitNETO

M. critical induction

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