Characterizing immune cell populations in the normal canine brain Daniela A. Jimenez^{1,2}, Ryan G. Toedebusch^{3,4}, and Christine M. Toedebusch^{3,4}

COMPREHENSIVE HEALTH CANCER CENTER



UCD Flow Cytometry Core – Bridget McLaughlin, Jonathan Van Dyke Toedebusch Lab: Christine Toedebusch, Ryan Toedebusch, Eshetu Debebe, Jennie Furth-

Jacobus, Kulani Simafranca, Shafee Syed-Quadri

¹Veterinary Scientist Training Program, ²Students Training in Advanced Research Program ³Department of Surgical & Radiological Sciences, ⁴UC Davis Comprehensive Cancer Center School of Veterinary Medicine, University of California Davis, CA



Potiont ID	Signalmont	Proin Pagion	Estimated number of	Mean reads	Median genes	%Reads mapped to	%Reads mapped to
Patient ID	Signaiment	Brain Region	Cells	per cen	per cen	genome	transcriptome
719245	7yr FS Chihuahua	Left Frontal Cortex	1370	153,631	1188	90.1	54.8
719245	7yr FS Chihuahua	Left Temporal Cortex	2110	123123	1251	91.7	58.4
719245	7yr FS Chihuahua	Left Mesencephalon	1797	174850	1153	88.6	50.6
719245	7yr FS Chihuahua	Left Occipital Cortex	2523	203946	1250	91.3	53.6
702942	8yr MC Labrador Mix	Left Frontal Cortex	6155	106945	1579	93.9	57.4
702942	8yr MC Labrador Mix	Left Temporal Cortex	6912	68422	1294	95.4	61.1
702942	8yr MC Labrador Mix	Left Mesencephalon	2598	128755	1248	94.4	60.7
702942	8yr MC Labrador Mix	Left Occipital Cortex	2753	103058	1102	93.5	60.1
Average +/- SEM			3277.25 +/- 731.79	-/- 132841.25 15279.06	-/- 1258.125 50.85	-/- 92.3625 0.82	57.0875+/- 1.33





- see how the immune cell transcriptome changes with pathology