Mouse Models MSA/OPCA Publication

CNP-?-syn transgenic mouse

IDENTIFICATION

Causal gene(s)	Sporadic
Repeat size or mutation	Expression of wild-type human ?-syn and P301L mutant tau (tauP301L)
Animal model	Mouse

MODEL DETAILS

Type of model	Transgenic

TRANSGENIC CONSTRUCT

Promoter: gene	CNP
Promoter: species	Mouse

PHENOTYPE

Progression	Progressive
Hallmark features	?-synuclein and tau accumulation, limb-twitch phenotype, autophagocytosis of myelin, progressive motor impairments

SOURCE & PUBLICATIONS

Originating lab / institution	University of Pennsylvania School of Medicine
Links to publications or public resources	Initiation and synergistic fibrillization of tau and alpha-synuclein - PubMed https://pubmed.ncbi.nlm.nih.gov/12714745/ Mouse model of multiple system atrophy alpha-synuclein expression in oligodendrocytes causes glial and neuronal degeneration - PubMed https://pubmed.ncbi.nlm.nih.gov/15797547/