Mouse Models MSA/OPCA Publication

Olig001-SYN mouse model

IDENTIFICATION

Causal gene(s)	Sporadic
Repeat size or mutation	AAV overexpressing ?-synuclein
Animal model	Mouse

MODEL DETAILS

Mouse strain / background	C57BL/6

TRANSGENIC CONSTRUCT

Transgenic construct: details	Olig001 capsid has a > 95% tropism for oligodendrocytes and the vectors utilized contained the CBh promoter and bovine growth hormone polyA, controlling the expression of either transgene (human ?-syn or GFP as control)
Promoter: gene	CBh
Promoter: species	Mouse

PHENOTYPE

Hallmark features	Neuroinflammation, demyelination, neurodegeneration

SOURCE & PUBLICATIONS

Originating lab / institution	University of Alabama at Birmingham
Links to publications or public resources	IFNu03b3 drives neuroinflammation, demyelination, and neurodegeneration in a mouse model of multiple system atrophy - PubMed https://pubmed.ncbi.nlm.nih.gov/38238869/