Mouse Models MSA/OPCA Publication

CNP-SNCAGFP Tg mice

IDENTIFICATION

Causal gene(s)	Sporadic
Repeat size or mutation	expressing human ?syn-green fluorescent protein (GFP) fusion proteins in oligodendrocytes
Animal model	Mouse

MODEL DETAILS

Mouse strain / background	C57BL6/J
Type of model	Transgenic

TRANSGENIC CONSTRUCT

Transgenic construct: sequence type	cDNA for human ?-synuclein expression
Transgenic construct: details	The coding sequence of human ?synGFP or ?syn was cloned into the pBSK plasmid harboring the murine 2',3'-cyclic nucleotide 3'-phosphodiesterase (CNP) promoter
Promoter: gene	CNP
Promoter: species	Mouse

PHENOTYPE

Hallmark features	?-synuclein inlcusions in oligodendrocytes

SOURCE & PUBLICATIONS

Originating lab / institution	Kyoto University
Links to publications or public resources	A novel mouse model for investigating u03b1-synuclein aggregates in oligodendrocytes: implications for the glial cytoplasmic inclusions in multiple system atrophy - PubMed https://pubmed.ncbi.nlm.nih.gov/38790036/