



Alpha-Synuclein SNCA knockout rat

Model	Alpha-Synuclein SNCA knockout rat
Strain	HsdSage: SD-SCNA ^{tm1Sage}
Location	U.S.
Availability	Live colony

Characteristics/husbandry

- + Background strain: Sprague Dawley

Zygoty genotype

- + Homozygous

Research use

- + Parkinson's disease
- + Dopaminergic cell toxicity

Origin

The Alpha-Synuclein SNCA KO rat model was originally created at SAGE Labs, Inc. in St. Louis, MO and distributed out of the Boyertown, PA facility. The line continues to be maintained through the original SAGE Labs animal inventory acquired by Envigo.

Description

Developed in collaboration with The Michael J. Fox Foundation, this model contains a deletion of the endogenous rat SNCA gene, encoding the alpha-synuclein protein. This model was generated using the CRISPR/Cas9 genome targeting strategy. Mutations and multiplications of the SNCA gene have been linked to early-onset Parkinson's disease (PD), making this model useful for understanding alpha-synuclein biology and PD pathogenesis.

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