

ADDITIONAL FILE 1

Neurodegeneration and contralateral α -synuclein induction after intracerebral α -synuclein injections in the anterior olfactory nucleus of a Parkinson's disease A53T mouse model

Alicia Flores-Cuadrado¹, Daniel Saiz-Sanchez¹, Alicia Mohedano-Moriano², Alino Martinez-Marcos¹,
Isabel Ubeda-Bañon^{1*}

¹Neuroplasticity and Neurodegeneration Laboratory, CRIB, Ciudad Real Medical School, University of Castilla-La Mancha, Ciudad Real, Spain.

²School of Occupational Therapy, Speech Therapy and Nursing, University of Castilla-La Mancha, Talavera de la Reina, Spain.

Alicia.flores@uclm.es

Daniel.saiz@uclm.es

Alicia.mohedano@uclm.es

Alino.martinez@uclm.es

Address for correspondence:

Isabel Ubeda-Bañon

University of Castilla-La Mancha

Ciudad Real Medical School

Camino de Moledores s/n

13071 Ciudad Real (Spain)

Phone: 926295300 6835

E-mail Isabel.ubeda@uclm.es

Material and methods

Table S1. Antibodies

Antigen	Manufacturer, cat n ^o , species	Dilution	Secondary antibodies
α -synuclein (KM51)	Novocastra TM (Leica Biosystems), NCL-L-ASYN, mouse	1:50	1:200 biotinylated horse anti-mouse IgG (H+L) Vector laboratories
Iba-1	Wako, 019-19741, rabbit	1:500	1:200 biotinylated horse anti-rabbit IgG (H+L) Vector laboratories
GFAP	BD Pharmingen TM , 556329, mouse	1:5000	1:200 biotinylated horse anti-mouse IgG (H+L) Vector laboratories
NeuN	Abcam ab104225, rabbit	1:1000	1:200 biotinylated horse anti-rabbit IgG (H+L) Vector laboratories

Table S2. Parameters of unbiased, design-based stereology

Area	Counting frame α -synuclein ($\mu\text{m} \times \mu\text{m}$)	Counting frame Iba-1 ($\mu\text{m} \times \mu\text{m}$)	Counting frame NeuN ($\mu\text{m} \times \mu\text{m}$)	Grid size α -synuclein ($\mu\text{m} \times \mu\text{m}$)	Grid size NeuN ($\mu\text{m} \times \mu\text{m}$)	Grid size Iba-1 ($\mu\text{m} \times \mu\text{m}$)
OB	7 x 7	–	20 x 20	200 x 200	233 x 484	–
GL	–	50 x 50	-	–	-	8 x 8
EPL	–	50 x 50	-	–	-	8 x 8
IPL	–	50 x 50	-	–	-	20 x 20
MiL	–	50 x 50	-	–	-	20 x 20
GrL	–	50 x 50	-	–	-	8 x 8
AON	7 x 7	50 x 50	20 x 20	200 x 200	122 x 221	5 x 5
Pir	7 x 7	50 x 50	20 x 20	200 x 200	233 x 484	5 x 5