

Extracellular matrix remodeling links vascular-stromal dysfunction to neuronal tau pathology in Progressive Supranuclear Palsy

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Supplementary Table 1. List of primers used for quantitative Polymerase Chain Reaction (qPCR) including their sequences.

Primer	Forward sequence	Reverse sequence
CNPY1	GGAAGACCCTGTGACGAAGG	TCCTGGGCGATAAGTGAGGA
CORIN	CCCCGGGAAACTGCAATGTA	GCGATGCTCTGTTGTGGGAT
EN1	GCCCGTGGTCAAACTGACT	GGAACTCCGCCTTGAGTCTC
FOXA2	CTGGTCGTTTGTGTGGCTG	CGTGTTTCATGCCGTTTCATCC
LMX1A	GCCATCGAGCAGAGTGTCTA	TACTGAGGGAGGTGTCTGTCG
LMX1B	CGGACTGCGCCAAGATGTT	TTGACTCGCATCAGGAAGCG
SHH	TGGACATCACACGTCTGAC	GGAAGCAGCCTCCCGATTT
SOX2	GGGAAATGGGAGGGGTGCAAAGAGG	TTGCGTGAGTGTGGATGGGATTGGTG
OCT4	GACAGGGGGAGGGGAGGAGCTAGG	CTTCCTCCAACCAGTTGCCCCAAAC
NANOG	TGCAAGAACTCTCCAACATCCT	ATTGCTATTCTTCGGCCAGTT
TH	TGTACTGGTTCACGGTGGAGT	TCTCAGGCTCCTCAGACAGG
NURR1	TGCCGATTTCAGAAGTGCCT	CGAGGGCACTGATCAGACTC
DDC	GCCGCTATCATGGAGAAGCT	AGAAAGGAATCAGGCCAGCC
GIRK2	CACATCAGCCGAGATCGGAC	GGTAGCGATAGGTCTCCCTCA
CALB1	ATCCCTCATCACAGCCTCAC	TTTGCCCATACTGATCCACA
DAT	GTCTGTTTGGATTGACGCGG	AAGGAGAAGACGACGAAGCC
GAPDH	TCCTCTGACTTCAACAGCGA	GGGTCTTACTCCTTGGAGGC

Forward and reverse primer sequences are shown in 5' → 3' orientation. Gene symbols correspond to official nomenclature. Primers were validated by PCR.

Supplementary Table 2. List of antibodies used for immunofluorescence analyses.

Target	Type	Host	Supplier (Cat #)	Dilution
Vinculin	Monoclonal	Mouse	MA5-11690, Invitrogen	1:100
RhoA-GTP	Monoclonal	Mouse	#26007, New East Biosciences	1:100
p62	Monoclonal	Mouse	#ab56416, Abcam	1:50
TAU	Monoclonal	Rabbit	#46687S, Cell Signaling	1:200
MAP2	Polyclonal	Chicken	#PA1-10005, Invitrogen	1:2000
SYP	Monoclonal	Rabbit	#ab32127, Abcam	1:500
PSD95	Monoclonal	Mouse	MA1046, Invitrogen	1:500
DREBRIN	Polyclonal	Rabbit	#ab-60933, abcam	1:500
FOXA2	Monoclonal	Rabbit	#ab108422, abcam	1:100
FOXA2	Monoclonal	Mouse	#sc-101060, Santa Cruz	1:1000
ZO1	Monoclonal	Mouse	#33-9100, Invitrogen	1:300
LMX1A	Polyclonal	Rabbit	#PA5-115517, Invitrogen	1:200
TH	Monoclonal	Rabbit	#BK58844S, Cell Signaling	1:100
DAT	Monoclonal	Rabbit	#ab184451, abcam	1:100
NFL	Monoclonal	Rabbit	#2837S, Cell signaling	1:100
DDC	Polyclonal	Goat	#PA547512, Invitrogen	1:200
TUBB3	Monoclonal	Mouse	#480011, Invitrogen	1:250
Alexa Fluor- 594 Phalloidin	Probe		# A12381, Invitrogen	1:500
Anti-Rabbit IgG Alexa Fluor 488	Polyclonal	Goat	#A-32731, Invitrogen	1:2000
Anti-Mouse IgG Alexa Fluor 594	Polyclonal	Goat	#A-11005, Invitrogen	1:200
Anti-Mouse IgG Alexa Fluor 488	Polyclonal	Goat	#A-11001, Invitrogen	1:2000
Anti-Rabbit IgG Alexa Fluor 594	Polyclonal	Goat	#A-11012, Invitrogen	1:500
Anti-Chicken IgG Alexa Fluor 594	Polyclonal	Goat	#A32759, Invitrogen	1:200
Anti-Goat IgG Alexa Fluor 594	Polyclonal	Donkey	#A11058, Invitrogen	1:500

List of primary and secondary antibodies used for immunofluorescence, including host species, dilution, fluorophore and supplier.

Supplementary Table 3. List of antibodies used for Western Blot analyses.

Target	Type	Host	Supplier (Cat#)	Dilution
CapZ	Polyclonal	Rabbit	#ab6016, Merck	1:1000
Acetil- α -tub (Lys40)	Monoclonal	Rabbit	#5335S, Cell Signaling	1:1000
H3	Polyclonal	Rabbit	#ab1791, abcam	1:20000
pAKT (S473)	Monoclonal	Rabbit	#4060S, Cell Signaling	1:2000
AKT	Polyclonal	Rabbit	#9272S, Cell Signaling	1:1000
S396	Polyclonal	Rabbit	#44752G, Invitrogen	1:1000
T181	Monoclonal	Rabbit	#12885, Cell Signaling	1:1000
pERK 1/2 (T202/Y204)	Polyclonal	Rabbit	#9101S, Cell Signaling	1:1000
ERK 1/2	Monoclonal	Mouse	#9107S, Cell Signaling	1:1000
COL6A1	Monoclonal	Mouse	#sc-377143, Santa Cruz	1:1000
COL1A1	Monoclonal	Rabbit	#72026, Cell Signaling	1:1000
PP2A	Polyclonal	Rabbit	#2039S, Cell Signaling	1:1000
p-mTOR (S2448)	Monoclonal	Rabbit	#5536S, Cell Signaling	1:1000
mTOR	Monoclonal	Rabbit	#2983S, Cell Signaling	1:1000
p-p70S6K (T421/S424)	Polyclonal	Rabbit	#9204, Cell Signaling	1:2000
P70S6K	Monoclonal	Rabbit	#2708, Cell Signaling	1:2000
p-RPS6 (S235)	Polyclonal	Rabbit	#ab227005, Abcam	1:1000
RPS6	Monoclonal	Mouse	#sc-74459, Santa Cruz	1:2000
p-4E-BP1 (T37/46)	Monoclonal	Rabbit	#2855, Cell Signaling	1:1000
4E-BP1	Polyclonal	Rabbit	#9452, Cell Signaling	1:1000
GAPDH	Polyclonal	Rabbit	#bs-10900R, Bioss	1:1000
P62	Monoclonal	Mouse	#ab56416, Abcam	1:5000
LC3	Polyclonal	Rabbit	#2775S, Cell Signaling	1:1000
SYP	Monoclonal	Rabbit	#ab32127, Abcam	1:20000
LAP-TGF β	Polyclonal	Goat	AF-246-NA, R&D	1:100
p-SMAD2(S465-467)	Monoclonal	Rabbit	MA515122, Invitrogen	1:1000
SMAD2	Monoclonal	Rabbit	700048, Invitrogen	1:1000

List of primary and secondary antibodies used for Western blot experiments, including host species, dilution and supplier

