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Supplementary Materials

The Efficiency of Neurospheres Derived from Human Wharton's Jelly Mesenchymal Stem Cells for Spinal Cord Injury Regeneration in Rats

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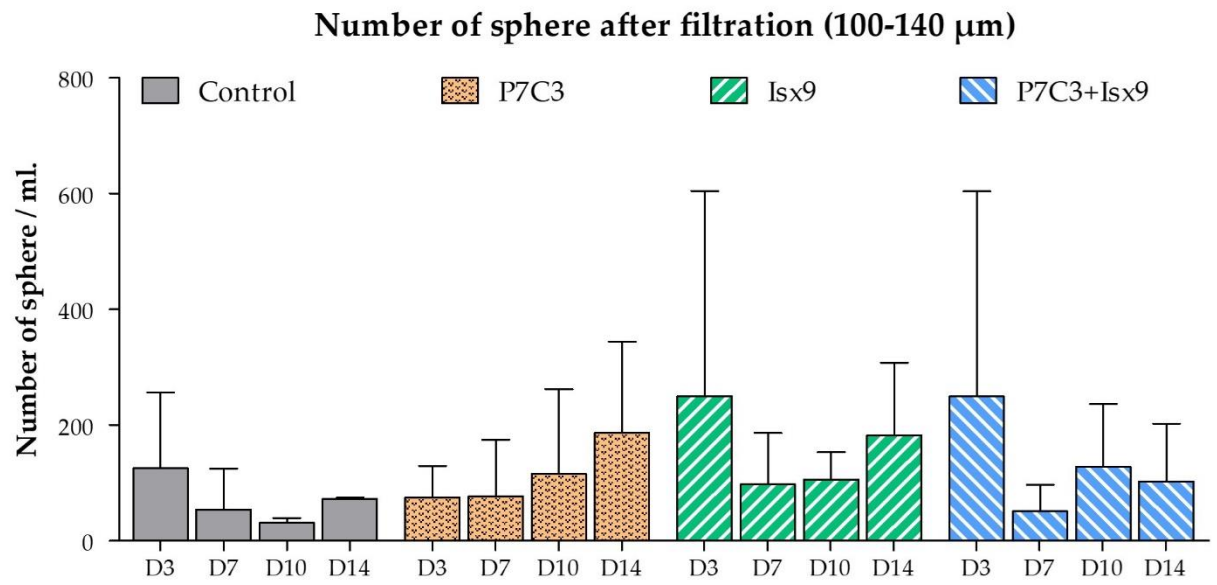


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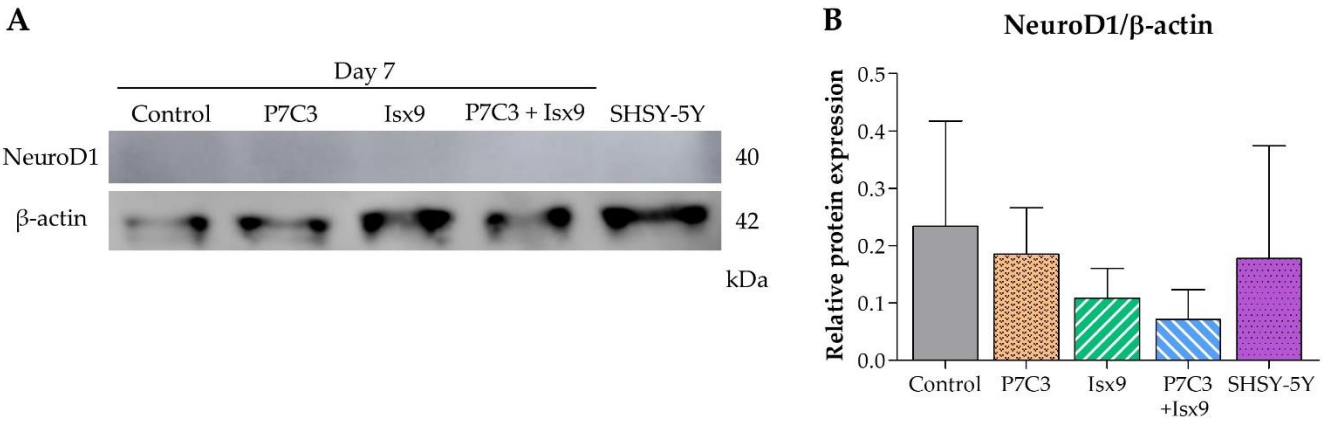


Figure S2. Western blot analysis. (A) Western blot images of NeuroD1 protein, β-actin protein was used as an internal control. (B) Quantification of western blot results. Data were shown as mean ± S.D.

Supplementary Tables

Table S1. Antibodies used for flow cytometry and immunofluorescent.

Antibodies	Companies	Cat #
APC mouse anti-CD73	BioLegend	344006
APC/Cy7 mouse anti-CD90	BioLegend	328132
PE mouse anti-CD105	BioLegend	323206
PE mouse anti-CD34	Beckman Coulter	A07776
FITC mouse anti-CD45	BioLegend	368508
FITC mouse IgG, isotype Ctrl	BioLegend	400109
APC mouse IgG, isotype Ctrl	BioLegend	400120
PE mouse IgG, isotype Ctrl	BioLegend	400113
Mouse anti-nestin	Merck	MAB5326
Mouse anti-β-tubulin 3	Merck	MAB1637
Rat anti-SOX2	eBioscience	14-9811-82
Mouse anti-NeuroD1	Merck	WH0004760M1
Mouse anti-DCX	Merck	MABN707
Rabbit anti-β-catenin	Merck	06-734
Cy3 mouse anti-nuclei	Merck	MAB1281C3
Goat anti-ChAT	Merck	AB144P
Mouse anti-MAP2	Merck	MAB3418
Mouse anti-GFAP	BioLegend	644702
Mouse anti-NF-L	Merck	MAB1615
Mouse anti-Olig2	Merck	MABN50
Rabbit anti-BDNF	Merck	AB1534SP
Mouse anti-β-actin	Affinity Biosciences	T0022
Goat anti-mouse IgG HRP	Abcam	AB6789

Table S2. Primers used for qPCR.

Genes	Primer sequence (5'→3')	Product size (bp)	References
β-catenin	F: CTGAGGACAAGCCACAAGATTACA R: TGGGCACCAATATCAAGTCCAA	121	NM 001330729.2
β-tubulin 3	F: TGGATCCCCAACAACGTGAA R: CITCGTACATCTCCCCTCTT	286	NM 006086.4
NeuroD1	F: TCTTCCACGTTAAGCCTCCG R: CCATCAAAGGAAGGGCTGGT	97	NM 002500.5
SOX2	F: GCGGAAAACCAAGACGCTC R: TTCATGTGCGCGTAACTGTC	153	BC 013923.2
nestin	F: AGTGATGCCCCTTCACCTTG R: GCTCGCTCTCTACTITCCCC	199	NM 006617.1
DCX	F: TATGCGCCGAAGCAAGTCTCCA R: CATCCAAGGACAGAGGCAGGTA	155	NM 000555.3
*β-actin**	F: GAGAAAATCTGGCACCACACC R: GGATAGCACAGCCTGGATAGCAA	177	NM 001101.5

*Reference gene