

Neuroprotection and immunomodulation by xenografted human mesenchymal stem cells following spinal cord ventral root avulsion

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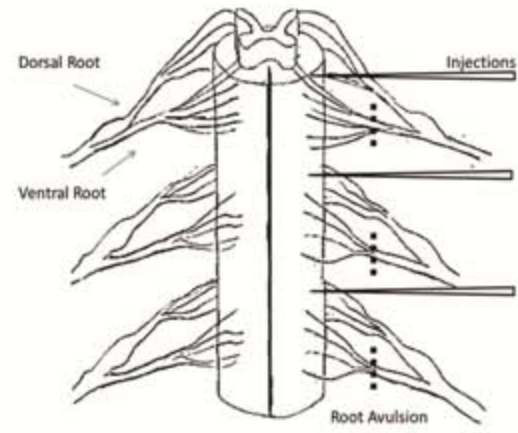
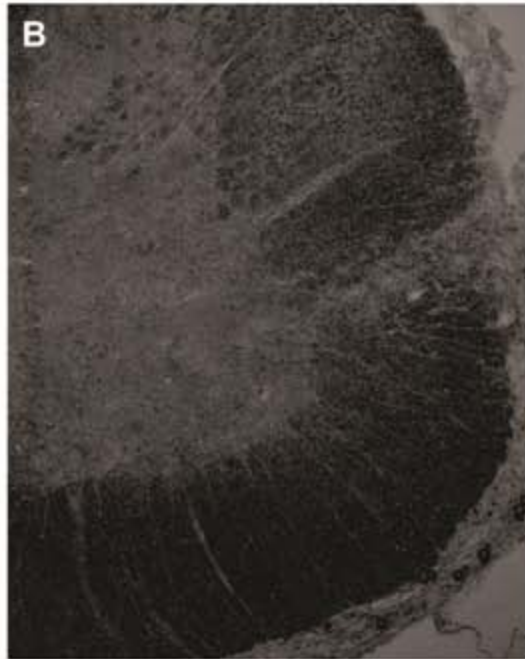
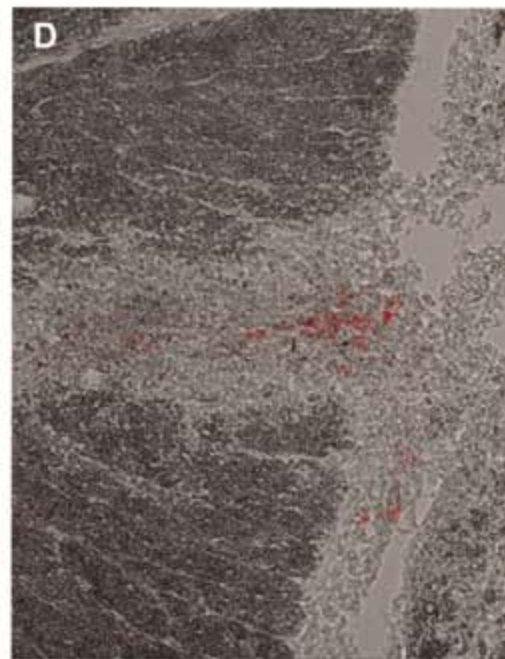
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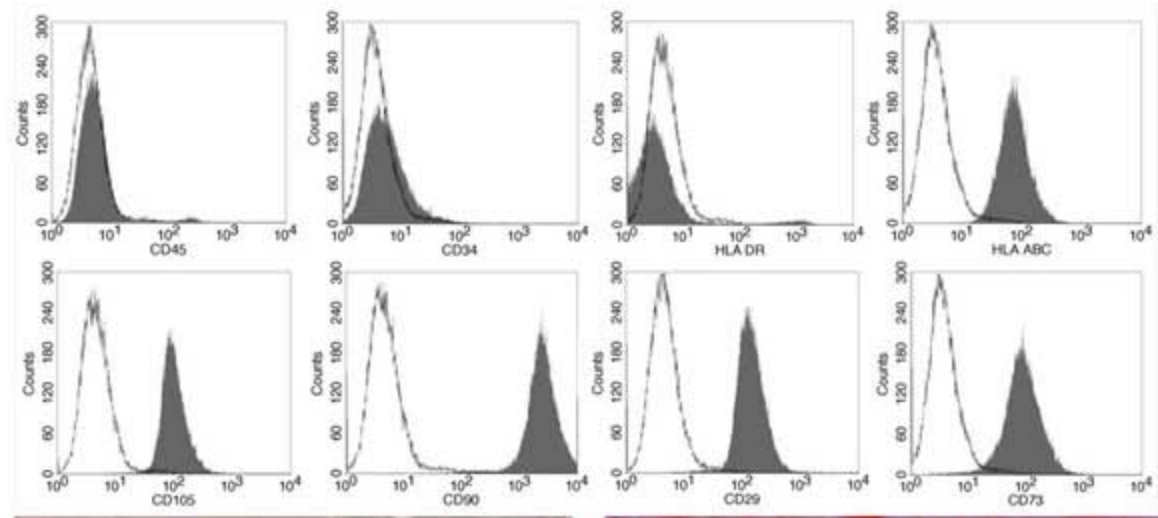
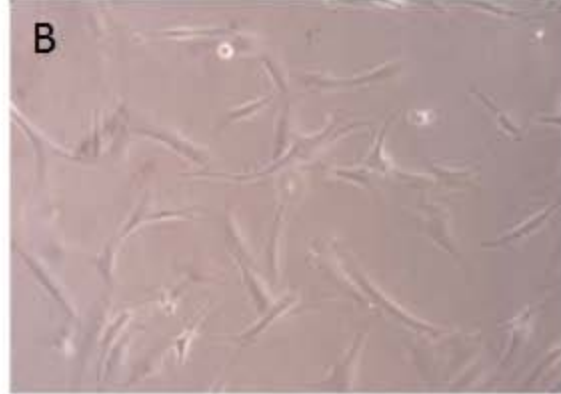
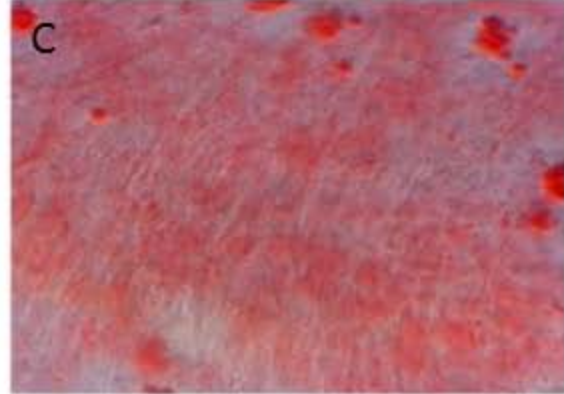
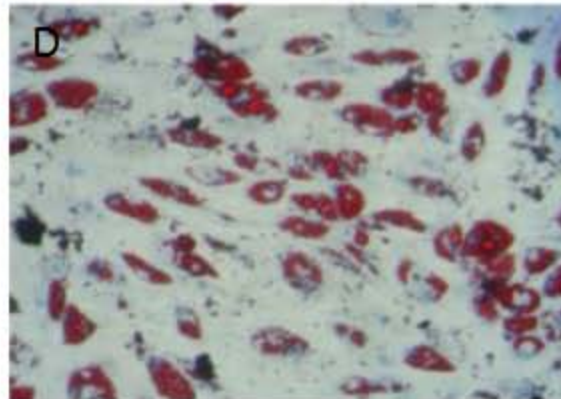
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Supplement Figure 1 – Human AT-MSC grafting in rat spinal cord. (A) Schematic figure of the surgery and injection procedure. (B) Injection site of AT-MSC (arrow) in the spinal cord ventral horn submitted to avulsion (10x) (C) Qdot 655 labelled AT-MSC (red) with qdot655 (D) merge figure showing the presence of AT-MSC in the injection site area (20x).

Supplement Figure 2 – Representative figures and characterization of AT-MSC at 4th passage. (A) Antigen membrane surface characterized by flow cytometry shows a typical expression pattern of MSC. Cells express CD90, CD73, CD105, CD29 and HLA-ABC and lack expression of CD34, CD45 and HLA-DR. (B) AT-MSC is plastic adherent and present fibroblast morphology. AT-MSC were differentiated into mesodermal lineage, such as (C) osteogenic lineage characterized by calcium deposition (Red S Alzarín staining); (D) adipogenic lineage characterized by lipid vesicles (Oil Red O staining); and (E) chondrogenic lineage characterized by glycosaminoglycan matrix production (Alcian blue staining).

A**C****B****D**

A**B****C****D****E**