



Jun 21, 2018

# Sensory and motor evaluation of dogs with acute disc disease and spinal cord injury that undergo surgical decompression and canine adipose tissue-derived stem cell transplantation

DOI

[dx.doi.org/10.17504/protocols.io.q6hdzb6](https://dx.doi.org/10.17504/protocols.io.q6hdzb6)

Fernando Bach<sup>1</sup>

<sup>1</sup>Pontificia Universidade Católica do Paraná



Fernando Bach

## Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.q6hdzb6>

**Protocol Citation:** Fernando Bach 2018. Sensory and motor evaluation of dogs with acute disc disease and spinal cord injury that undergo surgical decompression and canine adipose tissue-derived stem cell transplantation. **protocols.io**

<https://dx.doi.org/10.17504/protocols.io.q6hdzb6>

**License:** This is an open access protocol distributed under the terms of the **[Creative Commons Attribution License](#)**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited



**Protocol status:** Working

**We use this protocol and it's working**

**Created:** June 21, 2018

**Last Modified:** June 21, 2018

**Protocol Integer ID:** 13225

**Keywords:** derived stem cell transplantation sensory, stem cell transplantation sensory, motor evaluation of dog, cell suspension, derived stem cell transplantation, spinal cord injury, stem cell transplantation, acute disc disease, ml collagenase type, adipose tissue, fetal bovine serum, contaminating erythrocyte, tissue

## Abstract

### **Sensory and motor evaluation of dogs with acute disc disease and spinal cord injury that undergo surgical decompression and canine adipose tissue-derived stem cell transplantation**

The adipose tissue was washed with phosphate buffered saline solution (PBS) (Gibco/Thermo Fisher Scientific, Grand Island, NY, USA) and tissue was digested using 1 mg/mL collagenase type I (Gibco/Thermo Fisher Scientific) for 30 minutes at 37°C, followed by 100 µm filter filtration (BD Biosciences Discovery Labware, Bedford, MA, USA). The cell suspension was centrifuged at 800 *g* for 10 minutes and the contaminating erythrocytes were removed using a lysis buffer. Cells were washed, counted and plated at  $1 \times 10^5$  cells/cm<sup>2</sup> in 75 cm<sup>2</sup> culture flasks in Dulbecco's Modified Eagle Medium: Nutrient Mixture F-12 (DMEM-F12) (Gibco/Thermo Fisher Scientific) supplemented with 10% fetal bovine serum (FBS) (Sigma-Aldrich, Saint Louis, MO, USA) and 1% of antibiotics (Sigma-Aldrich).

## Troubleshooting

