

Description of Additional supplementary file

Supplementary Movie 1. Beagle gait after 4-month single straight counterpart implantation.

Supplementary Movie 2. Beagle gait after 4-month individualized SpinMed implantation.

Supplementary Movie 3. Beagle gait after 4-month decellularized nerve graft implantation.

Supplementary Movie 4. Beagle gait after 4-month autograft implantation.