

# Supplemental Materials and Methods

## Utilization of the Rat Tibial Nerve Transection Model to evaluate cellular and molecular mechanisms underpinning denervation-mediated muscle injury.

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## FAPs Cell Culture

### Media

#### 1) *FAPs Basal Growth Media*

- 90% Base Media:
  - 79% DMEM DMEM [Gibco, 11995-065]
  - 20% FBS FBS [Sigma, F1051]
  - 1% Penicillin-Streptomycin Millipore Sigma, P4333]
- 10% Heat-inactivated Horse Serum [Gibco, 26050-088]
- 2.5 ng/mL basic Fibroblast Growth Factor (bFGF) [Gibco, PHG0266]

#### 2) *FAPs Adipogenic Differentiation Media:*

- 78% DMEM
- 20% FBS
- 1% Penicillin/Streptomycin
- 1.25 µM Dexamethasone (stock concentration 5 mg/mL) stock solution Millipore Sigma, D4902]
- 0.5 mM IBMX (stock concentration 10 mg/mL) Millipore Sigma, I5879]
- 5 µM Troglitazone stock solution (stock concentration 1 mg/mL) [Millipore Sigma, T2573]
- 1 µg/mL Humulin R (stock concentration 1 mM) [Lilly, H10210]

## RT qPCR Primers

### Rat Primers

Gene	Forward Primer	Reverse Primer
Perilipin-1	GTGGCTCTCAGCTGCATGT	TTCTGGAAGCACTCACAGGTCC
GDNF	GCGGTTCTGTGAAGCGGCCGA	TAGATACATCCACACCGTTTAGCGG
PCNA	CGTCGCAACTCCGCCACCAT	TCACGCCGCCCGAACTGATG
SMA	CCAGCCAGTCGCCATCAGGA	GCCCGGAGCCATTGTCACAC
Col1a1	AAAACGGGAGGGCGAGTGCT	CTCCCTTGGGTCCCTCGACT
Ki67	CTGCAGAGAAGGTTGGGATAAA	CTGACTTTGCCCAGAGATGAA
HPRT	GCCGACCGGTTCTGTCAT	TCATAACCTGGTTCATCATCACTAATC
HMBS	GGCTCAGATAGCATGCAAGAGA	TGGACCATCTTCTTGCTGAACA
GAPDH	GACCACAGTCCATGCCATCACTGC	GCTGTTGAAGTCGCAGGAGACAAC