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| --- | --- | --- | --- |
| **Nociceptive evaluation on D90** | **Neurophysiological and and histomorphometric variable** | **Pearson’s correlation coefficient** | **P value** |
| Pin prick test | Velocity in the inclined ladder on D90 | 0.550 | <0.001 |
| CMAP amplitude | 0.589 | <0.001 |
| MN cross section area  | 0.422 | 0.001 |
| Number of MN nerve fibers | 0.614 | <0.001 |
| Number of MN acetylcholinesterase positive fibers  | 0.316 | 0.011 |
| Number of MN peripherin positive fibers | 0.348 | 0.012 |
| Number of True Blue stained fibers in the MN  | 0.295 | 0.029 |
| Number of Lucifer Yellow stained fibers in the MN  | 0.293 | 0.030 |
| Number of stained DRG cells | 0.274 | 0.043 |
| Number of Lucifer Yellow positive neurons in the ventral horn of the spinal cord | 0.339 | 0.011 |
| Neurological threshold  | -0.561 | 0.003 |

**Supplemental Table 6.** Summary of the correlations found between nociception assessment 90 days after surgery and functional motor, neurophysiological and histomorphometric variables.

D90, ninety days after surgery; CMAP, compound muscle action potentials; MN, median nerve; DRG, dorsal root ganglion.