**Supplementary Table S1.** Comparison of neuromuscular excitability parameters.Derived excitability parameters (means ± SD) from plantar muscle recordings in response to motor sciatic nerve stimulation of mice treated for 5 weeks with vehicle (n = 6), oxaliplatin (n = 7), oxaliplatin plus niclosamide (n = 9) or niclosamide alone (n = 7). Each group was compared to animals injected with vehicle, and differences were considered significant when *P* < 0.05 (highlighted in grey). Note that, when compared to vehicle-treated mice, all the parameters modified in oxaliplatin-injected mice remain constant when oxaliplatin plus niclosamide or niclosamide alone was administered.

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| --- | --- | --- | --- | --- | --- |
| **Curve1** | **Number and name of derived excitability** | **Vehicle** | **Oxaliplatin** | **Oxaliplatin +**  | **Niclosamide** |
|  | **parameters2** |   |   | **Niclosamide** |   |
| **C1** | **06.**  | Peak response (mV) | 2.79 ± 1.25 | 5.28 ± 1.14\* | 3.69 ± 1.41 | 3.07 ± 1.29 |
| **19.**  | Latency (ms) | 3.27 ± 0.12 | 3.13 ± 0.17 | 3.03 ± 0.18 | 3.22 ± 0.13 |
| **01.**  | Stimulus (mA) for 50% max response | 0.25 ± 1.12 | 0.19 ± 1.03\* | 0.21 ± 1.06 | 0.22 ± 1.13 |
| **05.**  | Stimulus-response slope | 2.78 ± 1.35 | 3.61 ± 1.27 | 2.88 ± 1.26 | 3.10 ± 1.21 |
| **C2** | **03.**  | Chronaxie (ms) | 0.36 ± 0.05 | 0.39 ± 0.06 | 0.37 ± 0.07 | 0.30 ± 0.03 |
| **04.**  | Rheobase (mA) | 0.15 ± 1.10 | 0.19 ± 1.07 | 0.14 ± 1.06 | 0.16 ± 1.07 |
| **C3** | **07.**  | Resting slope | 0.86 ± 0.04 | 0.85 ± 0.03 | 1.14 ± 0.19 | 1.56 ± 0.64 |
| **08.**  | Minimum slope | 0.39 ± 0.03 | 0.30 ± 0.02\* | 0.47 ± 0.10 | 0.41 ± 0.07 |
| **28.**  | Hyperpolarizing slope | 0.93 ± 0.06 | 0.49 ± 0.06\*\*\* | 0.81 ± 0.17 | 1.07 ± 0.26 |
| **C4** | **12.**  | TEd (10-20 ms) / 40% | 45.19 ± 2.20 | 48.71 ± 1.79 | 45.59 ± 2.45 | 42.99 ± 2.55 |
| **25.**  | TEd (peak) / 40% | 45.67 ± 2.13 | 49.71 ± 1.72 | 45.77 ± 2.35 | 43.16 ± 2.40 |
| **20.**  | TEd (40-60 ms) / 40% | 36.30 ± 2.43 | 37.62 ± 1.70 | 34.69 ± 2.24 | 33.43 ± 1.75 |
| **21.**  | TEd (90-100 ms) / 40% | 34.52 ± 2.25 | 34.43 ± 1.52 | 31.03 ± 2.19 | 30.92 ± 1.50 |
| **23.**  | TEd (undershoot) / 40% | -11.40 ± 0.70 | -10.68 ± 1.40 | -12.49 ± 1.09 | -10.63 ± 1.44 |
| **22.**  | TEh (10-20 ms) / -40% | -67.71 ± 2.66 | -78.93 ± 3.35\* | -69.67 ± 4.01 | -65.55 ± 1.68 |
| **30.**  | TEh (20-40 ms) / -40% | -80.30 ± 2.85 | -92.45 ± 3.70\* | -81.80 ± 5.72 | -78.61 ± 1.33 |
| **11.**  | TEh (90-100 ms) / -40% | -91.98 ± 4.26 | -111.50 ± 9.20\* | -89.44 ± 8.81 | -95.12 ± 2.21 |
| **24.**  | TEh (overshoot) / -40% | 7.58 ± 0.93 | 10.01 ± 0.79 | 9.94 ± 0.99 | 8.99 ± 1.08 |
| **C5** | **32.**  | Refractoriness at 2 ms (%) | 31.10 ± 5.83 | 48.49 ± 5.05\* | 22.76 ± 14.10 | 25.87 ± 2.89 |
| **29.**  | Refractoriness at 2.5 ms (%) | 15.31 ± 6.80 | 30.15 ± 6.81 | 15.25 ± 7.26 | 7.02 ± 3.98 |
| **34.**  | Superexcitability at 5 ms (%) | -6.57 ± 1.96 | -1.31 ± 1.75\* | -2.71 ± 3.06 | -8.51 ± 0.85 |
| **33.**  | Superexcitability at 7 ms (%) | -5.10 ± 1.39 | -0.78 ± 1.61\* | -3.65 ± 2.93 | -6.32 ± 1.06 |
| **14.**  | Subexcitability (%) | 6.52 ± 1.03 | 6.34 ± 0.36 | 5.80 ± 0.94 | 7.76 ± 0.68 |

1C1: stimulus-response relationship, C2: strength-duration relationship, C3: current-threshold relationship, C4: threshold electrotonus, and C5: recovery cycle. 2TEd: threshold electrotonus from depolarizing currents (40%), TEh: threshold electrotonus from hyperpolarizing currents (-40%). \* : 0.01 < *P* < 0.05 and \*\*\* : *P* < 0.001 *versus* vehicle.