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| **S5 Table.** Statistical analysis related to Fig 8E-F |
| **Test applied on basic properties: One-way ANOVA**  |
| **Basic properties** | **F (DFn, DFd)** | **P value** | **P value summary** |
| Cm | F (3, 69) = 10.43 | P<0.0001 | \*\*\*\* |
| Rm | F (3, 69) = 16.01 | P<0.0001 | \*\*\*\* |
| Vm | F (3, 73) = 0.8526 | P=0.4697 | ns |
| **Post hoc: Tukey’s multiple comparisons test** |
| **Comparison** | **Cm Adjusted P Value** | **Cm Summary** | **Rm Adjusted P Value** | **Rm Summary** | **Vm Adjusted P Value** | **Vm Summary** |
| targeted RHEBp.P37L vs. targeted RHEBp.P37L/LSL-TeTxLC | 0.1347 | ns | 0.7179 | ns | 0.6715 | ns |
| targeted RHEBp.P37L vs. contralateral RHEBp.P37L/LSL-TeTxLC | 0.0087 | \*\* | 0.0004 | \*\*\* | 0.9996 | ns |
| targeted RHEBp.P37L/LSL-TeTxLC vs. contralateral RHEBp.P37L/LSL-TeTxLC | <0.0001 | \*\*\*\* | <0.0001 | \*\*\*\* | 0.7032 | ns |
| targeted RHEBp.P37L/LSL-TeTxLC vs. contralateral RHEBp.P37L | 0.0006 | \*\*\* | <0.0001 | \*\*\*\* | 0.6425 | ns |
| contralateral RHEBp.P37L/LSL-TeTxLC vs. contralateral RHEBp.P37L | 0.5782 | ns | 0.9675 | ns | 0.9971 | ns |
| targeted RHEBp.P37L vs. targeted RHEBp.P37L/LSL-TeTxLC | 0.1347 | ns | 0.7179 | ns | 0.6734 | ns |
| **Test applied on excitability: Mixed-effects model analysis** |
| **Excitability RHEBp.P37L/****LSL-TeTxLC** | **F (DFn, DFd)** | **P value** | **P value summary** |
| Injected current | F (2.357, 251.5) = 870.7 | <0.0001 | \*\*\*\* |
| Group condition | F (4, 107) = 3714 | <0.0001 | \*\*\*\* |
| Interaction current/condition | F (100, 2667) = 21.99 | <0.0001 | \*\*\*\* |
| **Post hoc: Tukey’s multiple comparisons test** |
| **Comparison** | **Mean difference** | **Adjusted P Value** | **P value summary** |
| control vs. targeted RHEBp.P37L/LSL-TeTxLC  | 6.556 | <0.0001 | \*\*\*\* |
| control vs. contralateral RHEBp.P37L/LSL-TeTxLC | -0.3674 | 0.9490 | ns |
| targeted RHEBp.P37L vs. targeted RHEBp.P37L/LSL-TeTxLC  | -0.7935 | 0.4371 | ns |
| targeted RHEBp.P37L vs. contralateral RHEBp.P37L/LSL-TeTxLC | -7.717 | <0.0001 | \*\*\*\* |
| contralateral RHEBp.P37L vs. targeted RHEBp.P37L/LSL-TeTxLC  | 9.504 | <0.0001 | \*\*\*\* |
| contralateral RHEBp.P37L vs. contralateral RHEBp.P37L/LSL-TeTxLC | 2.581 | 0.0002 | \*\*\* |

ns: non-significant, \*\* *p*<0.01, \*\*\* *p*<0.001, \*\*\*\* *p*<0.0001