|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Groups (n=3)** | **V5+ NeuN+/ NeuN+** | **V5+ NeuN+/ V5+** | **V5+ NeuN+/ DAPI+** | **V5+ Sox9+/ Sox9+** | **V5+ Sox9+/ V5+** | **V5+ Sox9+/ DAPI+** |
| **KO-iMecp2 (109 vg)** | 5,4% ± 6,8% | 26,2% ± 12,7%  | 3,4% ± 1,9% | 38,6% ± 12,0% | 36,6% ± 9,3% | 6,2% ± 2,0%  |
| **KO-iMecp2 (1010 vg)** | 12,1% ± 8,3% | 28,7% ± 13,3%  | 7,5% ± 3,5%  | 59,5% ± 10,3% | 29,6% ± 8,7% | 9,5% ± 3,5% |
| **KO-iMecp2 (1011 vg)** | 50,2% ± 9,4% | 47,6% ± 14,5%  | 31,1% ± 2,8% | 55,7% ± 7,5% | 15,4% ± 3,5% | 8,9% ± 1,8%  |
| **KO-iMecp2 (1012 vg)** | 71,0% ± 12,2% | 64,5% ± 13,1% | 44,6% ± 9,8% | 63,4% ± 9,5% | 14,2% ± 7,3% | 10,1% ± 2,5%  |
|  |  |  |  |  |  |  |
| **HET-iMecp2 (1011 vg)** | 48,1% ± 16,4% | 42,6% ± 19,1%  | 26,4% ± 7,6%  | 46,4% ± 7,6% | 7,4% ± 2,9% | 7,4% ± 1,6% |

**Supplementary Table 1.**

Quantitative assessment of transduced (V5+) astrocytes (Sox9+) and neurons (NeuN+) in the cerebral cortical tissue at each different iMecp2 viral dose.