Appendix

Content: Appendix Table S1

**Figure 1 panel F: Ordinary one-way ANOVA (summary P value 0.0044)**
AAV2 n=4, 7m8 n=3, GL n=5, NN n=3

| Holm-Šidák's multiple comparisons test | Mean Diff. | Below threshold? | Summary | Adjusted P Value |
|----------------------------------------|------------|------------------|---------|-----------------|
| AAV2 vs. GL                            | -12.32     | Yes              | **      | 0.0030          |
| AAV2 vs. NN                            | -11.01     | Yes              | *       | 0.0102          |
| AAV2 vs. 7m8                           | -4.453     | No               | ns      | 0.1862          |

**Figure 2 panel B: Ordinary one-way ANOVA (summary P value 0.0002)**
AAV2 n=4, 7m8 n=4, GL n=3, NN n=4

| Holm-Šidák's multiple comparisons test | Mean Diff. | Below threshold? | Summary | Adjusted P Value |
|----------------------------------------|------------|------------------|---------|-----------------|
| AAV2 vs. 7m8                           | -4.020     | No               | ns      | 0.2725          |
| AAV2 vs. GL                            | -8.072     | Yes              | *       | 0.0427          |
| AAV2 vs. NN                            | -17.08     | Yes              | ***     | 0.0002          |
| 7m8 vs. GL                             | -4.052     | No               | ns      | 0.2725          |
| 7m8 vs. NN                             | -13.06     | Yes              | **      | 0.0018          |
| GL vs. NN                              | -9.009     | Yes              | *       | 0.0313          |

**Figure 6 panel C: Multiple unpaired t-tests using Holm-Šidák method comparing IVT/GL Vs UN**
IVT/GL n=9, UN n=8, WT n=6

| Condition | Below threshold? | P value | Mean of IVT / GL | Mean of UN |
|-----------|------------------|---------|------------------|------------|
| 1 cd.s/m² | Yes              | 0.002926| 9.941            | 1.617      |
| 3 cd.s/m² | Yes              | 0.000009| 12.60            | -0.6551    |
| 10 cd.s/m²| Yes              | <0.000001| 14.85           | -0.8085    |

**Multiple unpaired t-tests using Holm-Šidák method comparing IVT/GL Vs WT**

| Condition | Below threshold? | P value | Mean of IVT / GL | Mean of WT |
|-----------|------------------|---------|------------------|------------|
| 1 cd.s/m² | Yes              | <0.000001| 9.941            | 54.42      |
| 3 cd.s/m² | Yes              | <0.000001| 12.60            | 87.77      |
| 10 cd.s/m²| Yes              | <0.000001| 14.85            | 118.1      |

**Expanded View Figure 3 panel F: Ordinary one-way ANOVA (summary P value 0.0037)**
AAV2 n=3, AAV2.GL n=3, AAV2.NN n=3

| Holm-Šidák's multiple comparisons test | Mean Diff. | Below threshold? | Summary | Adjusted P Value |
|----------------------------------------|------------|------------------|---------|-----------------|
| AAV2 vs. AAV2.GL                       | -14.93     | Yes              | **      | 0.0025          |
| AAV2 vs. AAV2.NN                       | -8.629     | Yes              | *       | 0.0164          |

Appendix Table S1: Statistical Analysis Details