### **Supplementary file 4. NTE/SWS deficit in the surface glia results in permeable BBB**

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| *Genotype* | BBB permeability | | P-value | Number of brain hemispheres analyzed |
| **Normal** | **Permeable** |
| *Control* (*Or x w1118*) | 75% | 25% |  | 96 |
| *sws1* | 12% | 88% | ap = 1.4E-18 | 94 |
| *sws1/sws4* | 2% | 98% | ap = 7.7E-18 | 54 |
| *repo, nSyb>swsRNAi* | 12% | 88% | ap=1.01E-13 | 56 |
| *repo>/Oregon R* | 66% | 34% | ap = 0.23 | 59 |
| *repo>swsRNAi* | 9% | 91% | ap = 1.8E-14  bp = 8.7E-10 | 53 |
| *sws1; repo>sws* | 18% | 82% | bp = 4E-4  cp = 0.21 | 17 |
| *sws1; repo>hNTE* | 36% | 64% | bp = 2.8E-3  cp = 1.4E-3 | 44 |
| *moody>/Oregon R* | 66% | 34% | ap = 0.17 | 91 |
| *moody>swsRNAi* | 9% | 91% | ap = 4.1E-16  bp = 2.4E-12 | 64 |
| *sws1; moody>sws* | 22% | 78% | bp = 1.9E-8  cp = 0.046 | 73 |
| *sws1; moody>hNTE* | 16% | 84% | bp = 1.4E-8  cp = 0.29 | 50 |
| *Gli>/Oregon R* | 65% | 35% | ap = 0.15 | 71 |
| *Gli>swsRNAi* | 8% | 92% | ap = 2.1E-16  bp = 1.9E-11 | 62 |
| *sws1; Gli>sws* | 25% | 75% | bp = 3.9E-6  cp = 0.01 | 61 |
| *sws1; Gli>hNTE* | 26% | 74% | bp = 2.6E-5  cp = 0.01 | 50 |

a – compared to control (*OR x w1118*)

b – compared to *Gal4-driver x OR*

c – compared to *Gal4-driver x UAS-swsRNAi*

The values are reported from experiments done in triplicates. For statistical analyses of the observed phenotypes, two-way tables and χ2-test were used.