**Table S4. The Tav responses in transgenic animals expressing cameleon for calcium imaging**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Genotype** | **Tav response in the head** | **Tav response in the tail** | **n A** | ***p* valueB** | ***p* valueC** |
| wild‑type | 95.1 ± 2.2 | 68.1 ± 6.0 | 628 |  |  |
| N2;*Ex1518[Pnhr-38::yc2.12]* | 92.0 ± 4.4 | 52.0 ± 4.6 | 200 | >0.05 | <0.001 |
| N2;*byEx1027[Pmec-3::yc2.12;unc-122::rfp]* | 92.2 ± 5.0 | 49.0 ± 7.9 | 266 | >0.05 | <0.001 |
| N2;*byEx1058[Pida-1::yc2.12;unc-122::rfp]* | 95.0 ± 3.2 | 50.4 ± 2.9 | 112 | >0.05 | <0.001 |
| *lin-15B(n765);bzIs18[Pmec-4::yc2.12+lin-15(+)]* | 94.0 ± 4.6 | 56.7 ± 8.8 | 226 | >0.05 | <0.01 |

Values reported are mean % ± SD %

nA denotes number of animals tested, 3-17 independent assays were performed.

*p*B values are compared to wild-type animals for the Tav response in the head.

*p*C values are compared to wild-type animals for the Tav response in the tail.