

Supplementary Table 1: P values for two-way ANOVA factors in main figures (1)

Main Figure	Factor p value, level of significance (2)
1C i	interaction P = 0.0025, **; gonads, P = 0.0180, *; chromosome P = 0.0018, **
1C ii	interaction P = 0.1666, ns; gonads P = 0.0379, *; chromosome P = 0.0005, ***
1D i	interaction P = 0.2251, ns; gonads P = 0.0179, *; chromosome P = 0.0007, ***
1 D ii	interaction P = 0.4107, ns; gonads P = 0.0121, *; chromosome P = 0.1128, ns
1E	interaction P = 0.0500, ns; gonads P = 0.0158, *; chromosome P = 0.0007, ***
1F	interaction P = 0.7405, ns; gonads P = 0.3493, ns; chromosome P = 0.0056, **
1G	interaction P = 0.1889, ns; gonads P = 0.0041, **; chromosome P < 0.001, ****
1H i	interaction P = 0.0569, ns; gonads P = 0.0032, **; chromosome P = 0.0004, ****
1H ii	interaction P = 0.1284, ns; gonads P = 0.0512, ns; chromosome P = 0.0395, *
1J	interaction P = 0.7036, ns; gonads P = 0.6129, ns; chromosome P = 0.1137, ns
1K	interaction P = 0.3017, ns; gonads P = 0.7514, ns; chromosome P = 0.5049, ns
1L	interaction P = 0.2696, ns; gonads P = 0.0255, *; chromosome P = 0.9075, ns
1M	interaction P = 0.0013, **; gonads P = 0.7135, ns; chromosomes P = 0.0494, *
1N	interaction P = 0.0131, *; gonads P = 0.0757, ns; chromosome P = 0.4709, ns
1O	interaction P = 0.0103, *; gonads P = 0.0187, *; chromosome P = 0.6690, ns
1P	interaction P = 0.0270, *; gonads, P = 0.0762, ns; chromosome P = 0.7163, ns
1Q	interaction P = 0.0293, *; gonads P = 0.6797, ns; chromosome P = 0.3028, ns
1R	interaction P = 0.0620, ns; gonads P = 0.0506, ns; chromosome P = 0.6843, ns
2B, X34+	interaction P = 0.1392, ns; gonads P = 0.0085, **; chromosome P = 0.1931, ns
2B, 6E10+	interaction P = 0.6460, ns; gonads P < 0.0001, ****; chromosome P = 0.0021, **
2B, X34+/6E10+	interaction P = 0.3951, ns; gonads P < 0.0001, ****; chromosome P = 0.0025, **
2D, left	interaction P = 0.5406, ns; gonads P = 0.0134, *; chromosome P = 0.0001, ***
2D, right	interaction P = 0.7864, ns; gonads P = 0.0132, *; chromosome P = 0.0001, ***
2F	interaction P = 0.1185, ns; gonads P = 0.0465, *; chromosome P = 0.0099, **
2G	interaction P = 0.4672, ns; gonads P = 0.0706, ns; chromosome P = 0.0008, ***
2H	interaction P = 0.9907, ns; gonads P = 0.0024, **; chromosome P < 0.0001, ****
2I	interaction P = 0.3722, ns; gonads P = 0.6940, ns; chromosome P = 0.0061, **
2J	interaction P = 0.9076, ns; gonads P = 0.2540, ns; chromosome P = 0.0057, **
2K	interaction P = 0.7888, ns; gonads P = 0.2026, ns; chromosome P = 0.0052, **
2L	interaction P = 0.7075, ns; gonads P = 0.2763, ns; chromosome P = 0.0350, *
3B, left	interaction P = 0.5670, ns; gonads P = 0.1127, ns; chromosome P = 0.0876, ns
3B, right	interaction P = 0.8821, ns; gonads P = 0.2446, ns; chromosome P = 0.0879, ns
3C i	interaction P = 0.9436, ns; gonads P = 0.0871, ns; chromosome P = 0.0137, *
3C ii	interaction P = 0.8043, ns; gonads P = 0.0025, **; chromosome P = 0.0228, *
3D	interaction P = 0.2885, ns; gonads P = 0.0287, *; chromosome P = 0.1009, ns
3E	interaction P = 0.4369, ns; gonads P = 0.7307, ns; chromosome P = 0.0007, ***
3F	interaction P = 0.4279, ns; gonads P = 0.3967, ns; chromosome P < 0.0001, ****
3G i	interaction P = 0.7948, ns; gonads P = 0.0346, *; chromosome P = 0.0002, ***
3G ii	interaction P = 0.7736, ns; gonads P = 0.0055, **; chromosome P < 0.0001, ****
3I	interaction P = 0.1969, ns; gonads P = 0.6603, ns; chromosome P = 0.3234, ns
3J	interaction P = 0.1245, ns; gonads P = 0.4637, ns; chromosome P = 0.5441, ns
3K	interaction P = 0.8435, ns; gonads P = 0.8179, ns; chromosome P = 0.4448, ns
3L	interaction P = 0.2435, ns; gonads P = 0.0298, *; chromosome P = 0.0269, *
3M	interaction P = 0.3200, ns; gonads P = 0.0009, ***; chromosomes P = 0.0091, **
3N	interaction P = 0.4193, ns; gonads P = 0.0158, ns; chromosome P = 0.0158, *
3O	interaction P = 0.9314, ns; gonads P = 0.0002, ****; chromosome P = 0.4895, ns

3P	interaction P = 0.4800, ns; gonads P = 0.0888, ns; chromosome P = 0.0352, *
3Q	interaction P= 0.3379, ns; gonads P = 0.0052, **; chromosome P = 0.0206, *
4B	interaction P = 0.7919, ns; gonads P = 0.2563, ns; chromosome P = 0.0024, **
4C	interaction P = 0.8185, ns; gonads P = 0.0932, ns; chromosome P = 0.0006, ***
4E	interaction P =0.4053, ns; gonads P = 0.0713, *; chromosome P = 0.0079, **
4F	interaction P = 0.3118, ns; gonads P = 0.0070, **; chromosome P < 0.0001, ****
4G	interaction P = 0.5746, ns; gonads P = 0.0588, ns; chromosome P < 0.0002, ***
4H (3)	gonads P=0.136, ns; chromosome, P<0.0001, ****; transgene P=0.0119, *; gonads X chromosome P=0.3834, ns; gonads x transgene P=0.2830, ns; chromosome x transgene P=0.4163, ns; gonads x chromosome x transgene P = 0.6295, ns
4I	interaction P = 0.0631, ns; gonads P = 0.6740, ns; chromosome P = 0.4340, ns
4J	interaction P = 0.1992, ns; gonads P = 0.3833, ns; chromosome P = 0.3126, ns
4K	interaction P = 0.0129, *; gonads P = 0.3864, ns; chromosome P = 0.3092, ns
4L	interaction P = 0.3774, ns; gonads P = 0.7149, ns; chromosome P = 0.0811, ns
5B	interaction P = 0.0582, ns; gonads P = 0.1346, ns; and chromosome P = 0.0043, **
5C	interaction P = 0.1661, ns; gonads P = 0.5017, ns; chromosome P < 0.0001, ****
5D (Cx3cr1)	interaction P = 0.0330, *; gonads P = 0.3130, ns; chromosome P = 0.1069, ns
5D (P2ry12)	interaction P = 0.0165, *; gonads P = 0.1593, ns; chromosome P = 0.8125, ns
5D (Csf1r)	interaction P = 0.0030, **; gonads P = 0.9298, ns; chromosome P = 0.1615, ns
5E (Cd11c)	interaction P = 0.0004, ***; gonads P = 0.6245, ns; chromosome P = 0.0294, *
5E (Cst7)	interaction P < 0.0001, **** ; gonads P = 0.8467, ns; chromosome P = 0.5071, ns
5E(Clec7a)	interaction P = 0.0048, **; gonads P = 0.3614, ns; chromosome P = 0.8991, ns

1 Significance for Tukey post-hoc correction are noted in Figures

2 Not significant (ns)

3 Three-way ANOVA with 5xFAD as transgene factor