

Hippocampus Sholl Profile Analysis

The Mixed Procedure

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				2.9680	0.1263	184	23.50	<.0001	0.05	2.7188	3.2172
Sex	F			0.05471	0.08887	35E3	0.62	0.5382	0.05	-0.1195	0.2289
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		0.04939	0.1255	35E3	0.39	0.6939	0.05	-0.1966	0.2954
Genotype		DM		-0.01685	0.1261	35E3	-0.13	0.8937	0.05	-0.2641	0.2304
Genotype		RY		-0.1633	0.1255	35E3	-1.30	0.1932	0.05	-0.4094	0.08271
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	0.1027	0.1260	35E3	0.82	0.4149	0.05	-0.1443	0.3497
Dose			1	0.1956	0.1257	35E3	1.56	0.1195	0.05	-0.05065	0.4419
Dose			6	0.1160	0.1257	35E3	0.92	0.3561	0.05	-0.1303	0.3623
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	35E3	0.38	0.5382
Genotype	3	35E3	1.07	0.3616
Dose	3	35E3	0.82	0.4843

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			3.0936	0.06275
Sex	M			3.0389	0.06293
Genotype		CG		3.1483	0.08854
Genotype		DM		3.0821	0.08941
Genotype		RY		2.9356	0.08858
Genotype		WT		3.0989	0.08896
Dose			0.1	3.0654	0.08915
Dose			1	3.1583	0.08864

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The Mixed Procedure

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Dose			6	3.0786	0.08863
Dose			0	2.9627	0.08907

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			0.05471	0.08887	35E3	0.62	0.5382
Genotype		CG			DM		0.06625	0.1258	35E3	0.53	0.5986
Genotype		CG			RY		0.2127	0.1252	35E3	1.70	0.0894
Genotype		CG			WT		0.04939	0.1255	35E3	0.39	0.6939
Genotype		DM			RY		0.1465	0.1259	35E3	1.16	0.2445
Genotype		DM			WT		-0.01685	0.1261	35E3	-0.13	0.8937
Genotype		RY			WT		-0.1633	0.1255	35E3	-1.30	0.1932
Dose			0.1			1	-0.09291	0.1257	35E3	-0.74	0.4599
Dose			0.1			6	-0.01323	0.1257	35E3	-0.11	0.9162
Dose			0.1			0	0.1027	0.1260	35E3	0.82	0.4149
Dose			1			6	0.07968	0.1253	35E3	0.64	0.5250
Dose			1			0	0.1956	0.1257	35E3	1.56	0.1195
Dose			6			0	0.1160	0.1257	35E3	0.92	0.3561

Mixed model for Peak X**The Mixed Procedure**

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				43.7918	1.3964	188	31.36	<.0001	0.05	41.0372	46.5465
Sex	F			0.6046	0.9751	180	0.62	0.5360	0.05	-1.3194	2.5287
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		3.0639	1.3760	180	2.23	0.0272	0.05	0.3487	5.7791
Genotype		DM		1.9766	1.3886	184	1.42	0.1563	0.05	-0.7630	4.7162
Genotype		RY		0.2493	1.3816	182	0.18	0.8570	0.05	-2.4767	2.9753
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	0.7667	1.3906	185	0.55	0.5821	0.05	-1.9767	3.5102
Dose			1	0.8798	1.3790	181	0.64	0.5243	0.05	-1.8413	3.6008
Dose			6	0.06706	1.3785	180	0.05	0.9613	0.05	-2.6530	2.7871
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	180	0.38	0.5360
Genotype	3	181	2.25	0.0846
Dose	3	181	0.22	0.8811

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			46.1473	0.6860
Sex	M			45.5427	0.6932
Genotype		CG		47.5865	0.9644
Genotype		DM		46.4992	0.9824
Genotype		RY		44.7718	0.9724
Genotype		WT		44.5225	0.9815
Dose			0.1	46.1833	0.9839
Dose			1	46.2964	0.9673

Mixed model for Peak X**The Mixed Procedure**

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Dose			6	45.4837	0.9667
Dose			0	45.4166	0.9829

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			0.6046	0.9751	180	0.62	0.5360
Genotype		CG			DM		1.0873	1.3766	179	0.79	0.4307
Genotype		CG			RY		2.8146	1.3696	177	2.06	0.0413
Genotype		CG			WT		3.0639	1.3760	180	2.23	0.0272
Genotype		DM			RY		1.7273	1.3821	181	1.25	0.2130
Genotype		DM			WT		1.9766	1.3886	184	1.42	0.1563
Genotype		RY			WT		0.2493	1.3816	182	0.18	0.8570
Dose			0.1			1	-0.1130	1.3797	181	-0.08	0.9348
Dose			0.1			6	0.6997	1.3793	180	0.51	0.6126
Dose			0.1			0	0.7667	1.3906	185	0.55	0.5821
Dose			1			6	0.8127	1.3676	176	0.59	0.5531
Dose			1			0	0.8798	1.3790	181	0.64	0.5243
Dose			6			0	0.06706	1.3785	180	0.05	0.9613

Mixed model for Peak Y**The Mixed Procedure**

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				11.4162	0.3090	191	36.95	<.0001	0.05	10.8067	12.0256
Sex	F			-0.01392	0.2164	184	-0.06	0.9488	0.05	-0.4409	0.4130
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		-0.3589	0.3055	184	-1.17	0.2416	0.05	-0.9615	0.2438
Genotype		DM		-0.7233	0.3077	188	-2.35	0.0198	0.05	-1.3303	-0.1162
Genotype		RY		-0.8160	0.3064	186	-2.66	0.0084	0.05	-1.4205	-0.2115
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	-0.04769	0.3081	188	-0.15	0.8771	0.05	-0.6554	0.5600
Dose			1	0.4368	0.3060	185	1.43	0.1551	0.05	-0.1669	1.0405
Dose			6	0.3474	0.3059	184	1.14	0.2576	0.05	-0.2562	0.9510
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	184	0.00	0.9488
Genotype	3	184	2.95	0.0339
Dose	3	184	1.27	0.2868

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			11.1118	0.1524
Sex	M			11.1258	0.1537
Genotype		CG		11.2345	0.2145
Genotype		DM		10.8701	0.2178
Genotype		RY		10.7773	0.2159
Genotype		WT		11.5933	0.2175
Dose			0.1	10.8870	0.2180
Dose			1	11.3715	0.2150

Mixed model for Peak Y**The Mixed Procedure**

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Dose			6	11.2821	0.2150
Dose			0	10.9347	0.2177

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			-0.01392	0.2164	184	-0.06	0.9488
Genotype		CG			DM		0.3644	0.3057	183	1.19	0.2348
Genotype		CG			RY		0.4571	0.3044	181	1.50	0.1349
Genotype		CG			WT		-0.3589	0.3055	184	-1.17	0.2416
Genotype		DM			RY		0.09274	0.3066	185	0.30	0.7627
Genotype		DM			WT		-0.7233	0.3077	188	-2.35	0.0198
Genotype		RY			WT		-0.8160	0.3064	186	-2.66	0.0084
Dose			0.1			1	-0.4845	0.3062	185	-1.58	0.1152
Dose			0.1			6	-0.3951	0.3061	184	-1.29	0.1984
Dose			0.1			0	-0.04769	0.3081	188	-0.15	0.8771
Dose			1			6	0.08943	0.3040	181	0.29	0.7690
Dose			1			0	0.4368	0.3060	185	1.43	0.1551
Dose			6			0	0.3474	0.3059	184	1.14	0.2576

Mixed model for AUC total**The Mixed Procedure**

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				746.71	31.4671	188	23.73	<.0001	0.05	684.64	808.79
Sex	F			5.9542	22.1011	183	0.27	0.7879	0.05	-37.6508	49.5592
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		14.0228	31.2061	183	0.45	0.6537	0.05	-47.5477	75.5932
Genotype		DM		-11.0598	31.3835	186	-0.35	0.7249	0.05	-72.9737	50.8540
Genotype		RY		-37.8532	31.2792	184	-1.21	0.2278	0.05	-99.5647	23.8584
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	23.1477	31.4071	186	0.74	0.4620	0.05	-38.8115	85.1068
Dose			1	48.8843	31.2477	184	1.56	0.1194	0.05	-12.7665	110.54
Dose			6	34.4834	31.2459	183	1.10	0.2712	0.05	-27.1644	96.1313
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	183	0.07	0.7879
Genotype	3	183	0.99	0.3969
Dose	3	183	0.87	0.4568

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			770.57	15.5760
Sex	M			764.62	15.6804
Genotype		CG		790.34	21.9587
Genotype		DM		765.26	22.2112
Genotype		RY		738.46	22.0630
Genotype		WT		776.32	22.1730
Dose			0.1	764.11	22.2222
Dose			1	789.85	21.9950

*Mixed model for AUC total**The Mixed Procedure*

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Dose			6	775.45	21.9933
Dose			0	740.97	22.1955

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			5.9542	22.1011	183	0.27	0.7879
Genotype		CG			DM		25.0826	31.2333	183	0.80	0.4230
Genotype		CG			RY		51.8760	31.1285	181	1.67	0.0973
Genotype		CG			WT		14.0228	31.2061	183	0.45	0.6537
Genotype		DM			RY		26.7933	31.3059	184	0.86	0.3932
Genotype		DM			WT		-11.0598	31.3835	186	-0.35	0.7249
Genotype		RY			WT		-37.8532	31.2792	184	-1.21	0.2278
Dose			0.1			1	-25.7367	31.2665	183	-0.82	0.4115
Dose			0.1			6	-11.3357	31.2650	183	-0.36	0.7173
Dose			0.1			0	23.1477	31.4071	186	0.74	0.4620
Dose			1			6	14.4009	31.1048	181	0.46	0.6439
Dose			1			0	48.8843	31.2477	184	1.56	0.1194
Dose			6			0	34.4834	31.2459	183	1.10	0.2712

Mixed model for AUC proximal**The Mixed Procedure**

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				484.22	14.2223	189	34.05	<.0001	0.05	456.17	512.28
Sex	F			-1.6078	9.9701	184	-0.16	0.8721	0.05	-21.2786	18.0629
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		-13.6199	14.0742	183	-0.97	0.3345	0.05	-41.3887	14.1488
Genotype		DM		-24.2883	14.1711	186	-1.71	0.0882	0.05	-52.2446	3.6680
Genotype		RY		-28.3528	14.1153	185	-2.01	0.0460	0.05	-56.2009	-0.5047
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	1.7967	14.1848	187	0.13	0.8993	0.05	-26.1859	29.7794
Dose			1	21.9820	14.0972	184	1.56	0.1206	0.05	-5.8312	49.7952
Dose			6	14.3171	14.0953	183	1.02	0.3111	0.05	-13.4925	42.1267
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	184	0.03	0.8721
Genotype	3	184	1.61	0.1892
Dose	3	184	1.10	0.3493

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			475.58	7.0219
Sex	M			477.18	7.0785
Genotype		CG		479.32	9.8906
Genotype		DM		468.66	10.0286
Genotype		RY		464.59	9.9493
Genotype		WT		492.94	10.0132
Dose			0.1	468.65	10.0364
Dose			1	488.84	9.9114

*Mixed model for AUC proximal**The Mixed Procedure*

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Dose			6	481.17	9.9091
Dose			0	466.86	10.0248

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			-1.6078	9.9701	184	-0.16	0.8721
Genotype		CG			DM		10.6684	14.0853	183	0.76	0.4498
Genotype		CG			RY		14.7329	14.0292	181	1.05	0.2950
Genotype		CG			WT		-13.6199	14.0742	183	-0.97	0.3345
Genotype		DM			RY		4.0645	14.1260	184	0.29	0.7739
Genotype		DM			WT		-24.2883	14.1711	186	-1.71	0.0882
Genotype		RY			WT		-28.3528	14.1153	185	-2.01	0.0460
Dose			0.1			1	-20.1852	14.1054	184	-1.43	0.1541
Dose			0.1			6	-12.5204	14.1036	183	-0.89	0.3758
Dose			0.1			0	1.7967	14.1848	187	0.13	0.8993
Dose			1			6	7.6648	14.0155	180	0.55	0.5851
Dose			1			0	21.9820	14.0972	184	1.56	0.1206
Dose			6			0	14.3171	14.0953	183	1.02	0.3111

*Mixed model for AUC distal**The Mixed Procedure*

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				2.1624	0.05113	185	42.29	<.0001	0.05	2.0616	2.2633
Sex	F			-0.05370	0.06132	181	-0.88	0.3823	0.05	-0.1747	0.06729
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		-0.02750	0.06107	179	-0.45	0.6531	0.05	-0.1480	0.09302
Genotype		DM		0.06986	0.06171	184	1.13	0.2591	0.05	-0.05189	0.1916
Genotype		RY		-0.06110	0.06131	181	-1.00	0.3203	0.05	-0.1821	0.05987
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	0.03937	0.04343	182	0.91	0.3659	0.05	-0.04633	0.1251
Dose			1	0.03409	0.04320	179	0.79	0.4311	0.05	-0.05116	0.1193
Dose			6	0.01600	0.04320	179	0.37	0.7116	0.05	-0.06925	0.1012
Dose			0	0	.	.	.	.	.	.	.
Sex*Genotype	F	CG		0.1792	0.08628	178	2.08	0.0392	0.05	0.008936	0.3495
Sex*Genotype	F	DM		-0.04497	0.08680	181	-0.52	0.6050	0.05	-0.2162	0.1263
Sex*Genotype	F	RY		0.1370	0.08649	180	1.58	0.1149	0.05	-0.03364	0.3077
Sex*Genotype	F	WT		0	.	.	.	.	.	.	.
Sex*Genotype	M	CG		0	.	.	.	.	.	.	.
Sex*Genotype	M	DM		0	.	.	.	.	.	.	.
Sex*Genotype	M	RY		0	.	.	.	.	.	.	.
Sex*Genotype	M	WT		0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	179	0.21	0.6448
Genotype	3	179	0.98	0.4030
Dose	3	179	0.34	0.7941
Sex*Genotype	3	179	3.08	0.0287

*Mixed model for AUC distal**The Mixed Procedure*

Least Squares Means				
Effect	Sex	Genotype	Estimate	Standard Error
Sex	F		2.1942	0.02153
Sex	M		2.1801	0.02168
Genotype		CG	2.2200	0.03035
Genotype		DM	2.2053	0.03072
Genotype		RY	2.1654	0.03050
Genotype		WT	2.1579	0.03066
Sex*Genotype	F	CG	2.2828	0.04291
Sex*Genotype	F	DM	2.1560	0.04305
Sex*Genotype	F	RY	2.2070	0.04301
Sex*Genotype	F	WT	2.1311	0.04327
Sex*Genotype	M	CG	2.1573	0.04292
Sex*Genotype	M	DM	2.2547	0.04383
Sex*Genotype	M	RY	2.1237	0.04326
Sex*Genotype	M	WT	2.1848	0.04345

Differences of Least Squares Means									
Effect	Sex	Genotype	Sex	Genotype	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F		M		0.01411	0.03056	179	0.46	0.6448
Genotype		CG		DM	0.01472	0.04318	178	0.34	0.7336
Genotype		CG		RY	0.05469	0.04302	176	1.27	0.2053
Genotype		CG		WT	0.06210	0.04314	178	1.44	0.1517
Genotype		DM		RY	0.03997	0.04329	180	0.92	0.3570
Genotype		DM		WT	0.04738	0.04340	181	1.09	0.2764
Genotype		RY		WT	0.007410	0.04325	180	0.17	0.8641
Sex*Genotype	F	CG	F	DM	0.1268	0.06079	176	2.09	0.0384
Sex*Genotype	F	CG	F	RY	0.07577	0.06075	176	1.25	0.2140
Sex*Genotype	F	CG	F	WT	0.1517	0.06094	178	2.49	0.0137
Sex*Genotype	F	CG	M	CG	0.1255	0.06069	175	2.07	0.0401
Sex*Genotype	F	CG	M	DM	0.02813	0.06134	180	0.46	0.6470
Sex*Genotype	F	CG	M	RY	0.1591	0.06093	177	2.61	0.0098
Sex*Genotype	F	CG	M	WT	0.09800	0.06107	179	1.60	0.1103

*Mixed model for AUC distal**The Mixed Procedure*

Differences of Least Squares Means									
Effect	Sex	Genotype	Sex	Genotype	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex*Genotype	F	DM	F	RY	-0.05103	0.06085	177	-0.84	0.4028
Sex*Genotype	F	DM	F	WT	0.02490	0.06104	179	0.41	0.6839
Sex*Genotype	F	DM	M	CG	-0.00131	0.06079	176	-0.02	0.9828
Sex*Genotype	F	DM	M	DM	-0.09867	0.06144	181	-1.61	0.1100
Sex*Genotype	F	DM	M	RY	0.03230	0.06103	178	0.53	0.5973
Sex*Genotype	F	DM	M	WT	-0.02881	0.06117	180	-0.47	0.6382
Sex*Genotype	F	RY	F	WT	0.07593	0.06101	178	1.24	0.2149
Sex*Genotype	F	RY	M	CG	0.04972	0.06076	176	0.82	0.4143
Sex*Genotype	F	RY	M	DM	-0.04764	0.06140	181	-0.78	0.4388
Sex*Genotype	F	RY	M	RY	0.08333	0.06100	178	1.37	0.1736
Sex*Genotype	F	RY	M	WT	0.02222	0.06113	179	0.36	0.7166
Sex*Genotype	F	WT	M	CG	-0.02621	0.06095	178	-0.43	0.6677
Sex*Genotype	F	WT	M	DM	-0.1236	0.06159	183	-2.01	0.0463
Sex*Genotype	F	WT	M	RY	0.007403	0.06119	180	0.12	0.9038
Sex*Genotype	F	WT	M	WT	-0.05370	0.06132	181	-0.88	0.3823
Sex*Genotype	M	CG	M	DM	-0.09736	0.06134	180	-1.59	0.1142
Sex*Genotype	M	CG	M	RY	0.03361	0.06094	177	0.55	0.5820
Sex*Genotype	M	CG	M	WT	-0.02750	0.06107	179	-0.45	0.6531
Sex*Genotype	M	DM	M	RY	0.1310	0.06158	182	2.13	0.0348
Sex*Genotype	M	DM	M	WT	0.06986	0.06171	184	1.13	0.2591
Sex*Genotype	M	RY	M	WT	-0.06110	0.06131	181	-1.00	0.3203

Mixed Effects Model for Total Dendrites**The Mixed Procedure**

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				4.2803	0.1167	191	36.68	<.0001	0.05	4.0501	4.5105
Sex	F			-0.03366	0.08143	183	-0.41	0.6798	0.05	-0.1943	0.1270
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		-0.2756	0.1149	182	-2.40	0.0175	0.05	-0.5023	-0.04888
Genotype		DM		-0.3929	0.1160	187	-3.39	0.0009	0.05	-0.6217	-0.1640
Genotype		RY		-0.3514	0.1154	185	-3.04	0.0027	0.05	-0.5790	-0.1237
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	-0.09712	0.1162	188	-0.84	0.4043	0.05	-0.3263	0.1321
Dose			1	-0.01217	0.1152	183	-0.11	0.9160	0.05	-0.2394	0.2151
Dose			6	0.09735	0.1151	183	0.85	0.3988	0.05	-0.1298	0.3245
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	183	0.17	0.6798
Genotype	3	183	4.66	0.0037
Dose	3	183	0.96	0.4142

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			3.9887	0.05727
Sex	M			4.0223	0.05790
Genotype		CG		3.9849	0.08049
Genotype		DM		3.8676	0.08206
Genotype		RY		3.9091	0.08120
Genotype		WT		4.2605	0.08201
Dose			0.1	3.9114	0.08221
Dose			1	3.9963	0.08075

*Mixed Effects Model for Total Dendrites**The Mixed Procedure*

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Dose			6	4.1058	0.08069
Dose			0	4.0085	0.08212

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			-0.03366	0.08143	183	-0.41	0.6798
Genotype		CG			DM		0.1173	0.1150	182	1.02	0.3089
Genotype		CG			RY		0.07576	0.1143	179	0.66	0.5084
Genotype		CG			WT		-0.2756	0.1149	182	-2.40	0.0175
Genotype		DM			RY		-0.04153	0.1154	184	-0.36	0.7194
Genotype		DM			WT		-0.3929	0.1160	187	-3.39	0.0009
Genotype		RY			WT		-0.3514	0.1154	185	-3.04	0.0027
Dose			0.1			1	-0.08496	0.1152	183	-0.74	0.4619
Dose			0.1			6	-0.1945	0.1152	183	-1.69	0.0930
Dose			0.1			0	-0.09712	0.1162	188	-0.84	0.4043
Dose			1			6	-0.1095	0.1142	178	-0.96	0.3387
Dose			1			0	-0.01217	0.1152	183	-0.11	0.9160
Dose			6			0	0.09735	0.1151	183	0.85	0.3988

Mixed Effects Model for terminal tips**The Mixed Procedure**

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				15.4589	0.4666	190	33.13	<.0001	0.05	14.5386	16.3792
Sex	F			-0.08898	0.3271	184	-0.27	0.7859	0.05	-0.7343	0.5564
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		-0.08570	0.4617	184	-0.19	0.8530	0.05	-0.9967	0.8253
Genotype		DM		-0.8187	0.4649	187	-1.76	0.0799	0.05	-1.7358	0.09845
Genotype		RY		-0.9146	0.4631	185	-1.98	0.0497	0.05	-1.8282	-0.00103
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	0.1680	0.4653	188	0.36	0.7185	0.05	-0.7500	1.0860
Dose			1	0.5770	0.4625	185	1.25	0.2138	0.05	-0.3355	1.4895
Dose			6	0.3821	0.4624	184	0.83	0.4097	0.05	-0.5303	1.2944
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	184	0.07	0.7859
Genotype	3	184	2.14	0.0968
Dose	3	184	0.59	0.6217

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			15.1969	0.2304
Sex	M			15.2859	0.2322
Genotype		CG		15.6105	0.3245
Genotype		DM		14.8775	0.3290
Genotype		RY		14.7816	0.3264
Genotype		WT		15.6962	0.3285
Dose			0.1	15.1277	0.3293
Dose			1	15.5367	0.3252

Mixed Effects Model for terminal tips***The Mixed Procedure***

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Dose			6	15.3417	0.3251
Dose			0	14.9597	0.3289

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			-0.08898	0.3271	184	-0.27	0.7859
Genotype		CG			DM		0.7330	0.4621	183	1.59	0.1144
Genotype		CG			RY		0.8289	0.4603	182	1.80	0.0734
Genotype		CG			WT		-0.08570	0.4617	184	-0.19	0.8530
Genotype		DM			RY		0.09595	0.4634	185	0.21	0.8362
Genotype		DM			WT		-0.8187	0.4649	187	-1.76	0.0799
Genotype		RY			WT		-0.9146	0.4631	185	-1.98	0.0497
Dose			0.1			1	-0.4090	0.4628	184	-0.88	0.3780
Dose			0.1			6	-0.2141	0.4627	184	-0.46	0.6442
Dose			0.1			0	0.1680	0.4653	188	0.36	0.7185
Dose			1			6	0.1949	0.4598	181	0.42	0.6722
Dose			1			0	0.5770	0.4625	185	1.25	0.2138
Dose			6			0	0.3821	0.4624	184	0.83	0.4097

Mixed Effects Model for dendrite length sum**The Mixed Procedure**

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				857.44	35.6230	188	24.07	<.0001	0.05	787.16	927.71
Sex	F			11.2111	25.0221	184	0.45	0.6546	0.05	-38.1567	60.5789
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		9.0551	35.3309	183	0.26	0.7980	0.05	-60.6532	78.7634
Genotype		DM		-17.7112	35.5299	186	-0.50	0.6187	0.05	-87.8046	52.3821
Genotype		RY		-52.4407	35.4128	184	-1.48	0.1404	0.05	-122.31	17.4255
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	33.6612	35.5562	187	0.95	0.3450	0.05	-36.4828	103.81
Dose			1	53.3977	35.3775	184	1.51	0.1329	0.05	-16.4007	123.20
Dose			6	36.5092	35.3757	184	1.03	0.3034	0.05	-33.2860	106.30
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	184	0.20	0.6546
Genotype	3	184	1.18	0.3173
Dose	3	184	0.80	0.4970

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			884.26	17.6352
Sex	M			873.05	17.7523
Genotype		CG		902.99	24.8627
Genotype		DM		876.22	25.1457
Genotype		RY		841.49	24.9794
Genotype		WT		893.93	25.1024
Dose			0.1	881.43	25.1579
Dose			1	901.16	24.9033

Mixed Effects Model for dendrite length sum***The Mixed Procedure***

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Dose			6	884.28	24.9015
Dose			0	847.77	25.1276

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			11.2111	25.0221	184	0.45	0.6546
Genotype		CG			DM		26.7664	35.3618	183	0.76	0.4501
Genotype		CG			RY		61.4958	35.2442	181	1.74	0.0827
Genotype		CG			WT		9.0551	35.3309	183	0.26	0.7980
Genotype		DM			RY		34.7295	35.4431	184	0.98	0.3284
Genotype		DM			WT		-17.7112	35.5299	186	-0.50	0.6187
Genotype		RY			WT		-52.4407	35.4128	184	-1.48	0.1404
Dose			0.1			1	-19.7365	35.3989	184	-0.56	0.5778
Dose			0.1			6	-2.8481	35.3972	184	-0.08	0.9360
Dose			0.1			0	33.6612	35.5562	187	0.95	0.3450
Dose			1			6	16.8885	35.2177	181	0.48	0.6321
Dose			1			0	53.3977	35.3775	184	1.51	0.1329
Dose			6			0	36.5092	35.3757	184	1.03	0.3034

Mixed model for cell body area**The Mixed Procedure**

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				291.17	11.2507	187	25.88	<.0001	0.05	268.97	313.36
Sex	F			9.2350	5.3625	175	1.72	0.0868	0.05	-1.3482	19.8182
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		-26.4546	15.2232	178	-1.74	0.0840	0.05	-56.4956	3.5864
Genotype		DM		-61.3191	15.3539	183	-3.99	<.0001	0.05	-91.6121	-31.0260
Genotype		RY		-53.0510	15.3287	183	-3.46	0.0007	0.05	-83.2951	-22.8068
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	-22.6638	15.3565	184	-1.48	0.1417	0.05	-52.9610	7.6334
Dose			1	-19.0021	15.2795	180	-1.24	0.2152	0.05	-49.1515	11.1474
Dose			6	-55.1461	15.2381	179	-3.62	0.0004	0.05	-85.2158	-25.0763
Dose			0	0	.	.	.	.	.	.	.
Genotype*Dose		CG	0.1	9.0472	21.5218	178	0.42	0.6747	0.05	-33.4232	51.5177
Genotype*Dose		CG	1	7.3856	21.4762	177	0.34	0.7313	0.05	-34.9972	49.7684
Genotype*Dose		CG	6	50.5248	21.3595	173	2.37	0.0191	0.05	8.3663	92.6834
Genotype*Dose		CG	0	0	.	.	.	.	.	.	.
Genotype*Dose		DM	0.1	25.7651	21.7132	182	1.19	0.2369	0.05	-17.0767	68.6068
Genotype*Dose		DM	1	7.2045	21.5358	178	0.33	0.7384	0.05	-35.2934	49.7025
Genotype*Dose		DM	6	82.0220	21.5530	179	3.81	0.0002	0.05	39.4911	124.55
Genotype*Dose		DM	0	0	.	.	.	.	.	.	.
Genotype*Dose		RY	0.1	20.8641	21.6054	181	0.97	0.3355	0.05	-21.7673	63.4954
Genotype*Dose		RY	1	9.4661	21.4855	177	0.44	0.6601	0.05	-32.9350	51.8672
Genotype*Dose		RY	6	47.2453	21.5244	178	2.19	0.0295	0.05	4.7692	89.7215
Genotype*Dose		RY	0	0	.	.	.	.	.	.	.
Genotype*Dose		WT	0.1	0	.	.	.	.	.	.	.
Genotype*Dose		WT	1	0	.	.	.	.	.	.	.
Genotype*Dose		WT	6	0	.	.	.	.	.	.	.
Genotype*Dose		WT	0	0	.	.	.	.	.	.	.

*Mixed model for cell body area**The Mixed Procedure*

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	175	2.97	0.0868
Genotype	3	175	9.78	<.0001
Dose	3	175	1.09	0.3550
Genotype*Dose	9	175	2.10	0.0322

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			257.21	3.7783
Sex	M			247.98	3.8054
Genotype		CG		261.87	5.3252
Genotype		DM		239.01	5.3905
Genotype		RY		237.93	5.3523
Genotype		WT		271.58	5.3817
Dose			0.1	251.83	5.3935
Dose			1	247.59	5.3346
Dose			6	250.38	5.3342
Dose			0	260.58	5.3874
Genotype*Dose		CG	0.1	255.71	10.7080
Genotype*Dose		CG	1	257.71	10.7260
Genotype*Dose		CG	6	264.71	10.5509
Genotype*Dose		CG	0	269.33	10.6162
Genotype*Dose		DM	0.1	237.57	10.9063
Genotype*Dose		DM	1	222.67	10.6597
Genotype*Dose		DM	6	261.34	10.7527
Genotype*Dose		DM	0	234.47	10.8036
Genotype*Dose		RY	0.1	240.93	10.7259
Genotype*Dose		RY	1	233.20	10.5937
Genotype*Dose		RY	6	234.83	10.7313
Genotype*Dose		RY	0	242.73	10.7670
Genotype*Dose		WT	0.1	273.12	10.8066
Genotype*Dose		WT	1	276.78	10.6967

*Mixed model for cell body area**The Mixed Procedure*

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Genotype*Dose		WT	6	240.64	10.6378
Genotype*Dose		WT	0	295.79	10.9105

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			9.2350	5.3625	175	1.72	0.0868
Genotype		CG			DM		22.8560	7.5773	175	3.02	0.0029
Genotype		CG			RY		23.9419	7.5502	173	3.17	0.0018
Genotype		CG			WT		-9.7152	7.5710	175	-1.28	0.2011
Genotype		DM			RY		1.0859	7.5963	176	0.14	0.8865
Genotype		DM			WT		-32.5712	7.6170	178	-4.28	<.0001
Genotype		RY			WT		-33.6571	7.5901	176	-4.43	<.0001
Dose			0.1			1	4.2433	7.5859	176	0.56	0.5766
Dose			0.1			6	1.4533	7.5857	175	0.19	0.8483
Dose			0.1			0	-8.7447	7.6231	178	-1.15	0.2529
Dose			1			6	-2.7900	7.5440	173	-0.37	0.7120
Dose			1			0	-12.9880	7.5816	176	-1.71	0.0885
Dose			6			0	-10.1980	7.5814	175	-1.35	0.1803
Genotype*Dose		CG	0.1		CG	1	-2.0001	15.1561	176	-0.13	0.8952
Genotype*Dose		CG	0.1		CG	6	-8.9953	15.0327	170	-0.60	0.5504
Genotype*Dose		CG	0.1		CG	0	-13.6166	15.0786	172	-0.90	0.3678
Genotype*Dose		CG	0.1		DM	0.1	18.1466	15.2842	178	1.19	0.2367
Genotype*Dose		CG	0.1		DM	1	33.0455	15.1092	174	2.19	0.0301
Genotype*Dose		CG	0.1		DM	6	-5.6281	15.1750	177	-0.37	0.7112
Genotype*Dose		CG	0.1		DM	0	21.2479	15.2111	177	1.40	0.1642
Genotype*Dose		CG	0.1		RY	0.1	14.7795	15.1561	176	0.98	0.3308
Genotype*Dose		CG	0.1		RY	1	22.5158	15.0628	172	1.49	0.1368
Genotype*Dose		CG	0.1		RY	6	20.8805	15.1598	175	1.38	0.1702
Genotype*Dose		CG	0.1		RY	0	12.9798	15.1851	177	0.85	0.3938
Genotype*Dose		CG	0.1		WT	0.1	-17.4074	15.2132	178	-1.14	0.2541
Genotype*Dose		CG	0.1		WT	1	-21.0691	15.1354	175	-1.39	0.1657

*Mixed model for cell body area**The Mixed Procedure*

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Genotype*Dose		CG	0.1		WT	6	15.0749	15.0938	173	1.00	0.3193
Genotype*Dose		CG	0.1		WT	0	-40.0712	15.2872	181	-2.62	0.0095
Genotype*Dose		CG	1		CG	6	-6.9953	15.0456	171	-0.46	0.6426
Genotype*Dose		CG	1		CG	0	-11.6165	15.0914	173	-0.77	0.4425
Genotype*Dose		CG	1		DM	0.1	20.1467	15.2966	179	1.32	0.1895
Genotype*Dose		CG	1		DM	1	35.0455	15.1220	174	2.32	0.0216
Genotype*Dose		CG	1		DM	6	-3.6280	15.1879	177	-0.24	0.8115
Genotype*Dose		CG	1		DM	0	23.2480	15.2236	178	1.53	0.1285
Genotype*Dose		CG	1		RY	0.1	16.7796	15.1688	176	1.11	0.2702
Genotype*Dose		CG	1		RY	1	24.5159	15.0755	172	1.63	0.1057
Genotype*Dose		CG	1		RY	6	22.8806	15.1724	176	1.51	0.1333
Genotype*Dose		CG	1		RY	0	14.9799	15.1979	177	0.99	0.3256
Genotype*Dose		CG	1		WT	0.1	-15.4073	15.2259	179	-1.01	0.3129
Genotype*Dose		CG	1		WT	1	-19.0690	15.1482	175	-1.26	0.2098
Genotype*Dose		CG	1		WT	6	17.0750	15.1066	174	1.13	0.2599
Genotype*Dose		CG	1		WT	0	-38.0711	15.2997	182	-2.49	0.0137
Genotype*Dose		CG	6		CG	0	-4.6212	14.9675	167	-0.31	0.7579
Genotype*Dose		CG	6		DM	0.1	27.1420	15.1747	173	1.79	0.0754
Genotype*Dose		CG	6		DM	1	42.0408	14.9984	169	2.80	0.0057
Genotype*Dose		CG	6		DM	6	3.3673	15.0646	172	0.22	0.8234
Genotype*Dose		CG	6		DM	0	30.2432	15.1010	173	2.00	0.0468
Genotype*Dose		CG	6		RY	0.1	23.7748	15.0455	171	1.58	0.1159
Genotype*Dose		CG	6		RY	1	31.5111	14.9516	167	2.11	0.0366
Genotype*Dose		CG	6		RY	6	29.8758	15.0494	170	1.99	0.0487
Genotype*Dose		CG	6		RY	0	21.9751	15.0748	172	1.46	0.1467
Genotype*Dose		CG	6		WT	0.1	-8.4120	15.1031	173	-0.56	0.5783
Genotype*Dose		CG	6		WT	1	-12.0738	15.0247	170	-0.80	0.4228
Genotype*Dose		CG	6		WT	6	24.0702	14.9829	168	1.61	0.1100
Genotype*Dose		CG	6		WT	0	-31.0758	15.1777	176	-2.05	0.0421
Genotype*Dose		CG	0		DM	0.1	31.7632	15.2202	175	2.09	0.0383
Genotype*Dose		CG	0		DM	1	46.6620	15.0444	171	3.10	0.0023
Genotype*Dose		CG	0		DM	6	7.9885	15.1103	174	0.53	0.5977

*Mixed model for cell body area**The Mixed Procedure*

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Genotype*Dose		CG	0		DM	0	34.8645	15.1468	175	2.30	0.0225
Genotype*Dose		CG	0		RY	0.1	28.3961	15.0913	173	1.88	0.0616
Genotype*Dose		CG	0		RY	1	36.1323	14.9977	169	2.41	0.0171
Genotype*Dose		CG	0		RY	6	34.4971	15.0952	172	2.29	0.0235
Genotype*Dose		CG	0		RY	0	26.5963	15.1205	174	1.76	0.0803
Genotype*Dose		CG	0		WT	0.1	-3.7908	15.1488	175	-0.25	0.8027
Genotype*Dose		CG	0		WT	1	-7.4525	15.0705	172	-0.49	0.6216
Genotype*Dose		CG	0		WT	6	28.6915	15.0289	170	1.91	0.0579
Genotype*Dose		CG	0		WT	0	-26.4546	15.2232	178	-1.74	0.0840
Genotype*Dose		DM	0.1		DM	1	14.8988	15.2502	176	0.98	0.3299
Genotype*Dose		DM	0.1		DM	6	-23.7747	15.3160	179	-1.55	0.1224
Genotype*Dose		DM	0.1		DM	0	3.1013	15.3506	180	0.20	0.8401
Genotype*Dose		DM	0.1		RY	0.1	-3.3671	15.2969	179	-0.22	0.8260
Genotype*Dose		DM	0.1		RY	1	4.3691	15.2041	174	0.29	0.7742
Genotype*Dose		DM	0.1		RY	6	2.7339	15.3001	178	0.18	0.8584
Genotype*Dose		DM	0.1		RY	0	-5.1668	15.3258	179	-0.34	0.7364
Genotype*Dose		DM	0.1		WT	0.1	-35.5540	15.3535	181	-2.32	0.0217
Genotype*Dose		DM	0.1		WT	1	-39.2157	15.2766	177	-2.57	0.0111
Genotype*Dose		DM	0.1		WT	6	-3.0717	15.2351	176	-0.20	0.8404
Genotype*Dose		DM	0.1		WT	0	-58.2178	15.4263	184	-3.77	0.0002
Genotype*Dose		DM	1		DM	6	-38.6735	15.1411	175	-2.55	0.0115
Genotype*Dose		DM	1		DM	0	-11.7975	15.1770	176	-0.78	0.4380
Genotype*Dose		DM	1		RY	0.1	-18.2659	15.1220	174	-1.21	0.2287
Genotype*Dose		DM	1		RY	1	-10.5297	15.0284	170	-0.70	0.4845
Genotype*Dose		DM	1		RY	6	-12.1649	15.1257	174	-0.80	0.4223
Genotype*Dose		DM	1		RY	0	-20.0657	15.1511	175	-1.32	0.1871
Genotype*Dose		DM	1		WT	0.1	-50.4528	15.1793	177	-3.32	0.0011
Genotype*Dose		DM	1		WT	1	-54.1146	15.1013	173	-3.58	0.0004
Genotype*Dose		DM	1		WT	6	-17.9706	15.0596	171	-1.19	0.2344
Genotype*Dose		DM	1		WT	0	-73.1166	15.2533	179	-4.79	<.0001
Genotype*Dose		DM	6		DM	0	26.8760	15.2429	179	1.76	0.0796
Genotype*Dose		DM	6		RY	0.1	20.4076	15.1877	177	1.34	0.1808

*Mixed model for cell body area**The Mixed Procedure*

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Genotype*Dose		DM	6		RY	1	28.1438	15.0947	173	1.86	0.0639
Genotype*Dose		DM	6		RY	6	26.5086	15.1917	177	1.74	0.0827
Genotype*Dose		DM	6		RY	0	18.6078	15.2167	178	1.22	0.2230
Genotype*Dose		DM	6		WT	0.1	-11.7793	15.2448	180	-0.77	0.4407
Genotype*Dose		DM	6		WT	1	-15.4410	15.1670	176	-1.02	0.3100
Genotype*Dose		DM	6		WT	6	20.7030	15.1257	174	1.37	0.1728
Genotype*Dose		DM	6		WT	0	-34.4431	15.3188	182	-2.25	0.0257
Genotype*Dose		DM	0		RY	0.1	-6.4684	15.2238	178	-0.42	0.6714
Genotype*Dose		DM	0		RY	1	1.2679	15.1307	174	0.08	0.9333
Genotype*Dose		DM	0		RY	6	-0.3674	15.2271	178	-0.02	0.9808
Genotype*Dose		DM	0		RY	0	-8.2681	15.2528	179	-0.54	0.5884
Genotype*Dose		DM	0		WT	0.1	-38.6553	15.2807	181	-2.53	0.0123
Genotype*Dose		DM	0		WT	1	-42.3170	15.2034	177	-2.78	0.0060
Genotype*Dose		DM	0		WT	6	-6.1730	15.1617	175	-0.41	0.6844
Genotype*Dose		DM	0		WT	0	-61.3191	15.3539	183	-3.99	<.0001
Genotype*Dose		RY	0.1		RY	1	7.7363	15.0756	172	0.51	0.6085
Genotype*Dose		RY	0.1		RY	6	6.1010	15.1726	176	0.40	0.6881
Genotype*Dose		RY	0.1		RY	0	-1.7997	15.1978	177	-0.12	0.9059
Genotype*Dose		RY	0.1		WT	0.1	-32.1869	15.2259	179	-2.11	0.0359
Genotype*Dose		RY	0.1		WT	1	-35.8486	15.1481	175	-2.37	0.0190
Genotype*Dose		RY	0.1		WT	6	0.2954	15.1066	174	0.02	0.9844
Genotype*Dose		RY	0.1		WT	0	-54.8507	15.2999	182	-3.59	0.0004
Genotype*Dose		RY	1		RY	6	-1.6353	15.0792	172	-0.11	0.9138
Genotype*Dose		RY	1		RY	0	-9.5360	15.1048	173	-0.63	0.5287
Genotype*Dose		RY	1		WT	0.1	-39.9231	15.1330	175	-2.64	0.0091
Genotype*Dose		RY	1		WT	1	-43.5849	15.0548	171	-2.90	0.0043
Genotype*Dose		RY	1		WT	6	-7.4409	15.0130	169	-0.50	0.6208
Genotype*Dose		RY	1		WT	0	-62.5869	15.2073	177	-4.12	<.0001
Genotype*Dose		RY	6		RY	0	-7.9007	15.2016	177	-0.52	0.6039
Genotype*Dose		RY	6		WT	0.1	-38.2879	15.2297	178	-2.51	0.0128
Genotype*Dose		RY	6		WT	1	-41.9496	15.1520	175	-2.77	0.0062
Genotype*Dose		RY	6		WT	6	-5.8056	15.1103	173	-0.38	0.7013

*Mixed model for cell body area**The Mixed Procedure*

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Genotype*Dose		RY	6		WT	0	-60.9517	15.3033	181	-3.98	<.0001
Genotype*Dose		RY	0		WT	0.1	-30.3872	15.2548	180	-1.99	0.0479
Genotype*Dose		RY	0		WT	1	-34.0489	15.1771	176	-2.24	0.0261
Genotype*Dose		RY	0		WT	6	2.0951	15.1358	175	0.14	0.8901
Genotype*Dose		RY	0		WT	0	-53.0510	15.3287	183	-3.46	0.0007
Genotype*Dose		WT	0.1		WT	1	-3.6617	15.2053	178	-0.24	0.8100
Genotype*Dose		WT	0.1		WT	6	32.4823	15.1640	176	2.14	0.0336
Genotype*Dose		WT	0.1		WT	0	-22.6638	15.3565	184	-1.48	0.1417
Genotype*Dose		WT	1		WT	6	36.1440	15.0859	172	2.40	0.0177
Genotype*Dose		WT	1		WT	0	-19.0021	15.2795	180	-1.24	0.2152
Genotype*Dose		WT	6		WT	0	-55.1461	15.2381	179	-3.62	0.0004

*Mixed model for tips per dendrite**The Mixed Procedure*

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				3.9063	0.1211	186	32.26	<.0001	0.05	3.6674	4.1452
Sex	F			0.01805	0.08433	177	0.21	0.8308	0.05	-0.1484	0.1845
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		0.2036	0.1190	176	1.71	0.0887	0.05	-0.03114	0.4384
Genotype		DM		0.1367	0.1203	181	1.14	0.2571	0.05	-0.1006	0.3740
Genotype		RY		0.05098	0.1195	179	0.43	0.6703	0.05	-0.1849	0.2869
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	0.1712	0.1205	182	1.42	0.1571	0.05	-0.06654	0.4089
Dose			1	0.1504	0.1193	177	1.26	0.2089	0.05	-0.08496	0.3858
Dose			6	0.07269	0.1192	177	0.61	0.5428	0.05	-0.1626	0.3079
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	177	0.05	0.8308
Genotype	3	177	1.15	0.3291
Dose	3	177	0.85	0.4688

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			4.1207	0.05928
Sex	M			4.1027	0.05999
Genotype		CG		4.2175	0.08322
Genotype		DM		4.1506	0.08505
Genotype		RY		4.0649	0.08405
Genotype		WT		4.0139	0.08503
Dose			0.1	4.1843	0.08524
Dose			1	4.1636	0.08352

*Mixed model for tips per dendrite**The Mixed Procedure*

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Dose			6	4.0858	0.08344
Dose			0	4.0132	0.08515

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			0.01805	0.08433	177	0.21	0.8308
Genotype		CG			DM		0.06695	0.1190	176	0.56	0.5744
Genotype		CG			RY		0.1527	0.1183	173	1.29	0.1985
Genotype		CG			WT		0.2036	0.1190	176	1.71	0.0887
Genotype		DM			RY		0.08572	0.1196	178	0.72	0.4743
Genotype		DM			WT		0.1367	0.1203	181	1.14	0.2571
Genotype		RY			WT		0.05098	0.1195	179	0.43	0.6703
Dose			0.1			1	0.02074	0.1193	178	0.17	0.8622
Dose			0.1			6	0.09847	0.1193	177	0.83	0.4102
Dose			0.1			0	0.1712	0.1205	182	1.42	0.1571
Dose			1			6	0.07773	0.1181	172	0.66	0.5112
Dose			1			0	0.1504	0.1193	177	1.26	0.2089
Dose			6			0	0.07269	0.1192	177	0.61	0.5428

*Mixed model for dendritic mean length**The Mixed Procedure*

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				223.33	10.3049	186	21.67	<.0001	0.05	203.00	243.66
Sex	F			6.2042	7.1962	178	0.86	0.3898	0.05	-7.9964	20.4049
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		14.2219	10.1548	178	1.40	0.1631	0.05	-5.8176	34.2615
Genotype		DM		16.7059	10.2476	182	1.63	0.1048	0.05	-3.5135	36.9252
Genotype		RY		1.7154	10.1959	180	0.17	0.8666	0.05	-18.4036	21.8343
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	15.2502	10.2623	183	1.49	0.1390	0.05	-4.9975	35.4979
Dose			1	13.1141	10.1770	179	1.29	0.1992	0.05	-6.9685	33.1967
Dose			6	4.8605	10.1731	178	0.48	0.6334	0.05	-15.2149	24.9358
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	178	0.74	0.3898
Genotype	3	178	1.40	0.2453
Dose	3	178	0.97	0.4077

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			246.00	5.0623
Sex	M			239.80	5.1154
Genotype		CG		248.96	7.1172
Genotype		DM		251.45	7.2498
Genotype		RY		236.46	7.1763
Genotype		WT		234.74	7.2435
Dose			0.1	249.85	7.2610
Dose			1	247.71	7.1387

*Mixed model for dendritic mean length**The Mixed Procedure*

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Dose			6	239.46	7.1340
Dose			0	234.60	7.2533

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			6.2042	7.1962	178	0.86	0.3898
Genotype		CG			DM		-2.4840	10.1596	177	-0.24	0.8071
Genotype		CG			RY		12.5065	10.1075	175	1.24	0.2176
Genotype		CG			WT		14.2219	10.1548	178	1.40	0.1631
Genotype		DM			RY		14.9905	10.2001	179	1.47	0.1434
Genotype		DM			WT		16.7059	10.2476	182	1.63	0.1048
Genotype		RY			WT		1.7154	10.1959	180	0.17	0.8666
Dose			0.1			1	2.1361	10.1823	179	0.21	0.8341
Dose			0.1			6	10.3897	10.1788	178	1.02	0.3088
Dose			0.1			0	15.2502	10.2623	183	1.49	0.1390
Dose			1			6	8.2536	10.0928	174	0.82	0.4146
Dose			1			0	13.1141	10.1770	179	1.29	0.1992
Dose			6			0	4.8605	10.1731	178	0.48	0.6334

*Mixed model for Nodes**The Mixed Procedure*

Solution for Fixed Effects											
Effect	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept				10.7728	0.4052	189	26.58	<.0001	0.05	9.9734	11.5721
Sex	F			-0.04357	0.2840	183	-0.15	0.8782	0.05	-0.6039	0.5168
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		0.1744	0.4009	183	0.44	0.6641	0.05	-0.6166	0.9654
Genotype		DM		-0.4350	0.4037	186	-1.08	0.2826	0.05	-1.2315	0.3614
Genotype		RY		-0.5319	0.4021	184	-1.32	0.1876	0.05	-1.3252	0.2614
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	0.3004	0.4041	187	0.74	0.4582	0.05	-0.4968	1.0977
Dose			1	0.4991	0.4016	184	1.24	0.2155	0.05	-0.2932	1.2914
Dose			6	0.2795	0.4015	183	0.70	0.4872	0.05	-0.5127	1.0717
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	183	0.02	0.8782
Genotype	3	183	1.44	0.2340
Dose	3	183	0.52	0.6680

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			10.8008	0.2000
Sex	M			10.8444	0.2017
Genotype		CG		11.1951	0.2817
Genotype		DM		10.5857	0.2857
Genotype		RY		10.4888	0.2834
Genotype		WT		11.0207	0.2853
Dose			0.1	10.8533	0.2859
Dose			1	11.0519	0.2823

*Mixed model for Nodes**The Mixed Procedure*

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Dose			6	10.8324	0.2822
Dose			0	10.5529	0.2856

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			-0.04357	0.2840	183	-0.15	0.8782
Genotype		CG			DM		0.6094	0.4012	182	1.52	0.1305
Genotype		CG			RY		0.7063	0.3996	181	1.77	0.0788
Genotype		CG			WT		0.1744	0.4009	183	0.44	0.6641
Genotype		DM			RY		0.09686	0.4024	184	0.24	0.8100
Genotype		DM			WT		-0.4350	0.4037	186	-1.08	0.2826
Genotype		RY			WT		-0.5319	0.4021	184	-1.32	0.1876
Dose			0.1			1	-0.1987	0.4018	183	-0.49	0.6216
Dose			0.1			6	0.02093	0.4018	183	0.05	0.9585
Dose			0.1			0	0.3004	0.4041	187	0.74	0.4582
Dose			1			6	0.2196	0.3992	180	0.55	0.5830
Dose			1			0	0.4991	0.4016	184	1.24	0.2155
Dose			6			0	0.2795	0.4015	183	0.70	0.4872