Cortex 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				1.7541	0.1086	175	16.16	<.0001	0.05	1.5398	1.9683
Sex	F			0.02807	0.05272	42E3	0.53	0.5944	0.05	-0.07526	0.1314
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		0.3795	0.1488	42E3	2.55	0.0107	0.05	0.08797	0.6711
Genotype		DM		0.06451	0.1488	42E3	0.43	0.6645	0.05	-0.2270	0.3561
Genotype		RY		-0.01348	0.1489	42E3	-0.09	0.9279	0.05	-0.3053	0.2784
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	0.1477	0.1489	42E3	0.99	0.3212	0.05	-0.1441	0.4396
Dose			1	0.1035	0.1495	42E3	0.69	0.4885	0.05	-0.1894	0.3965
Dose			6	0.2394	0.1491	42E3	1.61	0.1083	0.05	-0.05278	0.5315
Dose			0	0	.	.	.	.	.	.	.
Genotype*Dose		CG	0.1	-0.3273	0.2104	42E3	-1.56	0.1197	0.05	-0.7396	0.08502
Genotype*Dose		CG	1	-0.2455	0.2109	42E3	-1.16	0.2443	0.05	-0.6588	0.1678
Genotype*Dose		CG	6	-0.6770	0.2107	42E3	-3.21	0.0013	0.05	-1.0900	-0.2641
Genotype*Dose		CG	0	0	.	.	.	.	.	.	.
Genotype*Dose		DM	0.1	-0.2038	0.2105	42E3	-0.97	0.3330	0.05	-0.6163	0.2088
Genotype*Dose		DM	1	0.2928	0.2109	42E3	1.39	0.1649	0.05	-0.1205	0.7061
Genotype*Dose		DM	6	-0.3065	0.2109	42E3	-1.45	0.1462	0.05	-0.7199	0.1069
Genotype*Dose		DM	0	0	.	.	.	.	.	.	.
Genotype*Dose		RY	0.1	0.1080	0.2107	42E3	0.51	0.6084	0.05	-0.3050	0.5209
Genotype*Dose		RY	1	0.2132	0.2109	42E3	1.01	0.3121	0.05	-0.2002	0.6265
Genotype*Dose		RY	6	-0.1652	0.2112	42E3	-0.78	0.4341	0.05	-0.5791	0.2487
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	.	.	.	.	.	.	.

Cortex Sholl Profile Analysis

The Mixed Procedure

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	42E3	0.28	0.5944
Genotype	3	42E3	0.31	0.8152
Dose	3	42E3	3.10	0.0257
Genotype*Dose	9	42E3	2.39	0.0106

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			1.9305	0.03727
Sex	M			1.9024	0.03728
Genotype		CG		1.9578	0.05262
Genotype		DM		1.9009	0.05270
Genotype		RY		1.9163	0.05278
Genotype		WT		1.8908	0.05277
Dose			0.1	1.9177	0.05265
Dose			1	2.0444	0.05272
Dose			6	1.8279	0.05291
Dose			0	1.8757	0.05259
Genotype*Dose		CG	0.1	1.9680	0.1051
Genotype*Dose		CG	1	2.0057	0.1053
Genotype*Dose		CG	6	1.7100	0.1055
Genotype*Dose		CG	0	2.1476	0.1051
Genotype*Dose		DM	0.1	1.7766	0.1053
Genotype*Dose		DM	1	2.2290	0.1053
Genotype*Dose		DM	6	1.7655	0.1060
Genotype*Dose		DM	0	1.8326	0.1051
Genotype*Dose		RY	0.1	2.0103	0.1055
Genotype*Dose		RY	1	2.0714	0.1051
Genotype*Dose		RY	6	1.8288	0.1063
Genotype*Dose		RY	0	1.7546	0.1053
Genotype*Dose		WT	0.1	1.9158	0.1053
Genotype*Dose		WT	1	1.8716	0.1061

Cortex Sholl Profile Analysis

The Mixed Procedure

Least Squares Means					
Effect	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**
Genotype*Dose		WT	6	2.0075	0.1055
Genotype*Dose		WT	0	1.7681	0.1053

Differences of Least Squares Means											
Effect	**Sex**	**Genotype**	**Dose**	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex	F			M			0.02807	0.05272	42E3	0.53	0.5944
Genotype		CG			DM		0.05691	0.07447	42E3	0.76	0.4448
Genotype		CG			RY		0.04156	0.07452	42E3	0.56	0.5770
Genotype		CG			WT		0.06707	0.07452	42E3	0.90	0.3681
Genotype		DM			RY		-0.01535	0.07459	42E3	-0.21	0.8370
Genotype		DM			WT		0.01016	0.07458	42E3	0.14	0.8917
Genotype		RY			WT		0.02550	0.07463	42E3	0.34	0.7326
Dose			0.1			1	-0.1267	0.07451	42E3	-1.70	0.0889
Dose			0.1			6	0.08974	0.07464	42E3	1.20	0.2292
Dose			0.1			0	0.04193	0.07441	42E3	0.56	0.5731
Dose			1			6	0.2165	0.07469	42E3	2.90	0.0038
Dose			1			0	0.1687	0.07447	42E3	2.26	0.0235
Dose			6			0	-0.04781	0.07460	42E3	-0.64	0.5216
Genotype*Dose		CG	0.1		CG	1	-0.03762	0.1488	42E3	-0.25	0.8003
Genotype*Dose		CG	0.1		CG	6	0.2580	0.1489	42E3	1.73	0.0831
Genotype*Dose		CG	0.1		CG	0	-0.1796	0.1486	42E3	-1.21	0.2268
Genotype*Dose		CG	0.1		DM	0.1	0.1915	0.1488	42E3	1.29	0.1981
Genotype*Dose		CG	0.1		DM	1	-0.2610	0.1488	42E3	-1.75	0.0794
Genotype*Dose		CG	0.1		DM	6	0.2026	0.1492	42E3	1.36	0.1747
Genotype*Dose		CG	0.1		DM	0	0.1354	0.1486	42E3	0.91	0.3622
Genotype*Dose		CG	0.1		RY	0.1	-0.04225	0.1489	42E3	-0.28	0.7766
Genotype*Dose		CG	0.1		RY	1	-0.1033	0.1486	42E3	-0.70	0.4869
Genotype*Dose		CG	0.1		RY	6	0.1392	0.1495	42E3	0.93	0.3515
Genotype*Dose		CG	0.1		RY	0	0.2134	0.1488	42E3	1.43	0.1514
Genotype*Dose		CG	0.1		WT	0.1	0.05222	0.1488	42E3	0.35	0.7255
Genotype*Dose		CG	0.1		WT	1	0.09639	0.1493	42E3	0.65	0.5186

Cortex Sholl Profile Analysis

The Mixed Procedure

Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Genotype*Dose		CG	0.1		WT	6	-0.03944	0.1489	42E3	-0.26	0.7911
Genotype*Dose		CG	0.1		WT	0	0.1999	0.1488	42E3	1.34	0.1789
Genotype*Dose		CG	1		CG	6	0.2957	0.1491	42E3	1.98	0.0473
Genotype*Dose		CG	1		CG	0	-0.1420	0.1488	42E3	-0.95	0.3399
Genotype*Dose		CG	1		DM	0.1	0.2291	0.1489	42E3	1.54	0.1239
Genotype*Dose		CG	1		DM	1	-0.2233	0.1489	42E3	-1.50	0.1336
Genotype*Dose		CG	1		DM	6	0.2402	0.1494	42E3	1.61	0.1079
Genotype*Dose		CG	1		DM	0	0.1730	0.1488	42E3	1.16	0.2447
Genotype*Dose		CG	1		RY	0.1	-0.00463	0.1491	42E3	-0.03	0.9752
Genotype*Dose		CG	1		RY	1	-0.06569	0.1488	42E3	-0.44	0.6588
Genotype*Dose		CG	1		RY	6	0.1769	0.1496	42E3	1.18	0.2372
Genotype*Dose		CG	1		RY	0	0.2510	0.1489	42E3	1.69	0.0918
Genotype*Dose		CG	1		WT	0.1	0.08984	0.1489	42E3	0.60	0.5463
Genotype*Dose		CG	1		WT	1	0.1340	0.1495	42E3	0.90	0.3699
Genotype*Dose		CG	1		WT	6	-0.00182	0.1491	42E3	-0.01	0.9903
Genotype*Dose		CG	1		WT	0	0.2376	0.1489	42E3	1.60	0.1106
Genotype*Dose		CG	6		CG	0	-0.4376	0.1489	42E3	-2.94	0.0033
Genotype*Dose		CG	6		DM	0.1	-0.06658	0.1491	42E3	-0.45	0.6551
Genotype*Dose		CG	6		DM	1	-0.5190	0.1491	42E3	-3.48	0.0005
Genotype*Dose		CG	6		DM	6	-0.05549	0.1495	42E3	-0.37	0.7106
Genotype*Dose		CG	6		DM	0	-0.1226	0.1489	42E3	-0.82	0.4102
Genotype*Dose		CG	6		RY	0.1	-0.3003	0.1492	42E3	-2.01	0.0442
Genotype*Dose		CG	6		RY	1	-0.3614	0.1489	42E3	-2.43	0.0153
Genotype*Dose		CG	6		RY	6	-0.1188	0.1498	42E3	-0.79	0.4276
Genotype*Dose		CG	6		RY	0	-0.04464	0.1491	42E3	-0.30	0.7646
Genotype*Dose		CG	6		WT	0.1	-0.2058	0.1491	42E3	-1.38	0.1673
Genotype*Dose		CG	6		WT	1	-0.1617	0.1496	42E3	-1.08	0.2799
Genotype*Dose		CG	6		WT	6	-0.2975	0.1492	42E3	-1.99	0.0462
Genotype*Dose		CG	6		WT	0	-0.05812	0.1491	42E3	-0.39	0.6966
Genotype*Dose		CG	0		DM	0.1	0.3711	0.1488	42E3	2.49	0.0126
Genotype*Dose		CG	0		DM	1	-0.08137	0.1488	42E3	-0.55	0.5844
Genotype*Dose		CG	0		DM	6	0.3822	0.1492	42E3	2.56	0.0105

Cortex Sholl Profile Analysis

The Mixed Procedure

Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Differences of Least Squares Means											
Genotype*Dose		CG	0		DM	0	0.3150	0.1486	42E3	2.12	0.0340
Genotype*Dose		CG	0		RY	0.1	0.1373	0.1489	42E3	0.92	0.3563
Genotype*Dose		CG	0		RY	1	0.07628	0.1486	42E3	0.51	0.6078
Genotype*Dose		CG	0		RY	6	0.3188	0.1495	42E3	2.13	0.0329
Genotype*Dose		CG	0		RY	0	0.3930	0.1488	42E3	2.64	0.0082
Genotype*Dose		CG	0		WT	0.1	0.2318	0.1488	42E3	1.56	0.1191
Genotype*Dose		CG	0		WT	1	0.2760	0.1493	42E3	1.85	0.0646
Genotype*Dose		CG	0		WT	6	0.1402	0.1489	42E3	0.94	0.3466
Genotype*Dose		CG	0		WT	0	0.3795	0.1488	42E3	2.55	0.0107
Genotype*Dose		DM	0.1		DM	1	-0.4524	0.1489	42E3	-3.04	0.0024
Genotype*Dose		DM	0.1		DM	6	0.01109	0.1494	42E3	0.07	0.9408
Genotype*Dose		DM	0.1		DM	0	-0.05605	0.1488	42E3	-0.38	0.7063
Genotype*Dose		DM	0.1		RY	0.1	-0.2337	0.1491	42E3	-1.57	0.1169
Genotype*Dose		DM	0.1		RY	1	-0.2948	0.1488	42E3	-1.98	0.0476
Genotype*Dose		DM	0.1		RY	6	-0.05222	0.1496	42E3	-0.35	0.7271
Genotype*Dose		DM	0.1		RY	0	0.02194	0.1489	42E3	0.15	0.8828
Genotype*Dose		DM	0.1		WT	0.1	-0.1392	0.1489	42E3	-0.94	0.3497
Genotype*Dose		DM	0.1		WT	1	-0.09508	0.1495	42E3	-0.64	0.5247
Genotype*Dose		DM	0.1		WT	6	-0.2309	0.1491	42E3	-1.55	0.1214
Genotype*Dose		DM	0.1		WT	0	0.008462	0.1489	42E3	0.06	0.9547
Genotype*Dose		DM	1		DM	6	0.4635	0.1494	42E3	3.10	0.0019
Genotype*Dose		DM	1		DM	0	0.3964	0.1488	42E3	2.66	0.0077
Genotype*Dose		DM	1		RY	0.1	0.2187	0.1491	42E3	1.47	0.1423
Genotype*Dose		DM	1		RY	1	0.1576	0.1488	42E3	1.06	0.2893
Genotype*Dose		DM	1		RY	6	0.4002	0.1496	42E3	2.67	0.0075
Genotype*Dose		DM	1		RY	0	0.4744	0.1489	42E3	3.19	0.0014
Genotype*Dose		DM	1		WT	0.1	0.3132	0.1489	42E3	2.10	0.0354
Genotype*Dose		DM	1		WT	1	0.3574	0.1495	42E3	2.39	0.0168
Genotype*Dose		DM	1		WT	6	0.2215	0.1491	42E3	1.49	0.1372
Genotype*Dose		DM	1		WT	0	0.4609	0.1489	42E3	3.10	0.0020
Genotype*Dose		DM	6		DM	0	-0.06714	0.1492	42E3	-0.45	0.6528
Genotype*Dose		DM	6		RY	0.1	-0.2448	0.1495	42E3	-1.64	0.1016

Cortex Sholl Profile Analysis

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	-0.3059	0.1493	42E3	-2.05	0.0404
Genotype*Dose		DM	6		RY	6	-0.06331	0.1501	42E3	-0.42	0.6732
Genotype*Dose		DM	6		RY	0	0.01085	0.1494	42E3	0.07	0.9421
Genotype*Dose		DM	6		WT	0.1	-0.1503	0.1494	42E3	-1.01	0.3143
Genotype*Dose		DM	6		WT	1	-0.1062	0.1499	42E3	-0.71	0.4789
Genotype*Dose		DM	6		WT	6	-0.2420	0.1495	42E3	-1.62	0.1056
Genotype*Dose		DM	6		WT	0	-0.00263	0.1494	42E3	-0.02	0.9860
Genotype*Dose		DM	0		RY	0.1	-0.1777	0.1489	42E3	-1.19	0.2328
Genotype*Dose		DM	0		RY	1	-0.2387	0.1486	42E3	-1.61	0.1082
Genotype*Dose		DM	0		RY	6	0.003827	0.1495	42E3	0.03	0.9796
Genotype*Dose		DM	0		RY	0	0.07799	0.1488	42E3	0.52	0.6001
Genotype*Dose		DM	0		WT	0.1	-0.08320	0.1488	42E3	-0.56	0.5760
Genotype*Dose		DM	0		WT	1	-0.03903	0.1493	42E3	-0.26	0.7938
Genotype*Dose		DM	0		WT	6	-0.1749	0.1489	42E3	-1.17	0.2403
Genotype*Dose		DM	0		WT	0	0.06451	0.1488	42E3	0.43	0.6645
Genotype*Dose		RY	0.1		RY	1	-0.06107	0.1489	42E3	-0.41	0.6818
Genotype*Dose		RY	0.1		RY	6	0.1815	0.1498	42E3	1.21	0.2256
Genotype*Dose		RY	0.1		RY	0	0.2557	0.1491	42E3	1.72	0.0863
Genotype*Dose		RY	0.1		WT	0.1	0.09447	0.1491	42E3	0.63	0.5262
Genotype*Dose		RY	0.1		WT	1	0.1386	0.1496	42E3	0.93	0.3541
Genotype*Dose		RY	0.1		WT	6	0.002810	0.1492	42E3	0.02	0.9850
Genotype*Dose		RY	0.1		WT	0	0.2422	0.1491	42E3	1.62	0.1042
Genotype*Dose		RY	1		RY	6	0.2426	0.1495	42E3	1.62	0.1047
Genotype*Dose		RY	1		RY	0	0.3167	0.1488	42E3	2.13	0.0333
Genotype*Dose		RY	1		WT	0.1	0.1555	0.1488	42E3	1.05	0.2958
Genotype*Dose		RY	1		WT	1	0.1997	0.1493	42E3	1.34	0.1811
Genotype*Dose		RY	1		WT	6	0.06388	0.1489	42E3	0.43	0.6680
Genotype*Dose		RY	1		WT	0	0.3032	0.1488	42E3	2.04	0.0415
Genotype*Dose		RY	6		RY	0	0.07416	0.1496	42E3	0.50	0.6201
Genotype*Dose		RY	6		WT	0.1	-0.08702	0.1496	42E3	-0.58	0.5608
Genotype*Dose		RY	6		WT	1	-0.04286	0.1502	42E3	-0.29	0.7754
Genotype*Dose		RY	6		WT	6	-0.1787	0.1498	42E3	-1.19	0.2328

Cortex Sholl Profile Analysis

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	0.06068	0.1496	42E3	0.41	0.6850
Genotype*Dose		RY	0		WT	0.1	-0.1612	0.1489	42E3	-1.08	0.2790
Genotype*Dose		RY	0		WT	1	-0.1170	0.1495	42E3	-0.78	0.4337
Genotype*Dose		RY	0		WT	6	-0.2528	0.1491	42E3	-1.70	0.0898
Genotype*Dose		RY	0		WT	0	-0.01348	0.1489	42E3	-0.09	0.9279
Genotype*Dose		WT	0.1		WT	1	0.04417	0.1495	42E3	0.30	0.7676
Genotype*Dose		WT	0.1		WT	6	-0.09166	0.1491	42E3	-0.61	0.5386
Genotype*Dose		WT	0.1		WT	0	0.1477	0.1489	42E3	0.99	0.3212
Genotype*Dose		WT	1		WT	6	-0.1358	0.1496	42E3	-0.91	0.3640
Genotype*Dose		WT	1		WT	0	0.1035	0.1495	42E3	0.69	0.4885
Genotype*Dose		WT	6		WT	0	0.2394	0.1491	42E3	1.61	0.1083

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				29.5272	0.7502	183	39.36	<.0001	0.05	28.0471	31.0073
Sex	F			0.1358	0.5313	184	0.26	0.7985	0.05	-0.9124	1.1841
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		-0.08644	0.7508	183	-0.12	0.9085	0.05	-1.5677	1.3948
Genotype		DM		-0.9275	0.7520	185	-1.23	0.2190	0.05	-2.4111	0.5562
Genotype		RY		-0.8436	0.7524	185	-1.12	0.2637	0.05	-2.3281	0.6408
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	0.6976	0.7492	182	0.93	0.3530	0.05	-0.7805	2.1758
Dose			1	1.0320	0.7499	183	1.38	0.1705	0.05	-0.4476	2.5116
Dose			6	0.7874	0.7524	185	1.05	0.2967	0.05	-0.6969	2.2717
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	184	0.07	0.7985
Genotype	3	184	0.85	0.4703
Dose	3	184	0.70	0.5548

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			29.8279	0.3757
Sex	M			29.6921	0.3757
Genotype		CG		30.1379	0.5297
Genotype		DM		29.2969	0.5315
Genotype		RY		29.3807	0.5321
Genotype		WT		30.2244	0.5320
Dose			0.1	29.8284	0.5302
Dose			1	30.1627	0.5312

Mixed model for Peak X

The Mixed Procedure

Least Squares Means					
Effect	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**
Dose			6	29.9181	0.5347
Dose			0	29.1307	0.5293

Differences of Least Squares Means										
Effect	**Sex**	**Genotype**	**Dose**	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex	F			M			0.1358	0.5313	184	0.26	0.7985
Genotype		CG			DM		0.8410	0.7504	183	1.12	0.2638
Genotype		CG			RY		0.7572	0.7508	183	1.01	0.3145
Genotype		CG			WT		-0.08644	0.7508	183	-0.12	0.9085
Genotype		DM			RY		-0.08385	0.7520	185	-0.11	0.9113
Genotype		DM			WT		-0.9275	0.7520	185	-1.23	0.2190
Genotype		RY			WT		-0.8436	0.7524	185	-1.12	0.2637
Dose			0.1			1	-0.3343	0.7505	183	-0.45	0.6565
Dose			0.1			6	-0.08977	0.7529	185	-0.12	0.9052
Dose			0.1			0	0.6976	0.7492	182	0.93	0.3530
Dose			1			6	0.2446	0.7537	186	0.32	0.7459
Dose			1			0	1.0320	0.7499	183	1.38	0.1705
Dose			6			0	0.7874	0.7524	185	1.05	0.2967

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				10.0810	0.3140	179	32.11	<.0001	0.05	9.4614	10.7006
Sex	F			0.1612	0.3782	178	0.43	0.6704	0.05	-0.5851	0.9076
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		0.2541	0.2679	179	0.95	0.3441	0.05	-0.2745	0.7827
Genotype		DM		-0.06333	0.2681	179	-0.24	0.8135	0.05	-0.5924	0.4658
Genotype		RY		0.1256	0.2682	180	0.47	0.6401	0.05	-0.4036	0.6549
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	0.2534	0.3784	178	0.67	0.5040	0.05	-0.4933	1.0000
Dose			1	0.4156	0.3784	178	1.10	0.2736	0.05	-0.3311	1.1623
Dose			6	-0.1790	0.3795	180	-0.47	0.6378	0.05	-0.9278	0.5699
Dose			0	0	.	.	.	.	.	.	.
Sex*Dose	F		0.1	-0.3458	0.5351	178	-0.65	0.5190	0.05	-1.4017	0.7102
Sex*Dose	F		1	0.3818	0.5354	178	0.71	0.4767	0.05	-0.6748	1.4384
Sex*Dose	F		6	-0.1059	0.5364	180	-0.20	0.8437	0.05	-1.1643	0.9525
Sex*Dose	F		0	0	.	.	.	.	.	.	.
Sex*Dose	M		0.1	0	.	.	.	.	.	.	.
Sex*Dose	M		1	0	.	.	.	.	.	.	.
Sex*Dose	M		6	0	.	.	.	.	.	.	.
Sex*Dose	M		0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Sex	1	179	0.58	0.4492
Genotype	3	179	0.55	0.6478
Dose	3	179	3.49	0.0170
Sex*Dose	3	179	0.64	0.5906

Mixed model for Peak Y

The Mixed Procedure

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			10.4263	0.1340
Sex	M			10.2826	0.1340
Genotype		CG		10.5295	0.1892
Genotype		DM		10.2120	0.1895
Genotype		RY		10.4010	0.1897
Genotype		WT		10.2754	0.1897
Dose			0.1	10.3212	0.1893
Dose			1	10.8472	0.1895
Dose			6	10.0088	0.1902
Dose			0	10.2407	0.1891

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			0.1437	0.1895	179	0.76	0.4492
Genotype		CG			DM		0.3174	0.2678	179	1.19	0.2375
Genotype		CG			RY		0.1285	0.2679	179	0.48	0.6322
Genotype		CG			WT		0.2541	0.2679	179	0.95	0.3441
Genotype		DM			RY		-0.1890	0.2681	179	-0.70	0.4819
Genotype		DM			WT		-0.06333	0.2681	179	-0.24	0.8135
Genotype		RY			WT		0.1256	0.2682	180	0.47	0.6401
Dose			0.1			1	-0.5260	0.2678	179	-1.96	0.0511
Dose			0.1			6	0.3124	0.2683	180	1.16	0.2458
Dose			0.1			0	0.08047	0.2675	178	0.30	0.7639
Dose			1			6	0.8384	0.2685	180	3.12	0.0021
Dose			1			0	0.6065	0.2677	178	2.27	0.0247
Dose			6			0	-0.2319	0.2682	180	-0.86	0.3883

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				509.32	31.6586	173	16.09	<.0001	0.05	446.84	571.81
Sex	F			6.7592	15.3727	173	0.44	0.6607	0.05	-23.5827	37.1010
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		110.11	43.3836	172	2.54	0.0120	0.05	24.4756	195.74
Genotype		DM		15.7337	43.3836	172	0.36	0.7173	0.05	-69.8994	101.37
Genotype		RY		-3.9220	43.4226	173	-0.09	0.9281	0.05	-89.6300	81.7861
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	42.8305	43.4226	173	0.99	0.3253	0.05	-42.8775	128.54
Dose			1	29.6071	43.5688	175	0.68	0.4977	0.05	-56.3826	115.60
Dose			6	69.5275	43.4619	173	1.60	0.1115	0.05	-16.2559	155.31
Dose			0	0	.	.	.	.	.	.	.
Genotype*Dose		CG	0.1	-94.9139	61.3537	172	-1.55	0.1237	0.05	-216.02	26.1897
Genotype*Dose		CG	1	-70.7806	61.4848	173	-1.15	0.2512	0.05	-192.14	50.5752
Genotype*Dose		CG	6	-196.43	61.4368	173	-3.20	0.0017	0.05	-317.69	-75.1626
Genotype*Dose		CG	0	0	.	.	.	.	.	.	.
Genotype*Dose		DM	0.1	-56.1459	61.3813	172	-0.91	0.3616	0.05	-177.30	65.0107
Genotype*Dose		DM	1	88.2543	61.4848	173	1.44	0.1530	0.05	-33.1017	209.61
Genotype*Dose		DM	6	-94.2500	61.5271	174	-1.53	0.1274	0.05	-215.69	27.1865
Genotype*Dose		DM	0	0	.	.	.	.	.	.	.
Genotype*Dose		RY	0.1	31.3776	61.4366	173	0.51	0.6102	0.05	-89.8852	152.64
Genotype*Dose		RY	1	62.2473	61.4892	173	1.01	0.3128	0.05	-59.1171	183.61
Genotype*Dose		RY	6	-48.0926	61.5686	174	-0.78	0.4358	0.05	-169.61	73.4242
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 AUC total

The Mixed Procedure

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	173	0.19	0.6607
Genotype	3	173	0.36	0.7832
Dose	3	173	3.23	0.0239
Genotype*Dose	9	173	2.40	0.0136

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			558.38	10.8703
Sex	M			551.63	10.8702
Genotype		CG		567.77	15.3454
Genotype		DM		548.39	15.3748
Genotype		RY		555.66	15.3863
Genotype		WT		548.20	15.3850
Dose			0.1	556.09	15.3523
Dose			1	592.72	15.3723
Dose			6	528.02	15.4285
Dose			0	543.18	15.3384
Genotype*Dose		CG	0.1	570.73	30.6492
Genotype*Dose		CG	1	581.64	30.7044
Genotype*Dose		CG	6	495.91	30.7599
Genotype*Dose		CG	0	622.81	30.6492
Genotype*Dose		DM	0.1	515.12	30.7044
Genotype*Dose		DM	1	646.30	30.7044
Genotype*Dose		DM	6	503.71	30.9399
Genotype*Dose		DM	0	528.44	30.6492
Genotype*Dose		RY	0.1	582.99	30.7599
Genotype*Dose		RY	1	600.64	30.6579
Genotype*Dose		RY	6	530.22	30.9675
Genotype*Dose		RY	0	508.78	30.7044
Genotype*Dose		WT	0.1	555.53	30.7044
Genotype*Dose		WT	1	542.31	30.9108

Mixed model for AUC total

The Mixed Procedure

Least Squares Means					
Effect	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**
Genotype*Dose		WT	6	582.23	30.7599
Genotype*Dose		WT	0	512.70	30.7044

Differences of Least Squares Means											
Effect	**Sex**	**Genotype**	**Dose**	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex	F			M			6.7592	15.3727	173	0.44	0.6607
Genotype		CG			DM		19.3804	21.7225	173	0.89	0.3735
Genotype		CG			RY		12.1176	21.7306	173	0.56	0.5778
Genotype		CG			WT		19.5787	21.7297	173	0.90	0.3688
Genotype		DM			RY		-7.2628	21.7514	174	-0.33	0.7389
Genotype		DM			WT		0.1983	21.7505	174	0.01	0.9927
Genotype		RY			WT		7.4611	21.7586	174	0.34	0.7321
Dose			0.1			1	-36.6274	21.7255	173	-1.69	0.0936
Dose			0.1			6	28.0746	21.7653	174	1.29	0.1988
Dose			0.1			0	12.9100	21.7016	172	0.59	0.5527
Dose			1			6	64.7019	21.7795	174	2.97	0.0034
Dose			1			0	49.5374	21.7157	173	2.28	0.0238
Dose			6			0	-15.1646	21.7556	174	-0.70	0.4867
Genotype*Dose		CG	0.1		CG	1	-10.9099	43.3836	172	-0.25	0.8017
Genotype*Dose		CG	0.1		CG	6	74.8148	43.4229	173	1.72	0.0867
Genotype*Dose		CG	0.1		CG	0	-52.0833	43.3445	171	-1.20	0.2312
Genotype*Dose		CG	0.1		DM	0.1	55.6070	43.3836	172	1.28	0.2017
Genotype*Dose		CG	0.1		DM	1	-75.5697	43.3836	172	-1.74	0.0833
Genotype*Dose		CG	0.1		DM	6	67.0142	43.5506	174	1.54	0.1257
Genotype*Dose		CG	0.1		DM	0	42.2917	43.3445	171	0.98	0.3306
Genotype*Dose		CG	0.1		RY	0.1	-12.2608	43.4229	173	-0.28	0.7780
Genotype*Dose		CG	0.1		RY	1	-29.9071	43.3507	171	-0.69	0.4912
Genotype*Dose		CG	0.1		RY	6	40.5124	43.5702	175	0.93	0.3537
Genotype*Dose		CG	0.1		RY	0	61.9473	43.3836	172	1.43	0.1551
Genotype*Dose		CG	0.1		WT	0.1	15.1948	43.3836	172	0.35	0.7266
Genotype*Dose		CG	0.1		WT	1	28.4183	43.5299	174	0.65	0.5147

Mixed model for AUC total

The Mixed Procedure

								Standard			
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	-11.5021	43.4229	173	-0.26	0.7914
Genotype*Dose		CG	0.1		WT	0	58.0253	43.3836	172	1.34	0.1828
Genotype*Dose		CG	1		CG	6	85.7247	43.4619	173	1.97	0.0502
Genotype*Dose		CG	1		CG	0	-41.1735	43.3836	172	-0.95	0.3439
Genotype*Dose		CG	1		DM	0.1	66.5169	43.4226	173	1.53	0.1274
Genotype*Dose		CG	1		DM	1	-64.6599	43.4226	173	-1.49	0.1383
Genotype*Dose		CG	1		DM	6	77.9241	43.5894	175	1.79	0.0756
Genotype*Dose		CG	1		DM	0	53.2015	43.3836	172	1.23	0.2218
Genotype*Dose		CG	1		RY	0.1	-1.3510	43.4619	173	-0.03	0.9752
Genotype*Dose		CG	1		RY	1	-18.9972	43.3897	172	-0.44	0.6621
Genotype*Dose		CG	1		RY	6	51.4223	43.6091	175	1.18	0.2399
Genotype*Dose		CG	1		RY	0	72.8572	43.4226	173	1.68	0.0952
Genotype*Dose		CG	1		WT	0.1	26.1047	43.4226	173	0.60	0.5485
Genotype*Dose		CG	1		WT	1	39.3281	43.5687	175	0.90	0.3679
Genotype*Dose		CG	1		WT	6	-0.5923	43.4619	173	-0.01	0.9891
Genotype*Dose		CG	1		WT	0	68.9352	43.4226	173	1.59	0.1142
Genotype*Dose		CG	6		CG	0	-126.90	43.4229	173	-2.92	0.0039
Genotype*Dose		CG	6		DM	0.1	-19.2078	43.4619	173	-0.44	0.6591
Genotype*Dose		CG	6		DM	1	-150.38	43.4619	173	-3.46	0.0007
Genotype*Dose		CG	6		DM	6	-7.8006	43.6285	176	-0.18	0.8583
Genotype*Dose		CG	6		DM	0	-32.5232	43.4229	173	-0.75	0.4549
Genotype*Dose		CG	6		RY	0.1	-87.0757	43.5011	174	-2.00	0.0469
Genotype*Dose		CG	6		RY	1	-104.72	43.4290	173	-2.41	0.0169
Genotype*Dose		CG	6		RY	6	-34.3024	43.6481	176	-0.79	0.4330
Genotype*Dose		CG	6		RY	0	-12.8675	43.4619	173	-0.30	0.7675
Genotype*Dose		CG	6		WT	0.1	-59.6200	43.4619	173	-1.37	0.1719
Genotype*Dose		CG	6		WT	1	-46.3966	43.6079	175	-1.06	0.2888
Genotype*Dose		CG	6		WT	6	-86.3170	43.5011	174	-1.98	0.0488
Genotype*Dose		CG	6		WT	0	-16.7895	43.4619	173	-0.39	0.6997
Genotype*Dose		CG	0		DM	0.1	107.69	43.3836	172	2.48	0.0140
Genotype*Dose		CG	0		DM	1	-23.4864	43.3836	172	-0.54	0.5890
Genotype*Dose		CG	0		DM	6	119.10	43.5506	174	2.73	0.0069

Mixed model for AUC total

The Mixed Procedure

							Estimate	Standard Error	DF	t Value	Pr > |t|
Effect	**Sex**	**Genotype**	**Dose**	**Sex**	**Genotype**	**Dose**					
Genotype*Dose		CG	0		DM	0	94.3750	43.3445	171	2.18	0.0308
Genotype*Dose		CG	0		RY	0.1	39.8225	43.4229	173	0.92	0.3604
Genotype*Dose		CG	0		RY	1	22.1763	43.3507	171	0.51	0.6096
Genotype*Dose		CG	0		RY	6	92.5957	43.5702	175	2.13	0.0350
Genotype*Dose		CG	0		RY	0	114.03	43.3836	172	2.63	0.0094
Genotype*Dose		CG	0		WT	0.1	67.2782	43.3836	172	1.55	0.1228
Genotype*Dose		CG	0		WT	1	80.5016	43.5299	174	1.85	0.0661
Genotype*Dose		CG	0		WT	6	40.5812	43.4229	173	0.93	0.3513
Genotype*Dose		CG	0		WT	0	110.11	43.3836	172	2.54	0.0120
Genotype*Dose		DM	0.1		DM	1	-131.18	43.4226	173	-3.02	0.0029
Genotype*Dose		DM	0.1		DM	6	11.4072	43.5895	175	0.26	0.7939
Genotype*Dose		DM	0.1		DM	0	-13.3153	43.3836	172	-0.31	0.7593
Genotype*Dose		DM	0.1		RY	0.1	-67.8678	43.4619	173	-1.56	0.1202
Genotype*Dose		DM	0.1		RY	1	-85.5141	43.3897	172	-1.97	0.0503
Genotype*Dose		DM	0.1		RY	6	-15.0946	43.6090	175	-0.35	0.7297
Genotype*Dose		DM	0.1		RY	0	6.3403	43.4226	173	0.15	0.8841
Genotype*Dose		DM	0.1		WT	0.1	-40.4122	43.4226	173	-0.93	0.3533
Genotype*Dose		DM	0.1		WT	1	-27.1887	43.5688	175	-0.62	0.5334
Genotype*Dose		DM	0.1		WT	6	-67.1091	43.4619	173	-1.54	0.1244
Genotype*Dose		DM	0.1		WT	0	2.4183	43.4226	173	0.06	0.9557
Genotype*Dose		DM	1		DM	6	142.58	43.5895	175	3.27	0.0013
Genotype*Dose		DM	1		DM	0	117.86	43.3836	172	2.72	0.0073
Genotype*Dose		DM	1		RY	0.1	63.3089	43.4619	173	1.46	0.1470
Genotype*Dose		DM	1		RY	1	45.6627	43.3897	172	1.05	0.2941
Genotype*Dose		DM	1		RY	6	116.08	43.6090	175	2.66	0.0085
Genotype*Dose		DM	1		RY	0	137.52	43.4226	173	3.17	0.0018
Genotype*Dose		DM	1		WT	0.1	90.7645	43.4226	173	2.09	0.0381
Genotype*Dose		DM	1		WT	1	103.99	43.5688	175	2.39	0.0181
Genotype*Dose		DM	1		WT	6	64.0676	43.4619	173	1.47	0.1423
Genotype*Dose		DM	1		WT	0	133.60	43.4226	173	3.08	0.0024
Genotype*Dose		DM	6		DM	0	-24.7226	43.5506	174	-0.57	0.5710
Genotype*Dose		DM	6		RY	0.1	-79.2751	43.6285	176	-1.82	0.0709

Mixed model for AUC total

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	-96.9213	43.5567	174	-2.23	0.0274
Genotype*Dose		DM	6		RY	6	-26.5018	43.7752	178	-0.61	0.5457
Genotype*Dose		DM	6		RY	0	-5.0669	43.5894	175	-0.12	0.9076
Genotype*Dose		DM	6		WT	0.1	-51.8194	43.5894	175	-1.19	0.2361
Genotype*Dose		DM	6		WT	1	-38.5960	43.7350	177	-0.88	0.3787
Genotype*Dose		DM	6		WT	6	-78.5164	43.6285	176	-1.80	0.0736
Genotype*Dose		DM	6		WT	0	-8.9889	43.5895	175	-0.21	0.8369
Genotype*Dose		DM	0		RY	0.1	-54.5525	43.4229	173	-1.26	0.2107
Genotype*Dose		DM	0		RY	1	-72.1987	43.3507	171	-1.67	0.0976
Genotype*Dose		DM	0		RY	6	-1.7793	43.5702	175	-0.04	0.9675
Genotype*Dose		DM	0		RY	0	19.6557	43.3836	172	0.45	0.6511
Genotype*Dose		DM	0		WT	0.1	-27.0968	43.3836	172	-0.62	0.5331
Genotype*Dose		DM	0		WT	1	-13.8734	43.5299	174	-0.32	0.7503
Genotype*Dose		DM	0		WT	6	-53.7938	43.4229	173	-1.24	0.2171
Genotype*Dose		DM	0		WT	0	15.7337	43.3836	172	0.36	0.7173
Genotype*Dose		RY	0.1		RY	1	-17.6463	43.4290	173	-0.41	0.6850
Genotype*Dose		RY	0.1		RY	6	52.7732	43.6481	176	1.21	0.2283
Genotype*Dose		RY	0.1		RY	0	74.2081	43.4619	173	1.71	0.0895
Genotype*Dose		RY	0.1		WT	0.1	27.4556	43.4619	173	0.63	0.5284
Genotype*Dose		RY	0.1		WT	1	40.6791	43.6079	175	0.93	0.3522
Genotype*Dose		RY	0.1		WT	6	0.7587	43.5011	174	0.02	0.9861
Genotype*Dose		RY	0.1		WT	0	70.2862	43.4619	173	1.62	0.1077
Genotype*Dose		RY	1		RY	6	70.4195	43.5763	175	1.62	0.1079
Genotype*Dose		RY	1		RY	0	91.8544	43.3897	172	2.12	0.0357
Genotype*Dose		RY	1		WT	0.1	45.1019	43.3897	172	1.04	0.3001
Genotype*Dose		RY	1		WT	1	58.3253	43.5360	174	1.34	0.1821
Genotype*Dose		RY	1		WT	6	18.4050	43.4290	173	0.42	0.6722
Genotype*Dose		RY	1		WT	0	87.9324	43.3897	172	2.03	0.0443
Genotype*Dose		RY	6		RY	0	21.4349	43.6091	175	0.49	0.6237
Genotype*Dose		RY	6		WT	0.1	-25.3176	43.6091	175	-0.58	0.5623
Genotype*Dose		RY	6		WT	1	-12.0942	43.7548	177	-0.28	0.7826
Genotype*Dose		RY	6		WT	6	-52.0145	43.6481	176	-1.19	0.2350

Mixed model for AUC total

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	17.5129	43.6090	175	0.40	0.6885
Genotype*Dose		RY	0		WT	0.1	-46.7525	43.4226	173	-1.08	0.2831
Genotype*Dose		RY	0		WT	1	-33.5291	43.5687	175	-0.77	0.4426
Genotype*Dose		RY	0		WT	6	-73.4494	43.4619	173	-1.69	0.0928
Genotype*Dose		RY	0		WT	0	-3.9220	43.4226	173	-0.09	0.9281
Genotype*Dose		WT	0.1		WT	1	13.2234	43.5687	175	0.30	0.7619
Genotype*Dose		WT	0.1		WT	6	-26.6969	43.4619	173	-0.61	0.5398
Genotype*Dose		WT	0.1		WT	0	42.8305	43.4226	173	0.99	0.3253
Genotype*Dose		WT	1		WT	6	-39.9204	43.6079	175	-0.92	0.3612
Genotype*Dose		WT	1		WT	0	29.6071	43.5688	175	0.68	0.4977
Genotype*Dose		WT	6		WT	0	69.5275	43.4619	173	1.60	0.1115

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				401.55	19.6077	173	20.48	<.0001	0.05	362.84	440.25
Sex	F			7.7445	9.5202	173	0.81	0.4171	0.05	-11.0458	26.5348
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		66.6649	26.8726	172	2.48	0.0141	0.05	13.6229	119.71
Genotype		DM		11.7691	26.8726	172	0.44	0.6620	0.05	-41.2730	64.8112
Genotype		RY		1.3770	26.8944	173	0.05	0.9592	0.05	-51.7070	54.4610
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	19.8136	26.8944	173	0.74	0.4623	0.05	-33.2704	72.8976
Dose			1	20.8590	26.9771	175	0.77	0.4404	0.05	-32.3843	74.1023
Dose			6	47.1932	26.9164	173	1.75	0.0813	0.05	-5.9330	100.32
Dose			0	0	.	.	.	.	.	.	.
Genotype*Dose		CG	0.1	-53.7719	38.0036	172	-1.41	0.1589	0.05	-128.78	21.2409
Genotype*Dose		CG	1	-40.7720	38.0775	173	-1.07	0.2858	0.05	-115.93	34.3832
Genotype*Dose		CG	6	-126.04	38.0501	173	-3.31	0.0011	0.05	-201.14	-50.9404
Genotype*Dose		CG	0	0	.	.	.	.	.	.	.
Genotype*Dose		DM	0.1	-28.8586	38.0190	172	-0.76	0.4489	0.05	-103.90	46.1840
Genotype*Dose		DM	1	41.2080	38.0776	173	1.08	0.2807	0.05	-33.9473	116.36
Genotype*Dose		DM	6	-72.2678	38.1007	174	-1.90	0.0595	0.05	-147.47	2.9316
Genotype*Dose		DM	0	0	.	.	.	.	.	.	.
Genotype*Dose		RY	0.1	18.8473	38.0500	173	0.50	0.6210	0.05	-56.2546	93.9493
Genotype*Dose		RY	1	37.1755	38.0801	173	0.98	0.3303	0.05	-37.9847	112.34
Genotype*Dose		RY	6	-35.1399	38.1244	174	-0.92	0.3580	0.05	-110.39	40.1053
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 AUC proximal

The Mixed Procedure

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	173	0.66	0.4171
Genotype	3	173	0.48	0.6951
Dose	3	173	3.39	0.0193
Genotype*Dose	9	173	2.21	0.0234

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			434.98	6.7318
Sex	M			427.24	6.7318
Genotype		CG		438.90	9.5048
Genotype		DM		424.17	9.5213
Genotype		RY		433.98	9.5279
Genotype		WT		427.38	9.5271
Dose			0.1	429.24	9.5086
Dose			1	455.63	9.5200
Dose			6	414.20	9.5515
Dose			0	425.37	9.5009
Genotype*Dose		CG	0.1	438.13	18.9863
Genotype*Dose		CG	1	452.17	19.0172
Genotype*Dose		CG	6	393.23	19.0483
Genotype*Dose		CG	0	472.08	18.9863
Genotype*Dose		DM	0.1	408.14	19.0172
Genotype*Dose		DM	1	479.25	19.0172
Genotype*Dose		DM	6	392.11	19.1492
Genotype*Dose		DM	0	417.19	18.9863
Genotype*Dose		RY	0.1	445.46	19.0483
Genotype*Dose		RY	1	464.83	18.9914
Genotype*Dose		RY	6	418.85	19.1657
Genotype*Dose		RY	0	406.80	19.0172
Genotype*Dose		WT	0.1	425.23	19.0172
Genotype*Dose		WT	1	426.28	19.1340

Mixed model for AUC proximal

The Mixed Procedure

Least Squares Means					
Effect	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**
Genotype*Dose		WT	6	452.61	19.0483
Genotype*Dose		WT	0	405.42	19.0172

Differences of Least Squares Means											
Effect	**Sex**	**Genotype**	**Dose**	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex	F			M			7.7445	9.5202	173	0.81	0.4171
Genotype		CG			DM		14.7288	13.4535	173	1.09	0.2751
Genotype		CG			RY		4.9206	13.4581	173	0.37	0.7151
Genotype		CG			WT		11.5183	13.4576	173	0.86	0.3932
Genotype		DM			RY		-9.8082	13.4698	174	-0.73	0.4675
Genotype		DM			WT		-3.2105	13.4693	174	-0.24	0.8119
Genotype		RY			WT		6.5978	13.4739	174	0.49	0.6250
Dose			0.1			1	-26.3940	13.4553	173	-1.96	0.0514
Dose			0.1			6	15.0372	13.4776	174	1.12	0.2661
Dose			0.1			0	3.8678	13.4418	172	0.29	0.7739
Dose			1			6	41.4312	13.4856	175	3.07	0.0025
Dose			1			0	30.2619	13.4498	173	2.25	0.0257
Dose			6			0	-11.1694	13.4721	174	-0.83	0.4082
Genotype*Dose		CG	0.1		CG	1	-14.0453	26.8726	172	-0.52	0.6019
Genotype*Dose		CG	0.1		CG	6	44.8911	26.8945	173	1.67	0.0969
Genotype*Dose		CG	0.1		CG	0	-33.9583	26.8507	172	-1.26	0.2077
Genotype*Dose		CG	0.1		DM	0.1	29.9825	26.8726	172	1.12	0.2661
Genotype*Dose		CG	0.1		DM	1	-41.1295	26.8726	172	-1.53	0.1277
Genotype*Dose		CG	0.1		DM	6	46.0121	26.9661	174	1.71	0.0897
Genotype*Dose		CG	0.1		DM	0	20.9375	26.8507	172	0.78	0.4366
Genotype*Dose		CG	0.1		RY	0.1	-7.3313	26.8945	173	-0.27	0.7855
Genotype*Dose		CG	0.1		RY	1	-26.7049	26.8543	172	-0.99	0.3214
Genotype*Dose		CG	0.1		RY	6	19.2763	26.9778	175	0.71	0.4759
Genotype*Dose		CG	0.1		RY	0	31.3296	26.8726	172	1.17	0.2453
Genotype*Dose		CG	0.1		WT	0.1	12.8930	26.8726	172	0.48	0.6320
Genotype*Dose		CG	0.1		WT	1	11.8476	26.9553	174	0.44	0.6608

Mixed model for AUC proximal

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	-14.4866	26.8945	173	-0.54	0.5908
Genotype*Dose		CG	0.1		WT	0	32.7066	26.8726	172	1.22	0.2252
Genotype*Dose		CG	1		CG	6	58.9364	26.9164	173	2.19	0.0299
Genotype*Dose		CG	1		CG	0	-19.9130	26.8726	172	-0.74	0.4597
Genotype*Dose		CG	1		DM	0.1	44.0278	26.8944	173	1.64	0.1034
Genotype*Dose		CG	1		DM	1	-27.0842	26.8944	173	-1.01	0.3153
Genotype*Dose		CG	1		DM	6	60.0574	26.9879	175	2.23	0.0273
Genotype*Dose		CG	1		DM	0	34.9828	26.8726	172	1.30	0.1947
Genotype*Dose		CG	1		RY	0.1	6.7140	26.9164	173	0.25	0.8033
Genotype*Dose		CG	1		RY	1	-12.6596	26.8761	172	-0.47	0.6382
Genotype*Dose		CG	1		RY	6	33.3216	26.9996	175	1.23	0.2188
Genotype*Dose		CG	1		RY	0	45.3749	26.8944	173	1.69	0.0934
Genotype*Dose		CG	1		WT	0.1	26.9383	26.8944	173	1.00	0.3179
Genotype*Dose		CG	1		WT	1	25.8929	26.9771	175	0.96	0.3385
Genotype*Dose		CG	1		WT	6	-0.4413	26.9164	173	-0.02	0.9869
Genotype*Dose		CG	1		WT	0	46.7519	26.8944	173	1.74	0.0839
Genotype*Dose		CG	6		CG	0	-78.8494	26.8945	173	-2.93	0.0038
Genotype*Dose		CG	6		DM	0.1	-14.9086	26.9164	173	-0.55	0.5804
Genotype*Dose		CG	6		DM	1	-86.0206	26.9164	173	-3.20	0.0017
Genotype*Dose		CG	6		DM	6	1.1210	27.0098	176	0.04	0.9669
Genotype*Dose		CG	6		DM	0	-23.9536	26.8945	173	-0.89	0.3744
Genotype*Dose		CG	6		RY	0.1	-52.2224	26.9383	174	-1.94	0.0542
Genotype*Dose		CG	6		RY	1	-71.5959	26.8981	173	-2.66	0.0085
Genotype*Dose		CG	6		RY	6	-25.6148	27.0215	176	-0.95	0.3445
Genotype*Dose		CG	6		RY	0	-13.5615	26.9164	173	-0.50	0.6150
Genotype*Dose		CG	6		WT	0.1	-31.9981	26.9164	173	-1.19	0.2361
Genotype*Dose		CG	6		WT	1	-33.0435	26.9990	175	-1.22	0.2226
Genotype*Dose		CG	6		WT	6	-59.3776	26.9383	174	-2.20	0.0288
Genotype*Dose		CG	6		WT	0	-12.1845	26.9164	173	-0.45	0.6513
Genotype*Dose		CG	0		DM	0.1	63.9408	26.8726	172	2.38	0.0184
Genotype*Dose		CG	0		DM	1	-7.1712	26.8726	172	-0.27	0.7899
Genotype*Dose		CG	0		DM	6	79.9704	26.9661	174	2.97	0.0034

Mixed model for AUC proximal

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	54.8958	26.8507	172	2.04	0.0424
Genotype*Dose		CG	0		RY	0.1	26.6270	26.8945	173	0.99	0.3235
Genotype*Dose		CG	0		RY	1	7.2535	26.8543	172	0.27	0.7874
Genotype*Dose		CG	0		RY	6	53.2346	26.9778	175	1.97	0.0500
Genotype*Dose		CG	0		RY	0	65.2879	26.8726	172	2.43	0.0161
Genotype*Dose		CG	0		WT	0.1	46.8513	26.8726	172	1.74	0.0830
Genotype*Dose		CG	0		WT	1	45.8059	26.9553	174	1.70	0.0910
Genotype*Dose		CG	0		WT	6	19.4718	26.8945	173	0.72	0.4700
Genotype*Dose		CG	0		WT	0	66.6649	26.8726	172	2.48	0.0141
Genotype*Dose		DM	0.1		DM	1	-71.1120	26.8944	173	-2.64	0.0089
Genotype*Dose		DM	0.1		DM	6	16.0296	26.9879	175	0.59	0.5533
Genotype*Dose		DM	0.1		DM	0	-9.0450	26.8726	172	-0.34	0.7368
Genotype*Dose		DM	0.1		RY	0.1	-37.3138	26.9164	173	-1.39	0.1674
Genotype*Dose		DM	0.1		RY	1	-56.6873	26.8761	172	-2.11	0.0364
Genotype*Dose		DM	0.1		RY	6	-10.7062	26.9995	175	-0.40	0.6922
Genotype*Dose		DM	0.1		RY	0	1.3471	26.8944	173	0.05	0.9601
Genotype*Dose		DM	0.1		WT	0.1	-17.0895	26.8944	173	-0.64	0.5260
Genotype*Dose		DM	0.1		WT	1	-18.1349	26.9771	175	-0.67	0.5023
Genotype*Dose		DM	0.1		WT	6	-44.4690	26.9164	173	-1.65	0.1003
Genotype*Dose		DM	0.1		WT	0	2.7241	26.8944	173	0.10	0.9194
Genotype*Dose		DM	1		DM	6	87.1416	26.9879	175	3.23	0.0015
Genotype*Dose		DM	1		DM	0	62.0670	26.8726	172	2.31	0.0221
Genotype*Dose		DM	1		RY	0.1	33.7981	26.9164	173	1.26	0.2109
Genotype*Dose		DM	1		RY	1	14.4246	26.8761	172	0.54	0.5922
Genotype*Dose		DM	1		RY	6	60.4058	26.9995	175	2.24	0.0265
Genotype*Dose		DM	1		RY	0	72.4591	26.8944	173	2.69	0.0078
Genotype*Dose		DM	1		WT	0.1	54.0225	26.8944	173	2.01	0.0461
Genotype*Dose		DM	1		WT	1	52.9771	26.9771	175	1.96	0.0511
Genotype*Dose		DM	1		WT	6	26.6429	26.9164	173	0.99	0.3236
Genotype*Dose		DM	1		WT	0	73.8361	26.8944	173	2.75	0.0067
Genotype*Dose		DM	6		DM	0	-25.0746	26.9661	174	-0.93	0.3537
Genotype*Dose		DM	6		RY	0.1	-53.3435	27.0098	176	-1.97	0.0498

Mixed model for AUC proximal

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	-72.7170	26.9697	175	-2.70	0.0077
Genotype*Dose		DM	6		RY	6	-26.7358	27.0928	177	-0.99	0.3251
Genotype*Dose		DM	6		RY	0	-14.6825	26.9879	175	-0.54	0.5871
Genotype*Dose		DM	6		WT	0.1	-33.1191	26.9879	175	-1.23	0.2214
Genotype*Dose		DM	6		WT	1	-34.1645	27.0703	177	-1.26	0.2086
Genotype*Dose		DM	6		WT	6	-60.4987	27.0098	176	-2.24	0.0264
Genotype*Dose		DM	6		WT	0	-13.3055	26.9879	175	-0.49	0.6226
Genotype*Dose		DM	0		RY	0.1	-28.2688	26.8945	173	-1.05	0.2947
Genotype*Dose		DM	0		RY	1	-47.6424	26.8543	172	-1.77	0.0778
Genotype*Dose		DM	0		RY	6	-1.6612	26.9778	175	-0.06	0.9510
Genotype*Dose		DM	0		RY	0	10.3921	26.8726	172	0.39	0.6994
Genotype*Dose		DM	0		WT	0.1	-8.0445	26.8726	172	-0.30	0.7650
Genotype*Dose		DM	0		WT	1	-9.0899	26.9553	174	-0.34	0.7364
Genotype*Dose		DM	0		WT	6	-35.4241	26.8945	173	-1.32	0.1895
Genotype*Dose		DM	0		WT	0	11.7691	26.8726	172	0.44	0.6620
Genotype*Dose		RY	0.1		RY	1	-19.3735	26.8981	173	-0.72	0.4723
Genotype*Dose		RY	0.1		RY	6	26.6076	27.0215	176	0.98	0.3261
Genotype*Dose		RY	0.1		RY	0	38.6609	26.9164	173	1.44	0.1527
Genotype*Dose		RY	0.1		WT	0.1	20.2243	26.9164	173	0.75	0.4534
Genotype*Dose		RY	0.1		WT	1	19.1789	26.9990	175	0.71	0.4784
Genotype*Dose		RY	0.1		WT	6	-7.1552	26.9383	174	-0.27	0.7909
Genotype*Dose		RY	0.1		WT	0	40.0379	26.9164	173	1.49	0.1387
Genotype*Dose		RY	1		RY	6	45.9812	26.9814	175	1.70	0.0901
Genotype*Dose		RY	1		RY	0	58.0345	26.8761	172	2.16	0.0322
Genotype*Dose		RY	1		WT	0.1	39.5979	26.8761	172	1.47	0.1425
Genotype*Dose		RY	1		WT	1	38.5525	26.9589	174	1.43	0.1545
Genotype*Dose		RY	1		WT	6	12.2183	26.8981	173	0.45	0.6502
Genotype*Dose		RY	1		WT	0	59.4115	26.8761	172	2.21	0.0284
Genotype*Dose		RY	6		RY	0	12.0533	26.9996	175	0.45	0.6558
Genotype*Dose		RY	6		WT	0.1	-6.3833	26.9996	175	-0.24	0.8134
Genotype*Dose		RY	6		WT	1	-7.4287	27.0820	177	-0.27	0.7842
Genotype*Dose		RY	6		WT	6	-33.7628	27.0215	176	-1.25	0.2132

Mixed model for AUC proximal

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	13.4303	26.9995	175	0.50	0.6195
Genotype*Dose		RY	0		WT	0.1	-18.4366	26.8944	173	-0.69	0.4939
Genotype*Dose		RY	0		WT	1	-19.4820	26.9771	175	-0.72	0.4712
Genotype*Dose		RY	0		WT	6	-45.8161	26.9164	173	-1.70	0.0905
Genotype*Dose		RY	0		WT	0	1.3770	26.8944	173	0.05	0.9592
Genotype*Dose		WT	0.1		WT	1	-1.0454	26.9771	175	-0.04	0.9691
Genotype*Dose		WT	0.1		WT	6	-27.3796	26.9164	173	-1.02	0.3105
Genotype*Dose		WT	0.1		WT	0	19.8136	26.8944	173	0.74	0.4623
Genotype*Dose		WT	1		WT	6	-26.3342	26.9990	175	-0.98	0.3307
Genotype*Dose		WT	1		WT	0	20.8590	26.9771	175	0.77	0.4404
Genotype*Dose		WT	6		WT	0	47.1932	26.9164	173	1.75	0.0813

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				1.6447	0.06079	171	27.05	<.0001	0.05	1.5247	1.7647
Sex	F			0.02811	0.02953	171	0.95	0.3425	0.05	-0.03018	0.08640
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		0.1772	0.08327	169	2.13	0.0348	0.05	0.01282	0.3416
Genotype		DM		0.01628	0.08327	169	0.20	0.8452	0.05	-0.1481	0.1807
Genotype		RY		-0.00320	0.08337	170	-0.04	0.9694	0.05	-0.1678	0.1614
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	0.1052	0.08337	170	1.26	0.2089	0.05	-0.05940	0.2698
Dose			1	-0.00309	0.08376	173	-0.04	0.9706	0.05	-0.1684	0.1622
Dose			6	0.1088	0.08348	171	1.30	0.1942	0.05	-0.05597	0.2736
Dose			0	0	.	.	.	.	.	.	.
Genotype*Dose		CG	0.1	-0.1809	0.1178	169	-1.54	0.1264	0.05	-0.4133	0.05159
Genotype*Dose		CG	1	-0.05611	0.1181	171	-0.48	0.6353	0.05	-0.2892	0.1770
Genotype*Dose		CG	6	-0.2947	0.1180	171	-2.50	0.0135	0.05	-0.5276	-0.06177
Genotype*Dose		CG	0	0	.	.	.	.	.	.	.
Genotype*Dose		DM	0.1	-0.1123	0.1178	170	-0.95	0.3421	0.05	-0.3449	0.1203
Genotype*Dose		DM	1	0.1924	0.1181	171	1.63	0.1052	0.05	-0.04076	0.4255
Genotype*Dose		DM	6	-0.1129	0.1182	172	-0.96	0.3409	0.05	-0.3463	0.1205
Genotype*Dose		DM	0	0	.	.	.	.	.	.	.
Genotype*Dose		RY	0.1	0.04504	0.1180	171	0.38	0.7031	0.05	-0.1879	0.2779
Genotype*Dose		RY	1	0.1175	0.1181	171	1.00	0.3211	0.05	-0.1156	0.3507
Genotype*Dose		RY	6	-0.06624	0.1183	172	-0.56	0.5764	0.05	-0.2998	0.1673
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 AUC distal

The Mixed Procedure

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	171	0.91	0.3425
Genotype	3	171	0.43	0.7321
Dose	3	171	1.30	0.2777
Genotype*Dose	9	171	1.85	0.0623

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			1.7438	0.02088
Sex	M			1.7157	0.02088
Genotype		CG		1.7558	0.02946
Genotype		DM		1.7196	0.02954
Genotype		RY		1.7324	0.02957
Genotype		WT		1.7115	0.02956
Genotype*Dose		CG	0.1	1.7603	0.05880
Genotype*Dose		CG	1	1.7767	0.05895
Genotype*Dose		CG	6	1.6501	0.05911
Genotype*Dose		CG	0	1.8359	0.05880
Genotype*Dose		DM	0.1	1.6679	0.05895
Genotype*Dose		DM	1	1.8643	0.05895
Genotype*Dose		DM	6	1.6709	0.05960
Genotype*Dose		DM	0	1.6750	0.05880
Genotype*Dose		RY	0.1	1.8058	0.05911
Genotype*Dose		RY	1	1.7700	0.05882
Genotype*Dose		RY	6	1.6981	0.05966
Genotype*Dose		RY	0	1.6556	0.05895
Genotype*Dose		WT	0.1	1.7639	0.05895
Genotype*Dose		WT	1	1.6557	0.05950
Genotype*Dose		WT	6	1.7676	0.05911
Genotype*Dose		WT	0	1.6587	0.05895

Mixed model for AUC distal

The Mixed Procedure

Differences of Least Squares Means											
Effect	**Sex**	**Genotype**	**Dose**	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex	F			M			0.02811	0.02953	171	0.95	0.3425
Genotype		CG			DM		0.03620	0.04172	171	0.87	0.3867
Genotype		CG			RY		0.02340	0.04174	171	0.56	0.5758
Genotype		CG			WT		0.04428	0.04174	171	1.06	0.2902
Genotype		DM			RY		-0.01281	0.04180	172	-0.31	0.7597
Genotype		DM			WT		0.008078	0.04179	172	0.19	0.8470
Genotype		RY			WT		0.02088	0.04181	172	0.50	0.6181
Genotype*Dose		CG	0.1		CG	1	-0.01648	0.08327	169	-0.20	0.8433
Genotype*Dose		CG	0.1		CG	6	0.1102	0.08337	170	1.32	0.1882
Genotype*Dose		CG	0.1		CG	0	-0.07569	0.08316	169	-0.91	0.3640
Genotype*Dose		CG	0.1		DM	0.1	0.09231	0.08327	169	1.11	0.2692
Genotype*Dose		CG	0.1		DM	1	-0.1041	0.08327	169	-1.25	0.2132
Genotype*Dose		CG	0.1		DM	6	0.08933	0.08373	173	1.07	0.2875
Genotype*Dose		CG	0.1		DM	0	0.08522	0.08316	169	1.02	0.3069
Genotype*Dose		CG	0.1		RY	0.1	-0.04551	0.08337	170	-0.55	0.5859
Genotype*Dose		CG	0.1		RY	1	-0.00973	0.08317	169	-0.12	0.9070
Genotype*Dose		CG	0.1		RY	6	0.06213	0.08377	173	0.74	0.4593
Genotype*Dose		CG	0.1		RY	0	0.1047	0.08327	169	1.26	0.2103
Genotype*Dose		CG	0.1		WT	0.1	-0.00367	0.08327	169	-0.04	0.9649
Genotype*Dose		CG	0.1		WT	1	0.1046	0.08365	172	1.25	0.2129
Genotype*Dose		CG	0.1		WT	6	-0.00731	0.08337	170	-0.09	0.9303
Genotype*Dose		CG	0.1		WT	0	0.1015	0.08327	169	1.22	0.2245
Genotype*Dose		CG	1		CG	6	0.1267	0.08348	171	1.52	0.1311
Genotype*Dose		CG	1		CG	0	-0.05920	0.08327	169	-0.71	0.4781
Genotype*Dose		CG	1		DM	0.1	0.1088	0.08337	170	1.30	0.1937
Genotype*Dose		CG	1		DM	1	-0.08757	0.08337	170	-1.05	0.2951
Genotype*Dose		CG	1		DM	6	0.1058	0.08383	174	1.26	0.2086
Genotype*Dose		CG	1		DM	0	0.1017	0.08327	169	1.22	0.2236
Genotype*Dose		CG	1		RY	0.1	-0.02903	0.08348	171	-0.35	0.7285
Genotype*Dose		CG	1		RY	1	0.006750	0.08328	169	0.08	0.9355
Genotype*Dose		CG	1		RY	6	0.07862	0.08387	174	0.94	0.3499
Genotype*Dose		CG	1		RY	0	0.1212	0.08337	170	1.45	0.1479

Mixed model for AUC distal

The Mixed Procedure

Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Genotype*Dose		CG	1		WT	0.1	0.01281	0.08337	170	0.15	0.8780
Genotype*Dose		CG	1		WT	1	0.1211	0.08376	173	1.45	0.1501
Genotype*Dose		CG	1		WT	6	0.009176	0.08348	171	0.11	0.9126
Genotype*Dose		CG	1		WT	0	0.1180	0.08337	170	1.42	0.1588
Genotype*Dose		CG	6		CG	0	-0.1859	0.08337	170	-2.23	0.0271
Genotype*Dose		CG	6		DM	0.1	-0.01786	0.08348	171	-0.21	0.8309
Genotype*Dose		CG	6		DM	1	-0.2142	0.08348	171	-2.57	0.0111
Genotype*Dose		CG	6		DM	6	-0.02084	0.08394	175	-0.25	0.8043
Genotype*Dose		CG	6		DM	0	-0.02494	0.08337	170	-0.30	0.7652
Genotype*Dose		CG	6		RY	0.1	-0.1557	0.08359	172	-1.86	0.0643
Genotype*Dose		CG	6		RY	1	-0.1199	0.08339	170	-1.44	0.1523
Genotype*Dose		CG	6		RY	6	-0.04803	0.08398	175	-0.57	0.5681
Genotype*Dose		CG	6		RY	0	-0.00546	0.08348	171	-0.07	0.9479
Genotype*Dose		CG	6		WT	0.1	-0.1138	0.08348	171	-1.36	0.1745
Genotype*Dose		CG	6		WT	1	-0.00557	0.08387	174	-0.07	0.9471
Genotype*Dose		CG	6		WT	6	-0.1175	0.08359	172	-1.41	0.1617
Genotype*Dose		CG	6		WT	0	-0.00866	0.08348	171	-0.10	0.9175
Genotype*Dose		CG	0		DM	0.1	0.1680	0.08327	169	2.02	0.0452
Genotype*Dose		CG	0		DM	1	-0.02837	0.08327	169	-0.34	0.7338
Genotype*Dose		CG	0		DM	6	0.1650	0.08373	173	1.97	0.0503
Genotype*Dose		CG	0		DM	0	0.1609	0.08316	169	1.94	0.0547
Genotype*Dose		CG	0		RY	0.1	0.03017	0.08337	170	0.36	0.7179
Genotype*Dose		CG	0		RY	1	0.06595	0.08317	169	0.79	0.4289
Genotype*Dose		CG	0		RY	6	0.1378	0.08377	173	1.65	0.1017
Genotype*Dose		CG	0		RY	0	0.1804	0.08327	169	2.17	0.0317
Genotype*Dose		CG	0		WT	0.1	0.07202	0.08327	169	0.86	0.3883
Genotype*Dose		CG	0		WT	1	0.1803	0.08365	172	2.16	0.0325
Genotype*Dose		CG	0		WT	6	0.06838	0.08337	170	0.82	0.4133
Genotype*Dose		CG	0		WT	0	0.1772	0.08327	169	2.13	0.0348
Genotype*Dose		DM	0.1		DM	1	-0.1964	0.08337	170	-2.36	0.0197
Genotype*Dose		DM	0.1		DM	6	-0.00298	0.08383	174	-0.04	0.9717
Genotype*Dose		DM	0.1		DM	0	-0.00709	0.08327	169	-0.09	0.9323

Mixed model for AUC distal

The Mixed Procedure

Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Differences of Least Squares Means											
Genotype*Dose		DM	0.1		RY	0.1	-0.1378	0.08348	171	-1.65	0.1006
Genotype*Dose		DM	0.1		RY	1	-0.1020	0.08328	169	-1.23	0.2221
Genotype*Dose		DM	0.1		RY	6	-0.03018	0.08387	174	-0.36	0.7194
Genotype*Dose		DM	0.1		RY	0	0.01239	0.08337	170	0.15	0.8820
Genotype*Dose		DM	0.1		WT	0.1	-0.09598	0.08337	170	-1.15	0.2513
Genotype*Dose		DM	0.1		WT	1	0.01229	0.08376	173	0.15	0.8835
Genotype*Dose		DM	0.1		WT	6	-0.09962	0.08348	171	-1.19	0.2344
Genotype*Dose		DM	0.1		WT	0	0.009195	0.08337	170	0.11	0.9123
Genotype*Dose		DM	1		DM	6	0.1934	0.08383	174	2.31	0.0222
Genotype*Dose		DM	1		DM	0	0.1893	0.08327	169	2.27	0.0243
Genotype*Dose		DM	1		RY	0.1	0.05854	0.08348	171	0.70	0.4841
Genotype*Dose		DM	1		RY	1	0.09432	0.08328	169	1.13	0.2590
Genotype*Dose		DM	1		RY	6	0.1662	0.08387	174	1.98	0.0491
Genotype*Dose		DM	1		RY	0	0.2088	0.08337	170	2.50	0.0132
Genotype*Dose		DM	1		WT	0.1	0.1004	0.08337	170	1.20	0.2303
Genotype*Dose		DM	1		WT	1	0.2087	0.08376	173	2.49	0.0137
Genotype*Dose		DM	1		WT	6	0.09674	0.08348	171	1.16	0.2481
Genotype*Dose		DM	1		WT	0	0.2056	0.08337	170	2.47	0.0147
Genotype*Dose		DM	6		DM	0	-0.00411	0.08373	173	-0.05	0.9609
Genotype*Dose		DM	6		RY	0.1	-0.1348	0.08394	175	-1.61	0.1100
Genotype*Dose		DM	6		RY	1	-0.09907	0.08374	173	-1.18	0.2384
Genotype*Dose		DM	6		RY	6	-0.02720	0.08433	177	-0.32	0.7474
Genotype*Dose		DM	6		RY	0	0.01537	0.08383	174	0.18	0.8547
Genotype*Dose		DM	6		WT	0.1	-0.09300	0.08383	174	-1.11	0.2688
Genotype*Dose		DM	6		WT	1	0.01527	0.08422	176	0.18	0.8564
Genotype*Dose		DM	6		WT	6	-0.09664	0.08394	175	-1.15	0.2512
Genotype*Dose		DM	6		WT	0	0.01217	0.08383	174	0.15	0.8847
Genotype*Dose		DM	0		RY	0.1	-0.1307	0.08337	170	-1.57	0.1187
Genotype*Dose		DM	0		RY	1	-0.09496	0.08317	169	-1.14	0.2552
Genotype*Dose		DM	0		RY	6	-0.02309	0.08377	173	-0.28	0.7831
Genotype*Dose		DM	0		RY	0	0.01948	0.08327	169	0.23	0.8153
Genotype*Dose		DM	0		WT	0.1	-0.08889	0.08327	169	-1.07	0.2872

Mixed model for AUC distal

The Mixed Procedure

Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Differences of Least Squares Means											
Genotype*Dose		DM	0		WT	1	0.01937	0.08365	172	0.23	0.8171
Genotype*Dose		DM	0		WT	6	-0.09253	0.08337	170	-1.11	0.2686
Genotype*Dose		DM	0		WT	0	0.01628	0.08327	169	0.20	0.8452
Genotype*Dose		RY	0.1		RY	1	0.03578	0.08339	170	0.43	0.6684
Genotype*Dose		RY	0.1		RY	6	0.1076	0.08398	175	1.28	0.2016
Genotype*Dose		RY	0.1		RY	0	0.1502	0.08348	171	1.80	0.0737
Genotype*Dose		RY	0.1		WT	0.1	0.04184	0.08348	171	0.50	0.6169
Genotype*Dose		RY	0.1		WT	1	0.1501	0.08387	174	1.79	0.0752
Genotype*Dose		RY	0.1		WT	6	0.03820	0.08359	172	0.46	0.6482
Genotype*Dose		RY	0.1		WT	0	0.1470	0.08348	171	1.76	0.0800
Genotype*Dose		RY	1		RY	6	0.07187	0.08378	173	0.86	0.3922
Genotype*Dose		RY	1		RY	0	0.1144	0.08328	169	1.37	0.1712
Genotype*Dose		RY	1		WT	0.1	0.006065	0.08328	169	0.07	0.9420
Genotype*Dose		RY	1		WT	1	0.1143	0.08367	172	1.37	0.1736
Genotype*Dose		RY	1		WT	6	0.002426	0.08339	170	0.03	0.9768
Genotype*Dose		RY	1		WT	0	0.1112	0.08328	169	1.34	0.1834
Genotype*Dose		RY	6		RY	0	0.04257	0.08387	174	0.51	0.6124
Genotype*Dose		RY	6		WT	0.1	-0.06580	0.08387	174	-0.78	0.4338
Genotype*Dose		RY	6		WT	1	0.04247	0.08426	176	0.50	0.6149
Genotype*Dose		RY	6		WT	6	-0.06944	0.08398	175	-0.83	0.4094
Genotype*Dose		RY	6		WT	0	0.03937	0.08387	174	0.47	0.6394
Genotype*Dose		RY	0		WT	0.1	-0.1084	0.08337	170	-1.30	0.1954
Genotype*Dose		RY	0		WT	1	-0.00010	0.08376	173	-0.00	0.9990
Genotype*Dose		RY	0		WT	6	-0.1120	0.08348	171	-1.34	0.1815
Genotype*Dose		RY	0		WT	0	-0.00320	0.08337	170	-0.04	0.9694
Genotype*Dose		WT	0.1		WT	1	0.1083	0.08376	173	1.29	0.1979
Genotype*Dose		WT	0.1		WT	6	-0.00364	0.08348	171	-0.04	0.9653
Genotype*Dose		WT	0.1		WT	0	0.1052	0.08337	170	1.26	0.2089
Genotype*Dose		WT	1		WT	6	-0.1119	0.08387	174	-1.33	0.1838
Genotype*Dose		WT	1		WT	0	-0.00309	0.08376	173	-0.04	0.9706
Genotype*Dose		WT	6		WT	0	0.1088	0.08348	171	1.30	0.1942

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				6.0913	0.1252	181	48.65	<.0001	0.05	5.8443	6.3384
Sex	F			0.03278	0.08868	182	0.37	0.7121	0.05	-0.1422	0.2077
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		-0.03414	0.1253	182	-0.27	0.7856	0.05	-0.2814	0.2131
Genotype		DM		0.002304	0.1255	183	0.02	0.9854	0.05	-0.2453	0.2499
Genotype		RY		0.03738	0.1256	183	0.30	0.7663	0.05	-0.2104	0.2852
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	0.1224	0.1250	181	0.98	0.3289	0.05	-0.1243	0.3691
Dose			1	0.3725	0.1251	181	2.98	0.0033	0.05	0.1256	0.6195
Dose			6	0.01821	0.1256	183	0.15	0.8848	0.05	-0.2295	0.2660
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Sex	1	182	0.14	0.7121
Genotype	3	182	0.11	0.9549
Dose	3	182	3.74	0.0122

Least Squares Means					
Effect	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**
Sex	F			6.2538	0.06270
Sex	M			6.2210	0.06271
Genotype		CG		6.2019	0.08840
Genotype		DM		6.2383	0.08871
Genotype		RY		6.2734	0.08881
Genotype		WT		6.2360	0.08880
Dose			0.1	6.2315	0.08848
Dose			1	6.4816	0.08866

Mixed Effects Model for Total Dendrites

The Mixed Procedure

Least Squares Means					
Effect	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**
Dose			6	6.1273	0.08925
Dose			0	6.1091	0.08833

Differences of Least Squares Means										
Effect	**Sex**	**Genotype**	**Dose**	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex	F			M			0.03278	0.08868	182	0.37	0.7121
Genotype		CG			DM		-0.03645	0.1252	182	-0.29	0.7714
Genotype		CG			RY		-0.07152	0.1253	182	-0.57	0.5688
Genotype		CG			WT		-0.03414	0.1253	182	-0.27	0.7856
Genotype		DM			RY		-0.03508	0.1255	183	-0.28	0.7802
Genotype		DM			WT		0.002304	0.1255	183	0.02	0.9854
Genotype		RY			WT		0.03738	0.1256	183	0.30	0.7663
Dose			0.1			1	-0.2501	0.1253	182	-2.00	0.0473
Dose			0.1			6	0.1042	0.1257	184	0.83	0.4082
Dose			0.1			0	0.1224	0.1250	181	0.98	0.3289
Dose			1			6	0.3543	0.1258	184	2.82	0.0054
Dose			1			0	0.3725	0.1251	181	2.98	0.0033
Dose			6			0	0.01821	0.1256	183	0.15	0.8848

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				11.5335	0.3202	183	36.02	<.0001	0.05	10.9018	12.1653
Sex	F			0.2739	0.2266	183	1.21	0.2284	0.05	-0.1733	0.7210
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		0.2369	0.3204	183	0.74	0.4605	0.05	-0.3952	0.8690
Genotype		DM		-0.06983	0.3207	184	-0.22	0.8279	0.05	-0.7025	0.5628
Genotype		RY		0.04204	0.3208	184	0.13	0.8959	0.05	-0.5908	0.6749
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	-0.00265	0.3199	182	-0.01	0.9934	0.05	-0.6339	0.6286
Dose			1	0.9588	0.3201	182	3.00	0.0031	0.05	0.3272	1.5905
Dose			6	-0.3060	0.3207	184	-0.95	0.3412	0.05	-0.9388	0.3268
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	183	1.46	0.2284
Genotype	3	183	0.34	0.7985
Dose	3	183	5.88	0.0007

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			12.0223	0.1603
Sex	M			11.7484	0.1603
Genotype		CG		12.0699	0.2262
Genotype		DM		11.7632	0.2267
Genotype		RY		11.8751	0.2268
Genotype		WT		11.8330	0.2268
Dose			0.1	11.7201	0.2263
Dose			1	12.6816	0.2266

Mixed Effects Model for terminal tips

The Mixed Procedure

Least Squares Means					
Effect	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**
Dose			6	11.4167	0.2275
Dose			0	11.7228	0.2261

Differences of Least Squares Means											
Effect	**Sex**	**Genotype**	**Dose**	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex	F			M			0.2739	0.2266	183	1.21	0.2284
Genotype		CG			DM		0.3067	0.3202	183	0.96	0.3394
Genotype		CG			RY		0.1949	0.3204	183	0.61	0.5437
Genotype		CG			WT		0.2369	0.3204	183	0.74	0.4605
Genotype		DM			RY		-0.1119	0.3207	184	-0.35	0.7276
Genotype		DM			WT		-0.06983	0.3207	184	-0.22	0.8279
Genotype		RY			WT		0.04204	0.3208	184	0.13	0.8959
Dose			0.1			1	-0.9615	0.3203	183	-3.00	0.0031
Dose			0.1			6	0.3034	0.3209	184	0.95	0.3456
Dose			0.1			0	-0.00265	0.3199	182	-0.01	0.9934
Dose			1			6	1.2649	0.3211	184	3.94	0.0001
Dose			1			0	0.9588	0.3201	182	3.00	0.0031
Dose			6			0	-0.3060	0.3207	184	-0.95	0.3412

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				587.25	36.6338	173	16.03	<.0001	0.05	514.94	659.55
Sex	F			9.2600	17.7872	174	0.52	0.6033	0.05	-25.8470	44.3671
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		128.08	50.2063	172	2.55	0.0116	0.05	28.9778	227.18
Genotype		DM		22.9017	50.2063	172	0.46	0.6489	0.05	-76.1972	122.00
Genotype		RY		-5.7241	50.2477	173	-0.11	0.9094	0.05	-104.90	93.4543
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	52.0065	50.2477	173	1.04	0.3021	0.05	-47.1720	151.18
Dose			1	42.7621	50.4042	175	0.85	0.3974	0.05	-56.7175	142.24
Dose			6	74.2940	50.2893	173	1.48	0.1414	0.05	-24.9643	173.55
Dose			0	0	.	.	.	.	.	.	.
Genotype*Dose		CG	0.1	-116.54	71.0025	172	-1.64	0.1025	0.05	-256.69	23.6052
Genotype*Dose		CG	1	-80.7242	71.1425	173	-1.13	0.2581	0.05	-221.14	59.6923
Genotype*Dose		CG	6	-215.30	71.0906	173	-3.03	0.0028	0.05	-355.61	-74.9805
Genotype*Dose		CG	0	0	.	.	.	.	.	.	.
Genotype*Dose		DM	0.1	-67.8833	71.0318	173	-0.96	0.3406	0.05	-208.09	72.3201
Genotype*Dose		DM	1	96.1550	71.1426	173	1.35	0.1783	0.05	-44.2616	236.57
Genotype*Dose		DM	6	-104.93	71.1865	174	-1.47	0.1423	0.05	-245.43	35.5751
Genotype*Dose		DM	0	0	.	.	.	.	.	.	.
Genotype*Dose		RY	0.1	34.5311	71.0905	173	0.49	0.6278	0.05	-105.78	174.85
Genotype*Dose		RY	1	68.3232	71.1473	173	0.96	0.3382	0.05	-72.1026	208.75
Genotype*Dose		RY	6	-44.0223	71.2313	174	-0.62	0.5374	0.05	-184.61	96.5646
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 Effects Model for dendrite length sum

The Mixed Procedure

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	174	0.27	0.6033
Genotype	3	174	0.38	0.7661
Dose	3	174	3.79	0.0114
Genotype*Dose	9	174	2.22	0.0229

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			648.19	12.5775
Sex	M			638.93	12.5774
Genotype		CG		659.08	17.7580
Genotype		DM		637.88	17.7893
Genotype		RY		643.12	17.8017
Genotype		WT		634.14	17.8003
Dose			0.1	642.72	17.7653
Dose			1	691.89	17.7868
Dose			6	611.42	17.8464
Dose			0	628.19	17.7506
Genotype*Dose		CG	0.1	655.42	35.4720
Genotype*Dose		CG	1	681.99	35.5305
Genotype*Dose		CG	6	578.95	35.5893
Genotype*Dose		CG	0	719.95	35.4720
Genotype*Dose		DM	0.1	598.90	35.5305
Genotype*Dose		DM	1	753.69	35.5305
Genotype*Dose		DM	6	584.15	35.7805
Genotype*Dose		DM	0	614.78	35.4720
Genotype*Dose		RY	0.1	672.69	35.5893
Genotype*Dose		RY	1	697.24	35.4815
Genotype*Dose		RY	6	616.42	35.8114
Genotype*Dose		RY	0	586.15	35.5305
Genotype*Dose		WT	0.1	643.88	35.5305
Genotype*Dose		WT	1	634.64	35.7514

Mixed Effects Model for dendrite length sum

The Mixed Procedure

Least Squares Means					
Effect	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**
Genotype*Dose		WT	6	666.17	35.5893
Genotype*Dose		WT	0	591.88	35.5305

Differences of Least Squares Means										
Effect	**Sex**	**Genotype**	**Dose**	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex	F			M			9.2600	17.7872	174	0.52	0.6033
Genotype		CG			DM		21.1977	25.1357	173	0.84	0.4002
Genotype		CG			RY		15.9521	25.1445	173	0.63	0.5266
Genotype		CG			WT		24.9360	25.1435	173	0.99	0.3227
Genotype		DM			RY		-5.2456	25.1666	174	-0.21	0.8351
Genotype		DM			WT		3.7383	25.1656	174	0.15	0.8821
Genotype		RY			WT		8.9839	25.1744	174	0.36	0.7216
Dose			0.1			1	-49.1677	25.1391	173	-1.96	0.0521
Dose			0.1			6	31.3001	25.1813	174	1.24	0.2155
Dose			0.1			0	14.5330	25.1135	173	0.58	0.5636
Dose			1			6	80.4677	25.1965	175	3.19	0.0017
Dose			1			0	63.7006	25.1288	173	2.53	0.0121
Dose			6			0	-16.7671	25.1710	174	-0.67	0.5062
Genotype*Dose		CG	0.1		CG	1	-26.5734	50.2063	172	-0.53	0.5973
Genotype*Dose		CG	0.1		CG	6	76.4673	50.2480	173	1.52	0.1299
Genotype*Dose		CG	0.1		CG	0	-64.5354	50.1649	172	-1.29	0.2000
Genotype*Dose		CG	0.1		DM	0.1	56.5164	50.2063	172	1.13	0.2619
Genotype*Dose		CG	0.1		DM	1	-98.2776	50.2063	172	-1.96	0.0519
Genotype*Dose		CG	0.1		DM	6	71.2709	50.3836	175	1.41	0.1590
Genotype*Dose		CG	0.1		DM	0	40.6396	50.1649	172	0.81	0.4190
Genotype*Dose		CG	0.1		RY	0.1	-17.2722	50.2480	173	-0.34	0.7315
Genotype*Dose		CG	0.1		RY	1	-41.8199	50.1717	172	-0.83	0.4057
Genotype*Dose		CG	0.1		RY	6	38.9937	50.4055	175	0.77	0.4402
Genotype*Dose		CG	0.1		RY	0	69.2654	50.2063	172	1.38	0.1695
Genotype*Dose		CG	0.1		WT	0.1	11.5348	50.2063	172	0.23	0.8186
Genotype*Dose		CG	0.1		WT	1	20.7792	50.3629	174	0.41	0.6804

Mixed Effects Model for dendrite length sum

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	-10.7527	50.2480	173	-0.21	0.8308
Genotype*Dose		CG	0.1		WT	0	63.5413	50.2063	172	1.27	0.2074
Genotype*Dose		CG	1		CG	6	103.04	50.2893	173	2.05	0.0420
Genotype*Dose		CG	1		CG	0	-37.9621	50.2063	172	-0.76	0.4506
Genotype*Dose		CG	1		DM	0.1	83.0897	50.2477	173	1.65	0.1000
Genotype*Dose		CG	1		DM	1	-71.7042	50.2477	173	-1.43	0.1554
Genotype*Dose		CG	1		DM	6	97.8443	50.4248	175	1.94	0.0539
Genotype*Dose		CG	1		DM	0	67.2129	50.2063	172	1.34	0.1824
Genotype*Dose		CG	1		RY	0.1	9.3012	50.2893	173	0.18	0.8535
Genotype*Dose		CG	1		RY	1	-15.2466	50.2131	172	-0.30	0.7618
Genotype*Dose		CG	1		RY	6	65.5671	50.4468	175	1.30	0.1954
Genotype*Dose		CG	1		RY	0	95.8388	50.2477	173	1.91	0.0581
Genotype*Dose		CG	1		WT	0.1	38.1082	50.2477	173	0.76	0.4492
Genotype*Dose		CG	1		WT	1	47.3525	50.4041	175	0.94	0.3488
Genotype*Dose		CG	1		WT	6	15.8207	50.2893	173	0.31	0.7534
Genotype*Dose		CG	1		WT	0	90.1146	50.2477	173	1.79	0.0747
Genotype*Dose		CG	6		CG	0	-141.00	50.2480	173	-2.81	0.0056
Genotype*Dose		CG	6		DM	0.1	-19.9509	50.2893	173	-0.40	0.6921
Genotype*Dose		CG	6		DM	1	-174.74	50.2893	173	-3.47	0.0006
Genotype*Dose		CG	6		DM	6	-5.1964	50.4662	176	-0.10	0.9181
Genotype*Dose		CG	6		DM	0	-35.8277	50.2480	173	-0.71	0.4768
Genotype*Dose		CG	6		RY	0.1	-93.7395	50.3309	174	-1.86	0.0642
Genotype*Dose		CG	6		RY	1	-118.29	50.2547	173	-2.35	0.0197
Genotype*Dose		CG	6		RY	6	-37.4736	50.4881	176	-0.74	0.4589
Genotype*Dose		CG	6		RY	0	-7.2019	50.2893	173	-0.14	0.8863
Genotype*Dose		CG	6		WT	0.1	-64.9325	50.2893	173	-1.29	0.1984
Genotype*Dose		CG	6		WT	1	-55.6882	50.4456	175	-1.10	0.2711
Genotype*Dose		CG	6		WT	6	-87.2200	50.3309	174	-1.73	0.0849
Genotype*Dose		CG	6		WT	0	-12.9260	50.2893	173	-0.26	0.7975
Genotype*Dose		CG	0		DM	0.1	121.05	50.2063	172	2.41	0.0170
Genotype*Dose		CG	0		DM	1	-33.7421	50.2063	172	-0.67	0.5024
Genotype*Dose		CG	0		DM	6	135.81	50.3836	175	2.70	0.0077

Mixed Effects Model for dendrite length sum

The Mixed Procedure

Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Differences of Least Squares Means											
Genotype*Dose		CG	0		DM	0	105.17	50.1649	172	2.10	0.0375
Genotype*Dose		CG	0		RY	0.1	47.2632	50.2480	173	0.94	0.3482
Genotype*Dose		CG	0		RY	1	22.7155	50.1717	172	0.45	0.6513
Genotype*Dose		CG	0		RY	6	103.53	50.4055	175	2.05	0.0415
Genotype*Dose		CG	0		RY	0	133.80	50.2063	172	2.67	0.0084
Genotype*Dose		CG	0		WT	0.1	76.0702	50.2063	172	1.52	0.1316
Genotype*Dose		CG	0		WT	1	85.3146	50.3629	174	1.69	0.0921
Genotype*Dose		CG	0		WT	6	53.7827	50.2480	173	1.07	0.2860
Genotype*Dose		CG	0		WT	0	128.08	50.2063	172	2.55	0.0116
Genotype*Dose		DM	0.1		DM	1	-154.79	50.2477	173	-3.08	0.0024
Genotype*Dose		DM	0.1		DM	6	14.7545	50.4248	175	0.29	0.7702
Genotype*Dose		DM	0.1		DM	0	-15.8768	50.2063	172	-0.32	0.7522
Genotype*Dose		DM	0.1		RY	0.1	-73.7886	50.2893	173	-1.47	0.1441
Genotype*Dose		DM	0.1		RY	1	-98.3363	50.2131	172	-1.96	0.0518
Genotype*Dose		DM	0.1		RY	6	-17.5227	50.4466	175	-0.35	0.7287
Genotype*Dose		DM	0.1		RY	0	12.7490	50.2477	173	0.25	0.8000
Genotype*Dose		DM	0.1		WT	0.1	-44.9816	50.2477	173	-0.90	0.3719
Genotype*Dose		DM	0.1		WT	1	-35.7372	50.4042	175	-0.71	0.4793
Genotype*Dose		DM	0.1		WT	6	-67.2691	50.2893	173	-1.34	0.1828
Genotype*Dose		DM	0.1		WT	0	7.0249	50.2477	173	0.14	0.8890
Genotype*Dose		DM	1		DM	6	169.55	50.4248	175	3.36	0.0009
Genotype*Dose		DM	1		DM	0	138.92	50.2063	172	2.77	0.0063
Genotype*Dose		DM	1		RY	0.1	81.0054	50.2893	173	1.61	0.1090
Genotype*Dose		DM	1		RY	1	56.4576	50.2131	172	1.12	0.2624
Genotype*Dose		DM	1		RY	6	137.27	50.4466	175	2.72	0.0072
Genotype*Dose		DM	1		RY	0	167.54	50.2477	173	3.33	0.0010
Genotype*Dose		DM	1		WT	0.1	109.81	50.2477	173	2.19	0.0302
Genotype*Dose		DM	1		WT	1	119.06	50.4042	175	2.36	0.0193
Genotype*Dose		DM	1		WT	6	87.5249	50.2893	173	1.74	0.0836
Genotype*Dose		DM	1		WT	0	161.82	50.2477	173	3.22	0.0015
Genotype*Dose		DM	6		DM	0	-30.6313	50.3836	175	-0.61	0.5440
Genotype*Dose		DM	6		RY	0.1	-88.5431	50.4662	176	-1.75	0.0811

Mixed Effects Model for dendrite length sum

The Mixed Procedure

Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Genotype*Dose		DM	6		RY	1	-113.09	50.3903	175	-2.24	0.0261
Genotype*Dose		DM	6		RY	6	-32.2772	50.6232	178	-0.64	0.5246
Genotype*Dose		DM	6		RY	0	-2.0055	50.4248	175	-0.04	0.9683
Genotype*Dose		DM	6		WT	0.1	-59.7361	50.4248	175	-1.18	0.2378
Genotype*Dose		DM	6		WT	1	-50.4918	50.5806	177	-1.00	0.3195
Genotype*Dose		DM	6		WT	6	-82.0236	50.4662	176	-1.63	0.1059
Genotype*Dose		DM	6		WT	0	-7.7297	50.4248	175	-0.15	0.8783
Genotype*Dose		DM	0		RY	0.1	-57.9118	50.2480	173	-1.15	0.2507
Genotype*Dose		DM	0		RY	1	-82.4595	50.1717	172	-1.64	0.1021
Genotype*Dose		DM	0		RY	6	-1.6459	50.4055	175	-0.03	0.9740
Genotype*Dose		DM	0		RY	0	28.6258	50.2063	172	0.57	0.5693
Genotype*Dose		DM	0		WT	0.1	-29.1048	50.2063	172	-0.58	0.5629
Genotype*Dose		DM	0		WT	1	-19.8604	50.3629	174	-0.39	0.6938
Genotype*Dose		DM	0		WT	6	-51.3923	50.2480	173	-1.02	0.3078
Genotype*Dose		DM	0		WT	0	22.9017	50.2063	172	0.46	0.6489
Genotype*Dose		RY	0.1		RY	1	-24.5477	50.2547	173	-0.49	0.6258
Genotype*Dose		RY	0.1		RY	6	56.2659	50.4881	176	1.11	0.2666
Genotype*Dose		RY	0.1		RY	0	86.5376	50.2893	173	1.72	0.0871
Genotype*Dose		RY	0.1		WT	0.1	28.8070	50.2893	173	0.57	0.5675
Genotype*Dose		RY	0.1		WT	1	38.0514	50.4456	175	0.75	0.4517
Genotype*Dose		RY	0.1		WT	6	6.5195	50.3309	174	0.13	0.8971
Genotype*Dose		RY	0.1		WT	0	80.8135	50.2893	173	1.61	0.1099
Genotype*Dose		RY	1		RY	6	80.8137	50.4122	175	1.60	0.1107
Genotype*Dose		RY	1		RY	0	111.09	50.2131	172	2.21	0.0283
Genotype*Dose		RY	1		WT	0.1	53.3548	50.2131	172	1.06	0.2895
Genotype*Dose		RY	1		WT	1	62.5991	50.3696	174	1.24	0.2156
Genotype*Dose		RY	1		WT	6	31.0673	50.2547	173	0.62	0.5373
Genotype*Dose		RY	1		WT	0	105.36	50.2131	172	2.10	0.0373
Genotype*Dose		RY	6		RY	0	30.2717	50.4468	175	0.60	0.5492
Genotype*Dose		RY	6		WT	0.1	-27.4589	50.4468	175	-0.54	0.5869
Genotype*Dose		RY	6		WT	1	-18.2146	50.6027	177	-0.36	0.7193
Genotype*Dose		RY	6		WT	6	-49.7464	50.4881	176	-0.99	0.3258

Mixed Effects Model for dendrite length sum

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	24.5475	50.4466	175	0.49	0.6271
Genotype*Dose		RY	0		WT	0.1	-57.7306	50.2477	173	-1.15	0.2522
Genotype*Dose		RY	0		WT	1	-48.4862	50.4041	175	-0.96	0.3374
Genotype*Dose		RY	0		WT	6	-80.0181	50.2893	173	-1.59	0.1134
Genotype*Dose		RY	0		WT	0	-5.7241	50.2477	173	-0.11	0.9094
Genotype*Dose		WT	0.1		WT	1	9.2443	50.4041	175	0.18	0.8547
Genotype*Dose		WT	0.1		WT	6	-22.2875	50.2893	173	-0.44	0.6582
Genotype*Dose		WT	0.1		WT	0	52.0065	50.2477	173	1.04	0.3021
Genotype*Dose		WT	1		WT	6	-31.5318	50.4456	175	-0.63	0.5327
Genotype*Dose		WT	1		WT	0	42.7621	50.4042	175	0.85	0.3974
Genotype*Dose		WT	6		WT	0	74.2940	50.2893	173	1.48	0.1414

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				241.25	5.5007	182	43.86	<.0001	0.05	230.40	252.10
Sex	F			1.7592	3.8946	183	0.45	0.6520	0.05	-5.9250	9.4433
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		1.4624	5.5043	182	0.27	0.7908	0.05	-9.3978	12.3226
Genotype		DM		-9.6562	5.5112	183	-1.75	0.0814	0.05	-20.5298	1.2173
Genotype		RY		-12.3720	5.5137	183	-2.24	0.0260	0.05	-23.2505	-1.4935
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	14.7067	5.4950	181	2.68	0.0081	0.05	3.8643	25.5491
Dose			1	11.1504	5.4995	182	2.03	0.0441	0.05	0.2993	22.0015
Dose			6	8.5039	5.5130	184	1.54	0.1247	0.05	-2.3731	19.3809
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	183	0.20	0.6520
Genotype	3	183	3.14	0.0267
Dose	3	183	2.60	0.0536

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			246.46	2.7539
Sex	M			244.70	2.7539
Genotype		CG		252.18	3.8856
Genotype		DM		241.06	3.8954
Genotype		RY		238.35	3.8990
Genotype		WT		250.72	3.8986
Dose			0.1	251.69	3.8879
Dose			1	248.14	3.8942

Mixed model for cell body area

The Mixed Procedure

Least Squares Means					
Effect	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**
Dose			6	245.49	3.9132
Dose			0	236.99	3.8832

Differences of Least Squares Means											
Effect	**Sex**	**Genotype**	**Dose**	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex	F			M			1.7592	3.8946	183	0.45	0.6520
Genotype		CG			DM		11.1186	5.5020	182	2.02	0.0448
Genotype		CG			RY		13.8344	5.5045	182	2.51	0.0128
Genotype		CG			WT		1.4624	5.5043	182	0.27	0.7908
Genotype		DM			RY		2.7158	5.5114	183	0.49	0.6228
Genotype		DM			WT		-9.6562	5.5112	183	-1.75	0.0814
Genotype		RY			WT		-12.3720	5.5137	183	-2.24	0.0260
Dose			0.1			1	3.5563	5.5028	182	0.65	0.5189
Dose			0.1			6	6.2028	5.5163	184	1.12	0.2623
Dose			0.1			0	14.7067	5.4950	181	2.68	0.0081
Dose			1			6	2.6465	5.5208	184	0.48	0.6322
Dose			1			0	11.1504	5.4995	182	2.03	0.0441
Dose			6			0	8.5039	5.5130	184	1.54	0.1247

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				1.9491	0.03974	184	49.05	<.0001	0.05	1.8707	2.0275
Sex	F			0.03566	0.02815	185	1.27	0.2069	0.05	-0.01988	0.09121
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		0.04820	0.03977	185	1.21	0.2271	0.05	-0.03027	0.1267
Genotype		DM		-0.01594	0.03986	186	-0.40	0.6897	0.05	-0.09457	0.06270
Genotype		RY		-0.01231	0.03988	186	-0.31	0.7579	0.05	-0.09100	0.06637
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	-0.04131	0.03967	183	-1.04	0.2990	0.05	-0.1196	0.03695
Dose			1	0.03790	0.03971	184	0.95	0.3412	0.05	-0.04046	0.1162
Dose			6	-0.05027	0.03988	186	-1.26	0.2091	0.05	-0.1289	0.02841
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	185	1.60	0.2069
Genotype	3	185	1.11	0.3459
Dose	3	185	2.08	0.1050

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			1.9763	0.01991
Sex	M			1.9406	0.01991
Genotype		CG		2.0017	0.02805
Genotype		DM		1.9375	0.02817
Genotype		RY		1.9412	0.02820
Genotype		WT		1.9535	0.02820
Dose			0.1	1.9306	0.02808
Dose			1	2.0098	0.02814

Mixed model for tips per dendrite

The Mixed Procedure

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Dose			6	1.9216	0.02838
Dose			0	1.9719	0.02802

Differences of Least Squares Means											
Effect	Sex	Genotype	Dose	Sex	Genotype	Dose	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex	F			M			0.03566	0.02815	185	1.27	0.2069
Genotype		CG			DM		0.06414	0.03975	184	1.61	0.1083
Genotype		CG			RY		0.06052	0.03978	185	1.52	0.1299
Genotype		CG			WT		0.04820	0.03977	185	1.21	0.2271
Genotype		DM			RY		-0.00362	0.03986	186	-0.09	0.9276
Genotype		DM			WT		-0.01594	0.03986	186	-0.40	0.6897
Genotype		RY			WT		-0.01231	0.03988	186	-0.31	0.7579
Dose			0.1			1	-0.07921	0.03975	184	-1.99	0.0478
Dose			0.1			6	0.008953	0.03992	187	0.22	0.8228
Dose			0.1			0	-0.04131	0.03967	183	-1.04	0.2990
Dose			1			6	0.08816	0.03997	188	2.21	0.0286
Dose			1			0	0.03790	0.03971	184	0.95	0.3412
Dose			6			0	-0.05027	0.03988	186	-1.26	0.2091

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				104.20	3.5329	182	29.49	<.0001	0.05	97.2269	111.17
Sex	F			1.0544	2.5021	183	0.42	0.6740	0.05	-3.8823	5.9911
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		4.9347	3.5356	182	1.40	0.1645	0.05	-2.0413	11.9107
Genotype		DM		0.3581	3.5413	183	0.10	0.9196	0.05	-6.6288	7.3449
Genotype		RY		-0.08195	3.5432	184	-0.02	0.9816	0.05	-7.0725	6.9086
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	-0.4280	3.5283	181	-0.12	0.9036	0.05	-7.3898	6.5338
Dose			1	3.7995	3.5317	182	1.08	0.2834	0.05	-3.1690	10.7679
Dose			6	-2.3990	3.5428	184	-0.68	0.4992	0.05	-9.3887	4.5907
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	183	0.18	0.6740
Genotype	3	183	0.95	0.4197
Dose	3	183	1.07	0.3639

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			106.80	1.7693
Sex	M			105.74	1.7693
Genotype		CG		109.90	2.4949
Genotype		DM		105.33	2.5028
Genotype		RY		104.89	2.5055
Genotype		WT		104.97	2.5053
Dose			0.1	105.60	2.4968
Dose			1	109.83	2.5016

Mixed model for dendritic mean length

The Mixed Procedure

Least Squares Means					
Effect	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**
Dose			6	103.63	2.5172
Dose			0	106.03	2.4930

Differences of Least Squares Means											
Effect	**Sex**	**Genotype**	**Dose**	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex	F			M			1.0544	2.5021	183	0.42	0.6740
Genotype		CG			DM		4.5766	3.5339	182	1.30	0.1969
Genotype		CG			RY		5.0166	3.5358	182	1.42	0.1577
Genotype		CG			WT		4.9347	3.5356	182	1.40	0.1645
Genotype		DM			RY		0.4400	3.5414	183	0.12	0.9012
Genotype		DM			WT		0.3581	3.5413	183	0.10	0.9196
Genotype		RY			WT		-0.08195	3.5432	184	-0.02	0.9816
Dose			0.1			1	-4.2274	3.5344	182	-1.20	0.2332
Dose			0.1			6	1.9710	3.5455	184	0.56	0.5789
Dose			0.1			0	-0.4280	3.5283	181	-0.12	0.9036
Dose			1			6	6.1985	3.5489	185	1.75	0.0824
Dose			1			0	3.7995	3.5317	182	1.08	0.2834
Dose			6			0	-2.3990	3.5428	184	-0.68	0.4992

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				5.2337	0.2382	183	21.97	<.0001	0.05	4.7638	5.7036
Sex	F			0.2403	0.1686	184	1.42	0.1559	0.05	-0.09246	0.5730
Sex	M			0	.	.	.	.	.	.	.
Genotype		CG		0.2296	0.2383	183	0.96	0.3367	0.05	-0.2406	0.6998
Genotype		DM		-0.06773	0.2386	184	-0.28	0.7769	0.05	-0.5386	0.4031
Genotype		RY		0.04704	0.2388	184	0.20	0.8440	0.05	-0.4240	0.5181
Genotype		WT		0	.	.	.	.	.	.	.
Dose			0.1	-0.1305	0.2379	182	-0.55	0.5840	0.05	-0.5999	0.3389
Dose			1	0.5842	0.2381	182	2.45	0.0151	0.05	0.1143	1.0540
Dose			6	-0.2769	0.2387	184	-1.16	0.2475	0.05	-0.7479	0.1940
Dose			0	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	1	184	2.03	0.1559
Genotype	3	184	0.57	0.6346
Dose	3	184	5.00	0.0024

Least Squares Means					
Effect	Sex	Genotype	Dose	Estimate	Standard Error
Sex	F			5.5703	0.1192
Sex	M			5.3301	0.1192
Genotype		CG		5.6276	0.1682
Genotype		DM		5.3303	0.1687
Genotype		RY		5.4450	0.1688
Genotype		WT		5.3980	0.1688
Dose			0.1	5.2755	0.1683
Dose			1	5.9902	0.1686

Mixed model for Nodes

The Mixed Procedure

Least Squares Means					
Effect	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**
Dose			6	5.1291	0.1695
Dose			0	5.4060	0.1681

Differences of Least Squares Means											
Effect	**Sex**	**Genotype**	**Dose**	**Sex**	**Genotype**	**Dose**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex	F			M			0.2403	0.1686	184	1.42	0.1559
Genotype		CG			DM		0.2973	0.2382	183	1.25	0.2136
Genotype		CG			RY		0.1825	0.2383	183	0.77	0.4447
Genotype		CG			WT		0.2296	0.2383	183	0.96	0.3367
Genotype		DM			RY		-0.1148	0.2386	184	-0.48	0.6311
Genotype		DM			WT		-0.06773	0.2386	184	-0.28	0.7769
Genotype		RY			WT		0.04704	0.2388	184	0.20	0.8440
Dose			0.1			1	-0.7147	0.2383	183	-3.00	0.0031
Dose			0.1			6	0.1464	0.2389	185	0.61	0.5406
Dose			0.1			0	-0.1305	0.2379	182	-0.55	0.5840
Dose			1			6	0.8611	0.2391	185	3.60	0.0004
Dose			1			0	0.5842	0.2381	182	2.45	0.0151
Dose			6			0	-0.2769	0.2387	184	-1.16	0.2475