*Generalized Linear Mixed Models.
GENLINMIXED
/DATA_STRUCTURE SUBJECTS=Parent*Genotype*Sample_ID *Brainregion
/FIELDS TARGET=AISlength TRIALS=NONE OFFSET=NONE
/TARGET_OPTIONS DISTRIBUTION=NORMAL LINK=LOG
/FIXED EFFECTS=Genotype Brainregion Genotype*Brainregion USE_INTERCEPT=True
/RANDOM EFFECTS=Age SUBJECTS=Parent*Sample_ID USE_INTERCEPT=TRUE
COVARIANCE_TYPE=VARIANCE_COMPONENTS
/BUILD_OPTIONS TARGET_CATEGORY_ORDER=ASCENDING INPUTS_CATEGORY_ORDER=ASCENDING
LCONVERGE=0.0000001 (ABSOLUTE) HCONVERGE=0.0000001 (RELATIVE) MAX_ITERATIONS=100
CONFIDENCE_LEVEL=95
DF_METHOD=RESIDUAL COVB=ROBUST SCORING=0 SINGULAR=0.00000001
/EMMEANS TABLES=Genotype*Brainregion COMPARE=Genotype CONTRAST=PAIRWISE
/EMMEANS_OPTIONS SCALE=ORIGINAL PADJUST=SEQBONFERRONI.

Generalized Linear Mixed Models

Warnings

glmm: The final Hessian matrix is not positive definite although
all convergence criteria are satisfied. The procedure continues
despite this warning. Subsequent results produced are based on
the last iteration. Validity of the model fit is uncertain.

Case Processing Summary

	N	Percent
Included	11608	100.0%
Excluded	0	0.0%
Total	11608	100.0%

Model Summary

Target		AIS length
Probability Distribution		Normal
Link Function		Log
Information Criterion	Akaike Corrected	-10636.723
	Bayesian	-10614.652

Information criteria are based on the -2 log likelihood (-10642.725)
and are used to compare models. Models with smaller information
criterion values fit better.

Coefficients of Determination[a]

Pseudo-R Square Measures	Marginal	.477
	Conditional	.489

a. Observation-level variance estimated via delta
method.

Intraclass Correlation Coefficients[a]

Overall ICCs	Adjusted	.024
	Conditional	.012

a. Observation-level variance estimated via delta method.

Data Structure[a,b]

	Subjects		Target
	Parent	Sample_ID	AIS length
Data for First Subject	Fmr1/GFP19	212	31.374
	Fmr1/GFP19	212	22.746
	Fmr1/GFP19	212	31.564
	Fmr1/GFP19	212	25.691
	Fmr1/GFP19	212	33.093
	Fmr1/GFP19	212	39.420
	Fmr1/GFP19	212	15.316
	Fmr1/GFP19	212	32.724
	Fmr1/GFP19	212	23.089
	Fmr1/GFP19	212	30.880
Total Number of Levels	2	12	

Only the first 10 records are displayed.

a. Target: AIS length

b. Target: AIS length
One or more subject fields were specified but not actually used in the analysis.

Predicted by Observed
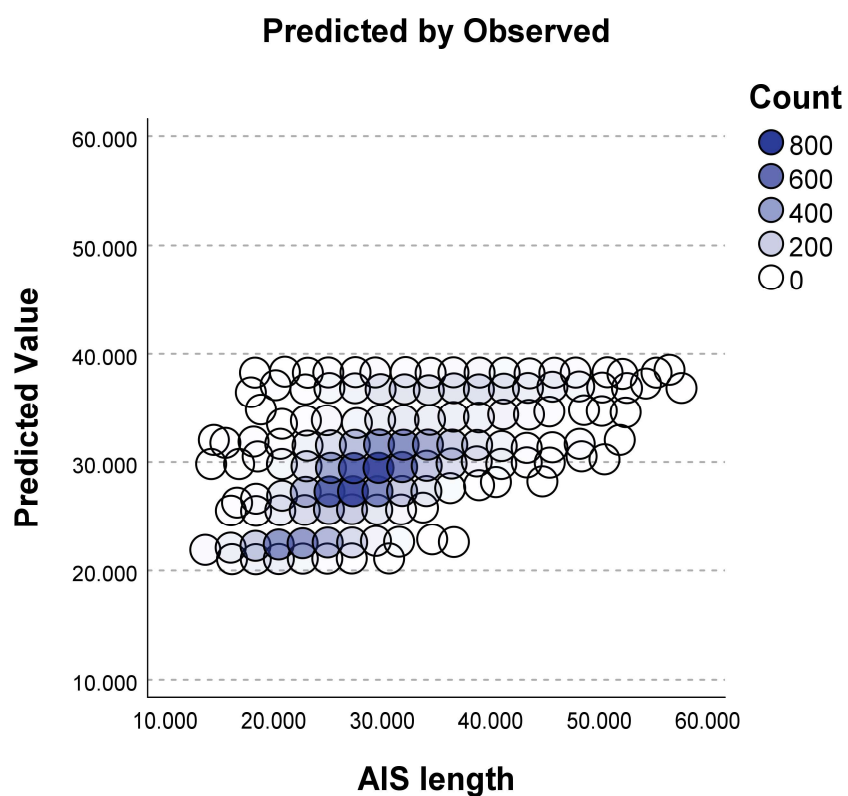
Fixed Effects[a]

Source	F	df1	df2	Sig.
Corrected Model	400.539	10	11586	<.001
Genotype	2.513	1	11586	.113
Brainregion	1088.017	10	11586	<.001
Genotype * Brainregion	43.933	10	11586	<.001

Probability distribution: Normal
Link function: Log

a. Target: AIS length

Fixed Effects
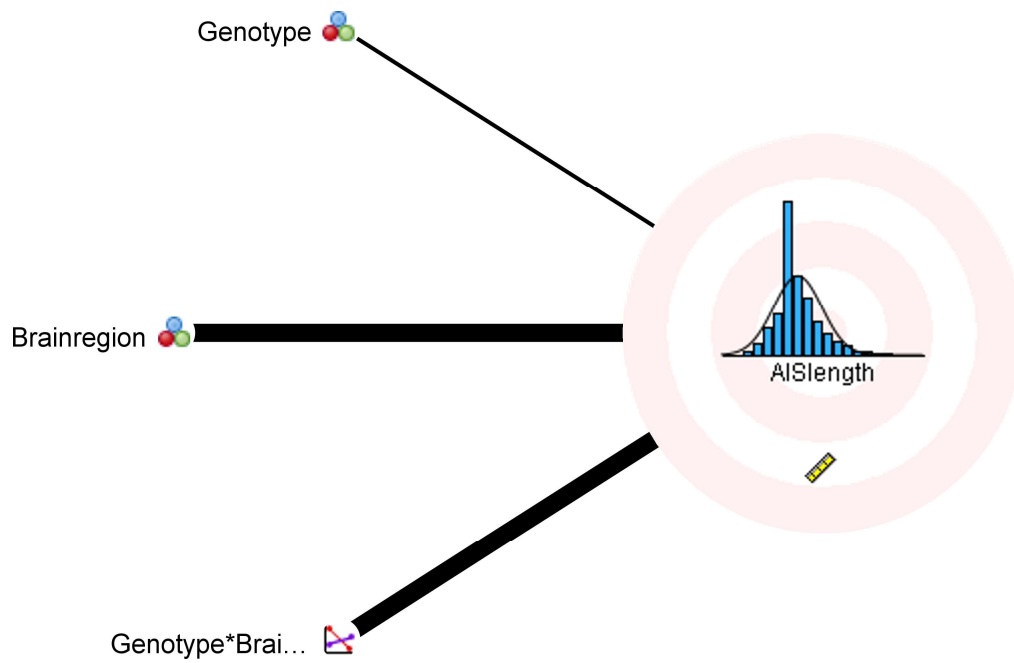
Genotype

Brainregion

AISlength

Genotype*Brai...

Fixed Coefficients[a]

Model Term	Coefficient	Std. Error	t	Sig.	95% Confidence Interval	
					Lower	Upper
Intercept	3.252	.0211	154.100	<.001	3.211	3.293
Genotype=KO	.109	.0393	2.770	.006	.032	.186
Genotype=WT	0[b]	.	.	.	.	.
Brainregion=BA	.275	.0354	7.779	<.001	.206	.345
Brainregion=CA1	.174	.0269	6.458	<.001	.121	.226
Brainregion=CA3	.369	.0240	15.346	<.001	.322	.416
Brainregion=LA	-.152	.0322	-4.725	<.001	-.215	-.089
Brainregion=S1L23	.126	.0246	5.097	<.001	.077	.174
Brainregion=S1L4	-.120	.0213	-5.624	<.001	-.162	-.078
Brainregion=S1L5	.108	.0173	6.249	<.001	.074	.142
Brainregion=V1L23	.059	.0396	1.497	.134	-.018	.137
Brainregion=V1L5	.202	.0239	8.436	<.001	.155	.248
Brainregion=mPFC L23	.003	.0135	.248	.804	-.023	.030
Brainregion=mPFC L5	0[b]	.	.	.	.	.
[Genotype=KO]* [Brainregion=BA]	-.054	.0555	-.978	.328	-.163	.055
[Genotype=KO]* [Brainregion=CA1]	-.109	.0531	-2.059	.039	-.213	-.005
[Genotype=KO]* [Brainregion=CA3]	-.120	.0429	-2.802	.005	-.204	-.036
[Genotype=KO]* [Brainregion=LA]	-.105	.0644	-1.637	.102	-.232	.021
[Genotype=KO]* [Brainregion=S1L23]	-.103	.0389	-2.643	.008	-.179	-.027
[Genotype=KO]* [Brainregion=S1L4]	-.166	.0235	-7.060	<.001	-.212	-.120
[Genotype=KO]* [Brainregion=S1L5]	-.029	.0351	-.820	.412	-.097	.040
[Genotype=KO]* [Brainregion=V1L23]	-.097	.0521	-1.862	.063	-.199	.005
[Genotype=KO]* [Brainregion=V1L5]	-.097	.0370	-2.634	.008	-.170	-.025
[Genotype=KO]* [Brainregion=mPFC L23]	-.065	.0246	-2.656	.008	-.114	-.017
[Genotype=KO]* [Brainregion=mPFC L5]	0[b]	.	.	.	.	.
[Genotype=WT]* [Brainregion=BA]	0[b]	.	.	.	.	.
[Genotype=WT]* [Brainregion=CA1]	0[b]	.	.	.	.	.
[Genotype=WT]* [Brainregion=CA3]	0[b]	.	.	.	.	.

Fixed Coefficients[a]

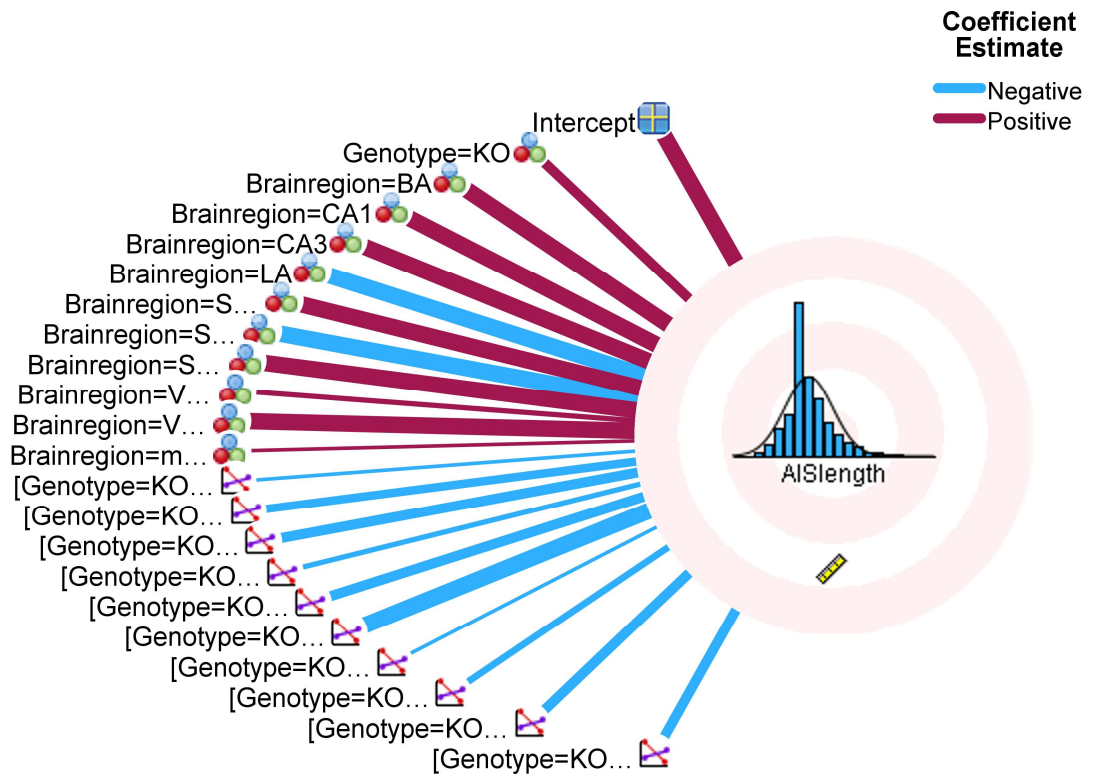| Model Term	Coefficient	Std. Error	t	Sig.	95% Confidence Interval Lower	Upper
[Genotype=WT]* [Brainregion=LA]	0[b]	.	.	.	.	.
[Genotype=WT]* [Brainregion=S1L23]	0[b]	.	.	.	.	.
[Genotype=WT]* [Brainregion=S1L4]	0[b]	.	.	.	.	.
[Genotype=WT]* [Brainregion=S1L5]	0[b]	.	.	.	.	.
[Genotype=WT]* [Brainregion=V1L23]	0[b]	.	.	.	.	.
[Genotype=WT]* [Brainregion=V1L5]	0[b]	.	.	.	.	.
[Genotype=WT]* [Brainregion=mPFC L23]	0[b]	.	.	.	.	.
[Genotype=WT]* [Brainregion=mPFC L5]	0[b]	.	.	.	.	.

Probability distribution: Normal
Link function: Log

a. Target: AIS length

b. This coefficient is set to zero because it is redundant.

Fixed Coefficients

Coefficient Estimate
- Negative
- Positive

Intercept

Genotype=KO

Brainregion=BA

Brainregion=CA1

Brainregion=CA3

Brainregion=LA

Brainregion=S…

Brainregion=S…

Brainregion=S…

Brainregion=V…

Brainregion=V…

Brainregion=m…

[Genotype=KO…

[Genotype=KO…

[Genotype=KO…

[Genotype=KO…

[Genotype=KO…

[Genotype=KO…

[Genotype=KO…

[Genotype=KO…

[Genotype=KO…

[Genotype=KO…

AISlength

Covariances of Fixed Coefficients[a]

	Intercept	Genotype=KO	Genotype=WT	Brainregion=BA
Intercept	.00045	-.00045	0[b]	-.00015
Genotype=KO	-.00045	.00155	0[b]	.00015
Genotype=WT	0[b]	0[b]	0[b]	0[b]
Brainregion=BA	-.00015	.00015	0[b]	.00125
Brainregion=CA1	-.00045	.00045	0[b]	.00031
Brainregion=CA3	-.00042	.00042	0[b]	.00056
Brainregion=LA	.00034	-.00034	0[b]	.00016
Brainregion=S1L23	-.00042	.00042	0[b]	-.00023
Brainregion=S1L4	-.00026	.00026	0[b]	.00027
Brainregion=S1L5	-.00030	.00030	0[b]	.00024
Brainregion=V1L23	-.00066	.00066	0[b]	.00025
Brainregion=V1L5	-.00040	.00040	0[b]	-7.30713E-6
Brainregion=mPFC L23	-.00016	.00016	0[b]	-.00019
Brainregion=mPFC L5	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]*[Brainregion=BA]	.00015	-.00154	0[b]	-.00125
[Genotype=KO]*[Brainregion=CA1]	.00045	-.00181	0[b]	-.00031
[Genotype=KO]*[Brainregion=CA3]	.00042	-.00142	0[b]	-.00056
[Genotype=KO]*[Brainregion=LA]	-.00034	-.00123	0[b]	-.00016
[Genotype=KO]*[Brainregion=S1L23]	.00042	-.00136	0[b]	.00023
[Genotype=KO]*[Brainregion=S1L4]	.00026	-.00025	0[b]	-.00027
[Genotype=KO]*[Brainregion=S1L5]	.00030	-.00116	0[b]	-.00024
[Genotype=KO]*[Brainregion=V1L23]	.00066	-.00156	0[b]	-.00025
[Genotype=KO]*[Brainregion=V1L5]	.00040	-.00122	0[b]	7.30713E-6
[Genotype=KO]*[Brainregion=mPFC L23]	.00016	-.00059	0[b]	.00019
[Genotype=KO]*[Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]*[Brainregion=BA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]*[Brainregion=CA1]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	Brainregion=CA1	Brainregion=CA3	Brainregion=LA	Brainregion=S1L23
Intercept	-.00045	-.00042	.00034	-.00042
Genotype=KO	.00045	.00042	-.00034	.00042
Genotype=WT	0[b]	0[b]	0[b]	0[b]
Brainregion=BA	.00031	.00056	.00016	-.00023
Brainregion=CA1	.00072	.00040	2.37526E-5	.00051
Brainregion=CA3	.00040	.00058	-.00028	.00021
Brainregion=LA	2.37526E-5	-.00028	.00104	-.00023
Brainregion=S1L23	.00051	.00021	-.00023	.00061
Brainregion=S1L4	.00036	.00024	-.00030	.00022
Brainregion=S1L5	.00045	.00027	-9.63548E-5	.00031
Brainregion=V1L23	.00031	.00077	-.00083	.00042
Brainregion=V1L5	.00020	.00040	-.00046	.00033
Brainregion=mPFC L23	.00022	1.54806E-5	-.00016	.00028
Brainregion=mPFC L5	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]*[Brainregion=BA]	-.00031	-.00056	-.00016	.00023
[Genotype=KO]*[Brainregion=CA1]	-.00072	-.00040	-2.37526E-5	-.00051
[Genotype=KO]*[Brainregion=CA3]	-.00040	-.00058	.00028	-.00021
[Genotype=KO]*[Brainregion=LA]	-2.37526E-5	.00028	-.00104	.00023
[Genotype=KO]*[Brainregion=S1L23]	-.00051	-.00021	.00023	-.00061
[Genotype=KO]*[Brainregion=S1L4]	-.00036	-.00024	.00030	-.00022
[Genotype=KO]*[Brainregion=S1L5]	-.00045	-.00027	9.63548E-5	-.00031
[Genotype=KO]*[Brainregion=V1L23]	-.00031	-.00077	.00083	-.00042
[Genotype=KO]*[Brainregion=V1L5]	-.00020	-.00040	.00046	-.00033
[Genotype=KO]*[Brainregion=mPFC L23]	-.00022	-1.54806E-5	.00016	-.00028
[Genotype=KO]*[Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]*[Brainregion=BA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]*[Brainregion=CA1]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	Brainregion=S1 L4	Brainregion=S1 L5	Brainregion=V1 L23	Brainregion=V1 L5
Intercept	-.00026	-.00030	-.00066	-.00040
Genotype=KO	.00026	.00030	.00066	.00040
Genotype=WT	0[b]	0[b]	0[b]	0[b]
Brainregion=BA	.00027	.00024	.00025	-7.30713E-6
Brainregion=CA1	.00036	.00045	.00031	.00020
Brainregion=CA3	.00024	.00027	.00077	.00040
Brainregion=LA	-.00030	-9.63548E-5	-.00083	-.00046
Brainregion=S1L23	.00022	.00031	.00042	.00033
Brainregion=S1L4	.00045	.00031	.00013	2.98127E-5
Brainregion=S1L5	.00031	.00030	.00022	.00012
Brainregion=V1L23	.00013	.00022	.00157	.00092
Brainregion=V1L5	2.98127E-5	.00012	.00092	.00057
Brainregion=mPFC L23	.00018	.00015	3.94610E-5	5.60892E-5
Brainregion=mPFC L5	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=BA]	-.00027	-.00024	-.00025	7.30713E-6
[Genotype=KO]* [Brainregion=CA1]	-.00036	-.00045	-.00031	-.00020
[Genotype=KO]* [Brainregion=CA3]	-.00024	-.00027	-.00077	-.00040
[Genotype=KO]* [Brainregion=LA]	.00030	9.63548E-5	.00083	.00046
[Genotype=KO]* [Brainregion=S1L23]	-.00022	-.00031	-.00042	-.00033
[Genotype=KO]* [Brainregion=S1L4]	-.00045	-.00031	-.00013	-2.98127E-5
[Genotype=KO]* [Brainregion=S1L5]	-.00031	-.00030	-.00022	-.00012
[Genotype=KO]* [Brainregion=V1L23]	-.00013	-.00022	-.00157	-.00092
[Genotype=KO]* [Brainregion=V1L5]	-2.98127E-5	-.00012	-.00092	-.00057
[Genotype=KO]* [Brainregion=mPFC L23]	-.00018	-.00015	-3.94610E-5	-5.60892E-5
[Genotype=KO]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=BA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=CA1]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	Brainregion=mPFC L23	Brainregion=mPFC L5	[Genotype=KO]* [Brainregion=BA]	[Genotype=KO]* [Brainregion=CA1]
Intercept	-.00016	0[b]	.00015	.00045
Genotype=KO	.00016	0[b]	-.00154	-.00181
Genotype=WT	0[b]	0[b]	0[b]	0[b]
Brainregion=BA	-.00019	0[b]	-.00125	-.00031
Brainregion=CA1	.00022	0[b]	-.00031	-.00072
Brainregion=CA3	1.54806E-5	0[b]	-.00056	-.00040
Brainregion=LA	-.00016	0[b]	-.00016	-2.37526E-5
Brainregion=S1L23	.00028	0[b]	.00023	-.00051
Brainregion=S1L4	.00018	0[b]	-.00027	-.00036
Brainregion=S1L5	.00015	0[b]	-.00024	-.00045
Brainregion=V1L23	3.94610E-5	0[b]	-.00025	-.00031
Brainregion=V1L5	5.60892E-5	0[b]	7.30713E-6	-.00020
Brainregion=mPFC L23	.00018	0[b]	.00019	-.00022
Brainregion=mPFC L5	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=BA]	.00019	0[b]	.00308	.00204
[Genotype=KO]* [Brainregion=CA1]	-.00022	0[b]	.00204	.00282
[Genotype=KO]* [Brainregion=CA3]	-1.54806E-5	0[b]	.00184	.00201
[Genotype=KO]* [Brainregion=LA]	.00016	0[b]	.00217	.00240
[Genotype=KO]* [Brainregion=S1L23]	-.00028	0[b]	.00090	.00176
[Genotype=KO]* [Brainregion=S1L4]	-.00018	0[b]	.00022	.00026
[Genotype=KO]* [Brainregion=S1L5]	-.00015	0[b]	.00143	.00151
[Genotype=KO]* [Brainregion=V1L23]	-3.94610E-5	0[b]	.00139	.00123
[Genotype=KO]* [Brainregion=V1L5]	-5.60892E-5	0[b]	.00109	.00128
[Genotype=KO]* [Brainregion=mPFC L23]	-.00018	0[b]	.00039	.00102
[Genotype=KO]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=BA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=CA1]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	[Genotype=KO]* [Brainregion=CA3]	[Genotype=KO]* [Brainregion=LA]	[Genotype=KO]* [Brainregion=S1L23]	[Genotype=KO]* [Brainregion=S1L4]
Intercept	.00042	-.00034	.00042	.00026
Genotype=KO	-.00142	-.00123	-.00136	-.00025
Genotype=WT	0[b]	0[b]	0[b]	0[b]
Brainregion=BA	-.00056	-.00016	.00023	-.00027
Brainregion=CA1	-.00040	-2.37526E-5	-.00051	-.00036
Brainregion=CA3	-.00058	.00028	-.00021	-.00024
Brainregion=LA	.00028	-.00104	.00023	.00030
Brainregion=S1L23	-.00021	.00023	-.00061	-.00022
Brainregion=S1L4	-.00024	.00030	-.00022	-.00045
Brainregion=S1L5	-.00027	9.63548E-5	-.00031	-.00031
Brainregion=V1L23	-.00077	.00083	-.00042	-.00013
Brainregion=V1L5	-.00040	.00046	-.00033	-2.98127E-5
Brainregion=mPFC L23	-1.54806E-5	.00016	-.00028	-.00018
Brainregion=mPFC L5	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=BA]	.00184	.00217	.00090	.00022
[Genotype=KO]* [Brainregion=CA1]	.00201	.00240	.00176	.00026
[Genotype=KO]* [Brainregion=CA3]	.00184	.00152	.00115	.00017
[Genotype=KO]* [Brainregion=LA]	.00152	.00415	.00109	-.00038
[Genotype=KO]* [Brainregion=S1L23]	.00115	.00109	.00151	.00024
[Genotype=KO]* [Brainregion=S1L4]	.00017	-.00038	.00024	.00055
[Genotype=KO]* [Brainregion=S1L5]	.00108	.00095	.00099	.00022
[Genotype=KO]* [Brainregion=V1L23]	.00135	.00034	.00111	6.72428E-5
[Genotype=KO]* [Brainregion=V1L5]	.00118	.00099	.00095	-4.06261E-5
[Genotype=KO]* [Brainregion=mPFC L23]	.00067	.00087	.00066	.00015
[Genotype=KO]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=BA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=CA1]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	[Genotype=KO]* [Brainregion=S1 L5]	[Genotype=KO]* [Brainregion=V1 L23]	[Genotype=KO]* [Brainregion=V1 L5]	[Genotype=KO]* [Brainregion=m PFC L23]
Intercept	.00030	.00066	.00040	.00016
Genotype=KO	-.00116	-.00156	-.00122	-.00059
Genotype=WT	0[b]	0[b]	0[b]	0[b]
Brainregion=BA	-.00024	-.00025	7.30713E-6	.00019
Brainregion=CA1	-.00045	-.00031	-.00020	-.00022
Brainregion=CA3	-.00027	-.00077	-.00040	-1.54806E-5
Brainregion=LA	9.63548E-5	.00083	.00046	.00016
Brainregion=S1L23	-.00031	-.00042	-.00033	-.00028
Brainregion=S1L4	-.00031	-.00013	-2.98127E-5	-.00018
Brainregion=S1L5	-.00030	-.00022	-.00012	-.00015
Brainregion=V1L23	-.00022	-.00157	-.00092	-3.94610E-5
Brainregion=V1L5	-.00012	-.00092	-.00057	-5.60892E-5
Brainregion=mPFC L23	-.00015	-3.94610E-5	-5.60892E-5	-.00018
Brainregion=mPFC L5	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=BA]	.00143	.00139	.00109	.00039
[Genotype=KO]* [Brainregion=CA1]	.00151	.00123	.00128	.00102
[Genotype=KO]* [Brainregion=CA3]	.00108	.00135	.00118	.00067
[Genotype=KO]* [Brainregion=LA]	.00095	.00034	.00099	.00087
[Genotype=KO]* [Brainregion=S1L23]	.00099	.00111	.00095	.00066
[Genotype=KO]* [Brainregion=S1L4]	.00022	6.72428E-5	-4.06261E-5	.00015
[Genotype=KO]* [Brainregion=S1L5]	.00123	.00088	.00073	.00048
[Genotype=KO]* [Brainregion=V1L23]	.00088	.00271	.00171	.00020
[Genotype=KO]* [Brainregion=V1L5]	.00073	.00171	.00137	.00047
[Genotype=KO]* [Brainregion=mPFC L23]	.00048	.00020	.00047	.00061
[Genotype=KO]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=BA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=CA1]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	[Genotype=KO]* [Brainregion=mPFC L5]	[Genotype=WT]* [Brainregion=BA]	[Genotype=WT]* [Brainregion=CA1]	[Genotype=WT]* [Brainregion=CA3]
Intercept	0[b]	0[b]	0[b]	0[b]
Genotype=KO	0[b]	0[b]	0[b]	0[b]
Genotype=WT	0[b]	0[b]	0[b]	0[b]
Brainregion=BA	0[b]	0[b]	0[b]	0[b]
Brainregion=CA1	0[b]	0[b]	0[b]	0[b]
Brainregion=CA3	0[b]	0[b]	0[b]	0[b]
Brainregion=LA	0[b]	0[b]	0[b]	0[b]
Brainregion=S1L23	0[b]	0[b]	0[b]	0[b]
Brainregion=S1L4	0[b]	0[b]	0[b]	0[b]
Brainregion=S1L5	0[b]	0[b]	0[b]	0[b]
Brainregion=V1L23	0[b]	0[b]	0[b]	0[b]
Brainregion=V1L5	0[b]	0[b]	0[b]	0[b]
Brainregion=mPFC L23	0[b]	0[b]	0[b]	0[b]
Brainregion=mPFC L5	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=BA]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=CA1]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=CA3]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=LA]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=S1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=S1L4]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=S1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=V1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=V1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=mPFC L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=BA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=CA1]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	[Genotype=WT]* [Brainregion=LA]	[Genotype=WT]* [Brainregion=S1 L23]	[Genotype=WT]* [Brainregion=S1 L4]	[Genotype=WT]* [Brainregion=S1 L5]
Intercept	0[b]	0[b]	0[b]	0[b]
Genotype=KO	0[b]	0[b]	0[b]	0[b]
Genotype=WT	0[b]	0[b]	0[b]	0[b]
Brainregion=BA	0[b]	0[b]	0[b]	0[b]
Brainregion=CA1	0[b]	0[b]	0[b]	0[b]
Brainregion=CA3	0[b]	0[b]	0[b]	0[b]
Brainregion=LA	0[b]	0[b]	0[b]	0[b]
Brainregion=S1L23	0[b]	0[b]	0[b]	0[b]
Brainregion=S1L4	0[b]	0[b]	0[b]	0[b]
Brainregion=S1L5	0[b]	0[b]	0[b]	0[b]
Brainregion=V1L23	0[b]	0[b]	0[b]	0[b]
Brainregion=V1L5	0[b]	0[b]	0[b]	0[b]
Brainregion=mPFC L23	0[b]	0[b]	0[b]	0[b]
Brainregion=mPFC L5	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=BA]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=CA1]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=CA3]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=LA]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=S1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=S1L4]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=S1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=V1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=V1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=mPFC L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=BA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=CA1]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	[Genotype=WT]* [Brainregion=V1 L23]	[Genotype=WT]* [Brainregion=V1 L5]	[Genotype=WT]* [Brainregion=m PFC L23]	[Genotype=WT]* [Brainregion=m PFC L5]
Intercept	0[b]	0[b]	0[b]	0[b]
Genotype=KO	0[b]	0[b]	0[b]	0[b]
Genotype=WT	0[b]	0[b]	0[b]	0[b]
Brainregion=BA	0[b]	0[b]	0[b]	0[b]
Brainregion=CA1	0[b]	0[b]	0[b]	0[b]
Brainregion=CA3	0[b]	0[b]	0[b]	0[b]
Brainregion=LA	0[b]	0[b]	0[b]	0[b]
Brainregion=S1L23	0[b]	0[b]	0[b]	0[b]
Brainregion=S1L4	0[b]	0[b]	0[b]	0[b]
Brainregion=S1L5	0[b]	0[b]	0[b]	0[b]
Brainregion=V1L23	0[b]	0[b]	0[b]	0[b]
Brainregion=V1L5	0[b]	0[b]	0[b]	0[b]
Brainregion=mPFC L23	0[b]	0[b]	0[b]	0[b]
Brainregion=mPFC L5	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=BA]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=CA1]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=CA3]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=LA]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=S1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=S1L4]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=S1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=V1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=V1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=mPFC L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=KO]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=BA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=CA1]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	Intercept	Genotype=KO	Genotype=WT	Brainregion=BA
[Genotype=WT]* [Brainregion=CA3]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=LA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L4]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	Brainregion=CA1	Brainregion=CA3	Brainregion=LA	Brainregion=S1L23
[Genotype=WT]* [Brainregion=CA3]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=LA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L4]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	Brainregion=S1 L4	Brainregion=S1 L5	Brainregion=V1 L23	Brainregion=V1 L5
[Genotype=WT]* [Brainregion=CA3]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=LA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L4]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	Brainregion=mPFC L23	Brainregion=mPFC L5	[Genotype=KO]* [Brainregion=BA]	[Genotype=KO]* [Brainregion=CA1]
[Genotype=WT]* [Brainregion=CA3]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=LA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L4]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	[Genotype=KO]* [Brainregion=CA3]	[Genotype=KO]* [Brainregion=LA]	[Genotype=KO]* [Brainregion=S1L23]	[Genotype=KO]* [Brainregion=S1L4]
[Genotype=WT]* [Brainregion=CA3]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=LA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L4]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	[Genotype=KO]* [Brainregion=S1L5]	[Genotype=KO]* [Brainregion=V1L23]	[Genotype=KO]* [Brainregion=V1L5]	[Genotype=KO]* [Brainregion=mPFC L23]
[Genotype=WT]* [Brainregion=CA3]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=LA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L4]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	[Genotype=KO]* [Brainregion=mPFC L5]	[Genotype=WT]* [Brainregion=BA]	[Genotype=WT]* [Brainregion=CA1]	[Genotype=WT]* [Brainregion=CA3]
[Genotype=WT]* [Brainregion=CA3]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=LA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L4]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	[Genotype=WT]* [Brainregion=LA]	[Genotype=WT]* [Brainregion=S1L23]	[Genotype=WT]* [Brainregion=S1L4]	[Genotype=WT]* [Brainregion=S1L5]
[Genotype=WT]* [Brainregion=CA3]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=LA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L4]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]

Covariances of Fixed Coefficients[a]

	[Genotype=WT]* [Brainregion=V1 L23]	[Genotype=WT]* [Brainregion=V1 L5]	[Genotype=WT]* [Brainregion=m PFC L23]	[Genotype=WT]* [Brainregion=m PFC L5]
[Genotype=WT]* [Brainregion=CA3]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=LA]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L4]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=S1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=V1L5]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L23]	0[b]	0[b]	0[b]	0[b]
[Genotype=WT]* [Brainregion=mPFC L5]	0[b]	0[b]	0[b]	0[b]

Probability distribution: Normal
Link function: Log

a. Target: AIS length

b. One or both coefficients are redundant.

Correlations of Fixed Coefficients[a]

	Intercept	Genotype=KO	Genotype=WT	Brainregion=BA
Intercept	1.000	-.537	.[b]	-.200
Genotype=KO	-.537	1.000	.[b]	.107
Genotype=WT	.[b]	.[b]	.[b]	.[b]
Brainregion=BA	-.200	.107	.[b]	1.000
Brainregion=CA1	-.794	.426	.[b]	.328
Brainregion=CA3	-.825	.443	.[b]	.656
Brainregion=LA	.495	-.266	.[b]	.139
Brainregion=S1L23	-.811	.435	.[b]	-.260
Brainregion=S1L4	-.578	.310	.[b]	.359
Brainregion=S1L5	-.812	.436	.[b]	.396
Brainregion=V1L23	-.784	.421	.[b]	.175
Brainregion=V1L5	-.790	.424	.[b]	-.009
Brainregion=mPFC L23	-.558	.299	.[b]	-.402
Brainregion=mPFC L5	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]*[Brainregion=BA]	.127	-.706	.[b]	-.638
[Genotype=KO]*[Brainregion=CA1]	.402	-.866	.[b]	-.166
[Genotype=KO]*[Brainregion=CA3]	.463	-.841	.[b]	-.368
[Genotype=KO]*[Brainregion=LA]	-.247	-.485	.[b]	-.069
[Genotype=KO]*[Brainregion=S1L23]	.514	-.893	.[b]	.165
[Genotype=KO]*[Brainregion=S1L4]	.524	-.274	.[b]	-.326
[Genotype=KO]*[Brainregion=S1L5]	.402	-.842	.[b]	-.196
[Genotype=KO]*[Brainregion=V1L23]	.597	-.763	.[b]	-.133
[Genotype=KO]*[Brainregion=V1L5]	.510	-.840	.[b]	.006
[Genotype=KO]*[Brainregion=mPFC L23]	.306	-.614	.[b]	.221
[Genotype=KO]*[Brainregion=mPFC L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]*[Brainregion=BA]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]*[Brainregion=CA1]	.[b]	.[b]	.[b]	.[b]

Correlations of Fixed Coefficients[a]

	Brainregion=CA1	Brainregion=CA3	Brainregion=LA	Brainregion=S1L23
Intercept	-.794	-.825	.495	-.811
Genotype=KO	.426	.443	-.266	.435
Genotype=WT	.b	.b	.b	.b
Brainregion=BA	.328	.656	.139	-.260
Brainregion=CA1	1.000	.613	.027	.777
Brainregion=CA3	.613	1.000	-.363	.362
Brainregion=LA	.027	-.363	1.000	-.292
Brainregion=S1L23	.777	.362	-.292	1.000
Brainregion=S1L4	.636	.477	-.431	.414
Brainregion=S1L5	.957	.659	-.173	.716
Brainregion=V1L23	.290	.805	-.648	.434
Brainregion=V1L5	.315	.700	-.604	.566
Brainregion=mPFC L23	.600	.048	-.373	.827
Brainregion=mPFC L5	.b	.b	.b	.b
[Genotype=KO]*[Brainregion=BA]	-.209	-.419	-.088	.166
[Genotype=KO]*[Brainregion=CA1]	-.506	-.310	-.014	-.393
[Genotype=KO]*[Brainregion=CA3]	-.344	-.561	.204	-.203
[Genotype=KO]*[Brainregion=LA]	-.014	.181	-.500	.146
[Genotype=KO]*[Brainregion=S1L23]	-.493	-.230	.185	-.634
[Genotype=KO]*[Brainregion=S1L4]	-.577	-.433	.391	-.376
[Genotype=KO]*[Brainregion=S1L5]	-.473	-.326	.085	-.354
[Genotype=KO]*[Brainregion=V1L23]	-.221	-.613	.493	-.331
[Genotype=KO]*[Brainregion=V1L5]	-.203	-.452	.390	-.366
[Genotype=KO]*[Brainregion=mPFC L23]	-.330	-.026	.204	-.454
[Genotype=KO]*[Brainregion=mPFC L5]	.b	.b	.b	.b
[Genotype=WT]*[Brainregion=BA]	.b	.b	.b	.b
[Genotype=WT]*[Brainregion=CA1]	.b	.b	.b	.b

Correlations of Fixed Coefficients[a]

	Brainregion=S1 L4	Brainregion=S1 L5	Brainregion=V1 L23	Brainregion=V1 L5
Intercept	-.578	-.812	-.784	-.790
Genotype=KO	.310	.436	.421	.424
Genotype=WT	.[b]	.[b]	.[b]	.[b]
Brainregion=BA	.359	.396	.175	-.009
Brainregion=CA1	.636	.957	.290	.315
Brainregion=CA3	.477	.659	.805	.700
Brainregion=LA	-.431	-.173	-.648	-.604
Brainregion=S1L23	.414	.716	.434	.566
Brainregion=S1L4	1.000	.827	.152	.058
Brainregion=S1L5	.827	1.000	.315	.293
Brainregion=V1L23	.152	.315	1.000	.972
Brainregion=V1L5	.058	.293	.972	1.000
Brainregion=mPFC L23	.642	.651	.074	.174
Brainregion=mPFC L5	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=BA]	-.229	-.252	-.111	.006
[Genotype=KO]* [Brainregion=CA1]	-.322	-.485	-.147	-.159
[Genotype=KO]* [Brainregion=CA3]	-.268	-.370	-.452	-.393
[Genotype=KO]* [Brainregion=LA]	.215	.086	.324	.302
[Genotype=KO]* [Brainregion=S1L23]	-.263	-.454	-.275	-.359
[Genotype=KO]* [Brainregion=S1L4]	-.907	-.750	-.138	-.053
[Genotype=KO]* [Brainregion=S1L5]	-.409	-.495	-.156	-.145
[Genotype=KO]* [Brainregion=V1L23]	-.116	-.239	-.761	-.740
[Genotype=KO]* [Brainregion=V1L5]	-.038	-.190	-.628	-.646
[Genotype=KO]* [Brainregion=mPFC L23]	-.352	-.357	-.040	-.095
[Genotype=KO]* [Brainregion=mPFC L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=BA]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=CA1]	.[b]	.[b]	.[b]	.[b]

Correlations of Fixed Coefficients[a]

	Brainregion=mPFC L23	Brainregion=mPFC L5	[Genotype=KO]*[Brainregion=BA]	[Genotype=KO]*[Brainregion=CA1]
Intercept	-.558	.[b]	.127	.402
Genotype=KO	.299	.[b]	-.706	-.866
Genotype=WT	.[b]	.[b]	.[b]	.[b]
Brainregion=BA	-.402	.[b]	-.638	-.166
Brainregion=CA1	.600	.[b]	-.209	-.506
Brainregion=CA3	.048	.[b]	-.419	-.310
Brainregion=LA	-.373	.[b]	-.088	-.014
Brainregion=S1L23	.827	.[b]	.166	-.393
Brainregion=S1L4	.642	.[b]	-.229	-.322
Brainregion=S1L5	.651	.[b]	-.252	-.485
Brainregion=V1L23	.074	.[b]	-.111	-.147
Brainregion=V1L5	.174	.[b]	.006	-.159
Brainregion=mPFC L23	1.000	.[b]	.257	-.304
Brainregion=mPFC L5	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]*[Brainregion=BA]	.257	.[b]	1.000	.690
[Genotype=KO]*[Brainregion=CA1]	-.304	.[b]	.690	1.000
[Genotype=KO]*[Brainregion=CA3]	-.027	.[b]	.772	.881
[Genotype=KO]*[Brainregion=LA]	.186	.[b]	.608	.700
[Genotype=KO]*[Brainregion=S1L23]	-.524	.[b]	.417	.853
[Genotype=KO]*[Brainregion=S1L4]	-.582	.[b]	.166	.208
[Genotype=KO]*[Brainregion=S1L5]	-.322	.[b]	.735	.812
[Genotype=KO]*[Brainregion=V1L23]	-.056	.[b]	.481	.445
[Genotype=KO]*[Brainregion=V1L5]	-.112	.[b]	.529	.653
[Genotype=KO]*[Brainregion=mPFC L23]	-.549	.[b]	.288	.782
[Genotype=KO]*[Brainregion=mPFC L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]*[Brainregion=BA]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]*[Brainregion=CA1]	.[b]	.[b]	.[b]	.[b]

Correlations of Fixed Coefficients[a]

	[Genotype=KO]* [Brainregion=CA3]	[Genotype=KO]* [Brainregion=LA]	[Genotype=KO]* [Brainregion=S1L23]	[Genotype=KO]* [Brainregion=S1L4]
Intercept	.463	-.247	.514	.524
Genotype=KO	-.841	-.485	-.893	-.274
Genotype=WT	.[b]	.[b]	.[b]	.[b]
Brainregion=BA	-.368	-.069	.165	-.326
Brainregion=CA1	-.344	-.014	-.493	-.577
Brainregion=CA3	-.561	.181	-.230	-.433
Brainregion=LA	.204	-.500	.185	.391
Brainregion=S1L23	-.203	.146	-.634	-.376
Brainregion=S1L4	-.268	.215	-.263	-.907
Brainregion=S1L5	-.370	.086	-.454	-.750
Brainregion=V1L23	-.452	.324	-.275	-.138
Brainregion=V1L5	-.393	.302	-.359	-.053
Brainregion=mPFC L23	-.027	.186	-.524	-.582
Brainregion=mPFC L5	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=BA]	.772	.608	.417	.166
[Genotype=KO]* [Brainregion=CA1]	.881	.700	.853	.208
[Genotype=KO]* [Brainregion=CA3]	1.000	.550	.689	.165
[Genotype=KO]* [Brainregion=LA]	.550	1.000	.438	-.250
[Genotype=KO]* [Brainregion=S1L23]	.689	.438	1.000	.264
[Genotype=KO]* [Brainregion=S1L4]	.165	-.250	.264	1.000
[Genotype=KO]* [Brainregion=S1L5]	.722	.423	.729	.262
[Genotype=KO]* [Brainregion=V1L23]	.606	.101	.548	.055
[Genotype=KO]* [Brainregion=V1L5]	.747	.417	.664	-.047
[Genotype=KO]* [Brainregion=mPFC L23]	.632	.550	.694	.264
[Genotype=KO]* [Brainregion=mPFC L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=BA]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=CA1]	.[b]	.[b]	.[b]	.[b]

Correlations of Fixed Coefficients[a]

	[Genotype=KO]* [Brainregion=S1 L5]	[Genotype=KO]* [Brainregion=V1 L23]	[Genotype=KO]* [Brainregion=V1 L5]	[Genotype=KO]* [Brainregion=m PFC L23]
Intercept	.402	.597	.510	.306
Genotype=KO	-.842	-.763	-.840	-.614
Genotype=WT	.b	.b	.b	.b
Brainregion=BA	-.196	-.133	.006	.221
Brainregion=CA1	-.473	-.221	-.203	-.330
Brainregion=CA3	-.326	-.613	-.452	-.026
Brainregion=LA	.085	.493	.390	.204
Brainregion=S1L23	-.354	-.331	-.366	-.454
Brainregion=S1L4	-.409	-.116	-.038	-.352
Brainregion=S1L5	-.495	-.239	-.190	-.357
Brainregion=V1L23	-.156	-.761	-.628	-.040
Brainregion=V1L5	-.145	-.740	-.646	-.095
Brainregion=mPFC L23	-.322	-.056	-.112	-.549
Brainregion=mPFC L5	.b	.b	.b	.b
[Genotype=KO]* [Brainregion=BA]	.735	.481	.529	.288
[Genotype=KO]* [Brainregion=CA1]	.812	.445	.653	.782
[Genotype=KO]* [Brainregion=CA3]	.722	.606	.747	.632
[Genotype=KO]* [Brainregion=LA]	.423	.101	.417	.550
[Genotype=KO]* [Brainregion=S1L23]	.729	.548	.664	.694
[Genotype=KO]* [Brainregion=S1L4]	.262	.055	-.047	.264
[Genotype=KO]* [Brainregion=S1L5]	1.000	.480	.565	.552
[Genotype=KO]* [Brainregion=V1L23]	.480	1.000	.889	.158
[Genotype=KO]* [Brainregion=V1L5]	.565	.889	1.000	.516
[Genotype=KO]* [Brainregion=mPFC L23]	.552	.158	.516	1.000
[Genotype=KO]* [Brainregion=mPFC L5]	.b	.b	.b	.b
[Genotype=WT]* [Brainregion=BA]	.b	.b	.b	.b
[Genotype=WT]* [Brainregion=CA1]	.b	.b	.b	.b

Correlations of Fixed Coefficients[a]

	[Genotype=KO]* [Brainregion=mPFC L5]	[Genotype=WT]* [Brainregion=BA]	[Genotype=WT]* [Brainregion=CA1]	[Genotype=WT]* [Brainregion=CA3]
Intercept	.b	.b	.b	.b
Genotype=KO	.b	.b	.b	.b
Genotype=WT	.b	.b	.b	.b
Brainregion=BA	.b	.b	.b	.b
Brainregion=CA1	.b	.b	.b	.b
Brainregion=CA3	.b	.b	.b	.b
Brainregion=LA	.b	.b	.b	.b
Brainregion=S1L23	.b	.b	.b	.b
Brainregion=S1L4	.b	.b	.b	.b
Brainregion=S1L5	.b	.b	.b	.b
Brainregion=V1L23	.b	.b	.b	.b
Brainregion=V1L5	.b	.b	.b	.b
Brainregion=mPFC L23	.b	.b	.b	.b
Brainregion=mPFC L5	.b	.b	.b	.b
[Genotype=KO]* [Brainregion=BA]	.b	.b	.b	.b
[Genotype=KO]* [Brainregion=CA1]	.b	.b	.b	.b
[Genotype=KO]* [Brainregion=CA3]	.b	.b	.b	.b
[Genotype=KO]* [Brainregion=LA]	.b	.b	.b	.b
[Genotype=KO]* [Brainregion=S1L23]	.b	.b	.b	.b
[Genotype=KO]* [Brainregion=S1L4]	.b	.b	.b	.b
[Genotype=KO]* [Brainregion=S1L5]	.b	.b	.b	.b
[Genotype=KO]* [Brainregion=V1L23]	.b	.b	.b	.b
[Genotype=KO]* [Brainregion=V1L5]	.b	.b	.b	.b
[Genotype=KO]* [Brainregion=mPFC L23]	.b	.b	.b	.b
[Genotype=KO]* [Brainregion=mPFC L5]	.b	.b	.b	.b
[Genotype=WT]* [Brainregion=BA]	.b	.b	.b	.b
[Genotype=WT]* [Brainregion=CA1]	.b	.b	.b	.b

Correlations of Fixed Coefficients[a]

	[Genotype=WT]* [Brainregion=LA]	[Genotype=WT]* [Brainregion=S1 L23]	[Genotype=WT]* [Brainregion=S1 L4]	[Genotype=WT]* [Brainregion=S1 L5]
Intercept	.[b]	.[b]	.[b]	.[b]
Genotype=KO	.[b]	.[b]	.[b]	.[b]
Genotype=WT	.[b]	.[b]	.[b]	.[b]
Brainregion=BA	.[b]	.[b]	.[b]	.[b]
Brainregion=CA1	.[b]	.[b]	.[b]	.[b]
Brainregion=CA3	.[b]	.[b]	.[b]	.[b]
Brainregion=LA	.[b]	.[b]	.[b]	.[b]
Brainregion=S1L23	.[b]	.[b]	.[b]	.[b]
Brainregion=S1L4	.[b]	.[b]	.[b]	.[b]
Brainregion=S1L5	.[b]	.[b]	.[b]	.[b]
Brainregion=V1L23	.[b]	.[b]	.[b]	.[b]
Brainregion=V1L5	.[b]	.[b]	.[b]	.[b]
Brainregion=mPFC L23	.[b]	.[b]	.[b]	.[b]
Brainregion=mPFC L5	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=BA]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=CA1]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=CA3]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=LA]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=S1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=S1L4]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=S1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=V1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=V1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=mPFC L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=mPFC L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=BA]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=CA1]	.[b]	.[b]	.[b]	.[b]

Correlations of Fixed Coefficients[a]

	[Genotype=WT]* [Brainregion=V1 L23]	[Genotype=WT]* [Brainregion=V1 L5]	[Genotype=WT]* [Brainregion=m PFC L23]	[Genotype=WT]* [Brainregion=m PFC L5]
Intercept	.[b]	.[b]	.[b]	.[b]
Genotype=KO	.[b]	.[b]	.[b]	.[b]
Genotype=WT	.[b]	.[b]	.[b]	.[b]
Brainregion=BA	.[b]	.[b]	.[b]	.[b]
Brainregion=CA1	.[b]	.[b]	.[b]	.[b]
Brainregion=CA3	.[b]	.[b]	.[b]	.[b]
Brainregion=LA	.[b]	.[b]	.[b]	.[b]
Brainregion=S1L23	.[b]	.[b]	.[b]	.[b]
Brainregion=S1L4	.[b]	.[b]	.[b]	.[b]
Brainregion=S1L5	.[b]	.[b]	.[b]	.[b]
Brainregion=V1L23	.[b]	.[b]	.[b]	.[b]
Brainregion=V1L5	.[b]	.[b]	.[b]	.[b]
Brainregion=mPFC L23	.[b]	.[b]	.[b]	.[b]
Brainregion=mPFC L5	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=BA]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=CA1]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=CA3]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=LA]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=S1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=S1L4]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=S1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=V1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=V1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=mPFC L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=KO]* [Brainregion=mPFC L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=BA]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=CA1]	.[b]	.[b]	.[b]	.[b]

Correlations of Fixed Coefficients[a]

	Intercept	Genotype=KO	Genotype=WT	Brainregion=BA
[Genotype=WT]*[Brainregion=CA3]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=LA]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=S1L23]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=S1L4]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=S1L5]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=V1L23]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=V1L5]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=mPFC L23]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=mPFC L5]	b .	b .	b .	b .

Correlations of Fixed Coefficients[a]

	Brainregion=CA1	Brainregion=CA3	Brainregion=LA	Brainregion=S1L23
[Genotype=WT]*[Brainregion=CA3]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=LA]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=S1L23]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=S1L4]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=S1L5]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=V1L23]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=V1L5]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=mPFC L23]	b .	b .	b .	b .
[Genotype=WT]*[Brainregion=mPFC L5]	b .	b .	b .	b .

Correlations of Fixed Coefficients[a]

	Brainregion=S1 L4	Brainregion=S1 L5	Brainregion=V1 L23	Brainregion=V1 L5
[Genotype=WT]* [Brainregion=CA3]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=LA]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=S1L23]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=S1L4]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=S1L5]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=V1L23]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=V1L5]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=mPFC L23]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=mPFC L5]	b .	b .	b .	b .

Correlations of Fixed Coefficients[a]

	Brainregion=mP FC L23	Brainregion=mP FC L5	[Genotype=KO]* [Brainregion=BA]	[Genotype=KO]* [Brainregion=CA 1]
[Genotype=WT]* [Brainregion=CA3]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=LA]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=S1L23]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=S1L4]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=S1L5]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=V1L23]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=V1L5]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=mPFC L23]	b .	b .	b .	b .
[Genotype=WT]* [Brainregion=mPFC L5]	b .	b .	b .	b .

Correlations of Fixed Coefficients[a]

	[Genotype=KO]* [Brainregion=CA3]	[Genotype=KO]* [Brainregion=LA]	[Genotype=KO]* [Brainregion=S1L23]	[Genotype=KO]* [Brainregion=S1L4]
[Genotype=WT]* [Brainregion=CA3]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=LA]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L4]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=V1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=V1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=mPFC L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=mPFC L5]	.[b]	.[b]	.[b]	.[b]

Correlations of Fixed Coefficients[a]

	[Genotype=KO]* [Brainregion=S1L5]	[Genotype=KO]* [Brainregion=V1L23]	[Genotype=KO]* [Brainregion=V1L5]	[Genotype=KO]* [Brainregion=mPFC L23]
[Genotype=WT]* [Brainregion=CA3]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=LA]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L4]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=V1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=V1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=mPFC L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=mPFC L5]	.[b]	.[b]	.[b]	.[b]

Correlations of Fixed Coefficients[a]

	[Genotype=KO]* [Brainregion=mPFC L5]	[Genotype=WT]* [Brainregion=BA]	[Genotype=WT]* [Brainregion=CA1]	[Genotype=WT]* [Brainregion=CA3]
[Genotype=WT]* [Brainregion=CA3]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=LA]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L4]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=V1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=V1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=mPFC L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=mPFC L5]	.[b]	.[b]	.[b]	.[b]

Correlations of Fixed Coefficients[a]

	[Genotype=WT]* [Brainregion=LA]	[Genotype=WT]* [Brainregion=S1L23]	[Genotype=WT]* [Brainregion=S1L4]	[Genotype=WT]* [Brainregion=S1L5]
[Genotype=WT]* [Brainregion=CA3]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=LA]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L4]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=V1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=V1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=mPFC L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=mPFC L5]	.[b]	.[b]	.[b]	.[b]

Correlations of Fixed Coefficients[a]

	[Genotype=WT]* [Brainregion=V1 L23]	[Genotype=WT]* [Brainregion=V1 L5]	[Genotype=WT]* [Brainregion=m PFC L23]	[Genotype=WT]* [Brainregion=m PFC L5]
[Genotype=WT]* [Brainregion=CA3]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=LA]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L4]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=S1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=V1L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=V1L5]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=mPFC L23]	.[b]	.[b]	.[b]	.[b]
[Genotype=WT]* [Brainregion=mPFC L5]	.[b]	.[b]	.[b]	.[b]

Probability distribution: Normal
Link function: Log

a. Target: AIS length

b. One or both coefficients are redundant.

Random Effect Covariances

Random Effect Block 1

Random Effect Block	Intercept	Age=P27	Age=P28
Intercept	.000	.000	.000
Age=P27	.000	.000	.000
Age=P28	.000	.000	.000

Covariance Structure: Variance components
Subject Specification: Parent * Sample_ID

Covariance Parameters

Covariance Parameters Summary

Covariance Parameters	Residual Effect	1
	Random Effects	2
Design Matrix Columns	Fixed Effects	36
	Random Effects	3[a]
Common Subjects		12

Common subjects are based on the subject specifications for the residual and random effects and are used to chunk the data for better performance.

  a. This is the number of columns per common subject.

Residual Effect

Residual Effect	Estimate	Std. Error	Z	Sig.	95% Confidence Interval Lower	Upper
Variance	18.925	.249	76.079	<.001	18.444	19.419

Covariance Structure: Scaled Identity
Subject Specification: (None)

Random Effect

Random Effect Covariance	Estimate	Std. Error	Z	Sig.	95% Confidence Interval Lower	Upper
Var(Intercept)	.000	.000	1.808	.071	.000	.001
Var(Age)	8.469E-5[a]	.	.	.	.	.

Covariance Structure: Variance components
Subject Specification: Parent * Sample_ID

  a. This parameter is redundant.

Estimated Marginal Means for Top Significant Fixed Effects

AIS length by Genotype * Bra…

AIS length by Brain region
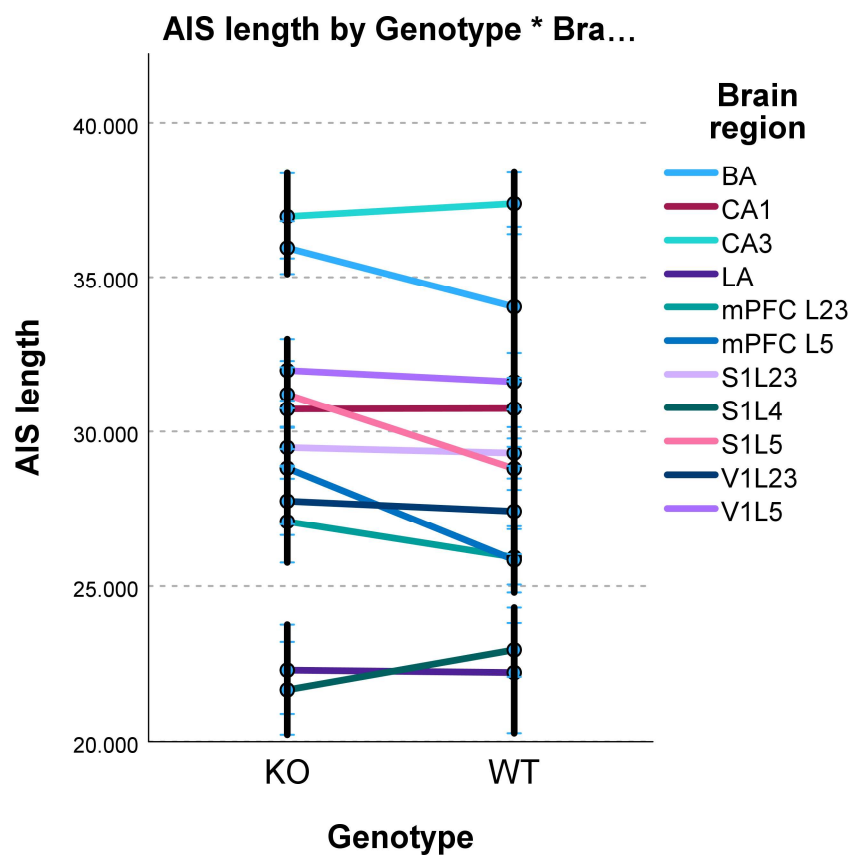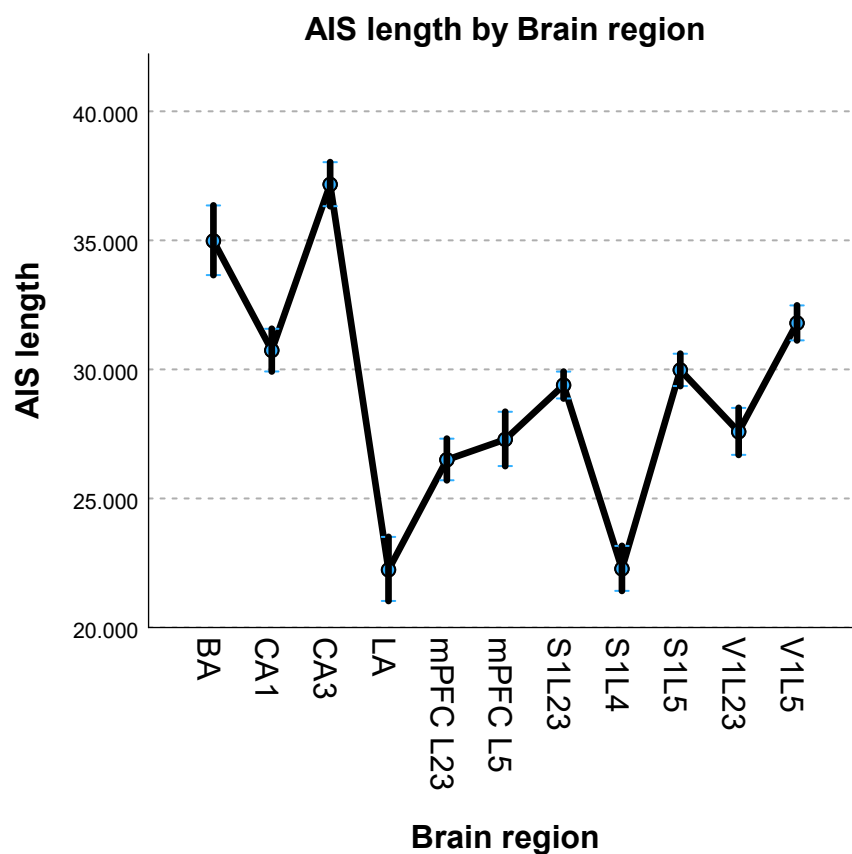
Estimated Means: Grand Mean Estimates[a]

Mean	Std. Error	95% Confidence Interval	
		Lower	Upper
28.741	.207	28.338	29.150

a. Target: AIS length

Estimated Means: Genotype * Brain region

Estimates

Genotype	Brain region	Mean	Std. Error	95% Confidence Interval Lower	95% Confidence Interval Upper
KO	BA	35.945	.436	35.100	36.811
	CA1	30.729	.676	29.431	32.083
	CA3	36.959	.703	35.607	38.363
	LA	22.274	.734	20.881	23.759
	S1L23	29.481	.319	28.861	30.114
	S1L4	21.646	.753	20.219	23.174
	S1L5	31.201	.543	30.153	32.284
	V1L23	27.749	.574	26.647	28.897
	V1L5	31.978	.507	30.999	32.988
	mPFC L23	27.082	.692	25.759	28.472
	mPFC L5	28.813	.956	27.000	30.749
WT	BA	34.037	1.274	31.629	36.628
	CA1	30.743	.503	29.773	31.745
	CA3	37.376	.510	36.389	38.389
	LA	22.197	1.030	20.267	24.310
	S1L23	29.299	.424	28.480	30.142
	S1L4	22.920	.447	22.060	23.813
	S1L5	28.798	.354	28.112	29.501
	V1L23	27.421	.728	26.030	28.885
	V1L5	31.613	.469	30.707	32.546
	mPFC L23	25.928	.456	25.048	26.838
	mPFC L5	25.841	.545	24.794	26.932

Estimates

AIS length

40.000
35.000
30.000
25.000
20.000

KO   WT

Genotype

Brain region

— BA
— CA1
— CA3
— LA
— mPFC L23
— mPFC L5
— S1L23
— S1L4
— S1L5
— V1L23
— V1L5
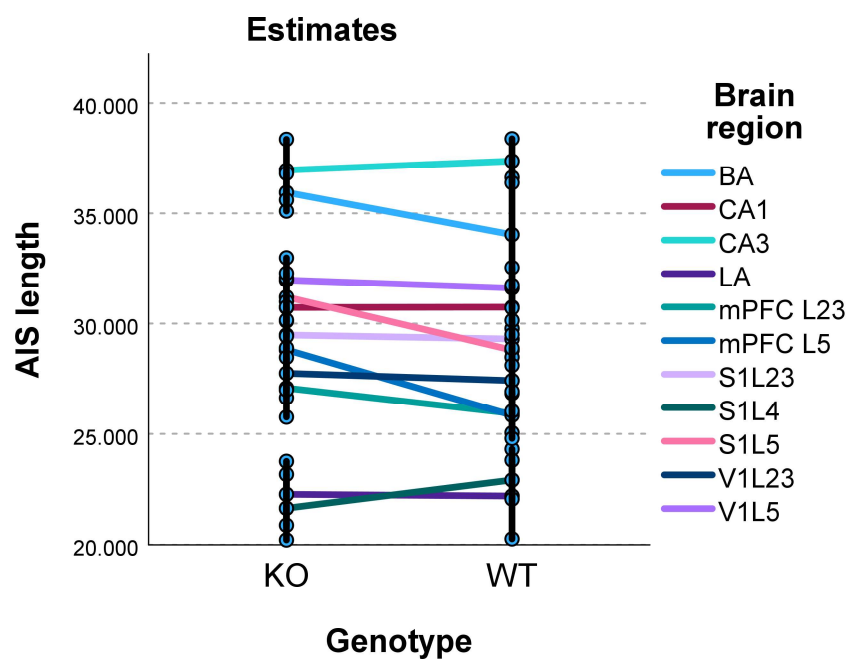
Pairwise Contrasts

Brain region	Genotype Pairwise Contrasts	Contrast Estimate	Std. Error	t	df
BA	KO - WT	1.908	1.347	1.417	11586
	WT - KO	-1.908	1.347	-1.417	11586
CA1	KO - WT	-.015	.843	-.018	11586
	WT - KO	.015	.843	.018	11586
CA3	KO - WT	-.416	.868	-.480	11586
	WT - KO	.416	.868	.480	11586
LA	KO - WT	.077	1.264	.061	11586
	WT - KO	-.077	1.264	-.061	11586
S1L23	KO - WT	.182	.531	.342	11586
	WT - KO	-.182	.531	-.342	11586
S1L4	KO - WT	-1.274	.876	-1.454	11586
	WT - KO	1.274	.876	1.454	11586
S1L5	KO - WT	2.403	.649	3.703	11586
	WT - KO	-2.403	.649	-3.703	11586
V1L23	KO - WT	.329	.927	.354	11586
	WT - KO	-.329	.927	-.354	11586
V1L5	KO - WT	.365	.691	.528	11586
	WT - KO	-.365	.691	-.528	11586
mPFC L23	KO - WT	1.154	.829	1.393	11586
	WT - KO	-1.154	.829	-1.393	11586
mPFC L5	KO - WT	2.973	1.100	2.702	11586
	WT - KO	-2.973	1.100	-2.702	11586

Pairwise Contrasts

Brain region	Genotype Pairwise Contrasts	Adj. Sig.	95% Confidence Interval Lower	Upper
BA	KO - WT	.156	-.731	4.548
	WT - KO	.156	-4.548	.731
CA1	KO - WT	.986	-1.667	1.637
	WT - KO	.986	-1.637	1.667
CA3	KO - WT	.632	-2.119	1.286
	WT - KO	.632	-1.286	2.119
LA	KO - WT	.952	-2.402	2.555
	WT - KO	.952	-2.555	2.402
S1L23	KO - WT	.732	-.859	1.222
	WT - KO	.732	-1.222	.859
S1L4	KO - WT	.146	-2.990	.443
	WT - KO	.146	-.443	2.990
S1L5	KO - WT	.000	1.131	3.675
	WT - KO	.000	-3.675	-1.131
V1L23	KO - WT	.723	-1.488	2.145
	WT - KO	.723	-2.145	1.488
V1L5	KO - WT	.597	-.989	1.719
	WT - KO	.597	-1.719	.989
mPFC L23	KO - WT	.164	-.470	2.779
	WT - KO	.164	-2.779	.470
mPFC L5	KO - WT	.007	.816	5.129
	WT - KO	.007	-5.129	-.816

The sequential Bonferroni adjusted significance level is .05.
Confidence interval bounds are approximate.

Pairwise Contrasts

Target: AIS length

Not Significant
Significant

Brain region

The sequential Bonferroni adjusted significance level is .05.
Confidence interval bounds are approximate.

Overall Test Results

Brain region	F	df1	df2	Sig.
BA	2.009	1	11586	.156
CA1	.000	1	11586	.986
CA3	.230	1	11586	.632
LA	.004	1	11586	.952
S1L23	.117	1	11586	.732
S1L4	2.115	1	11586	.146
S1L5	13.715	1	11586	<.001
V1L23	.126	1	11586	.723
V1L5	.279	1	11586	.597
mPFC L23	1.939	1	11586	.164
mPFC L5	7.300	1	11586	.007