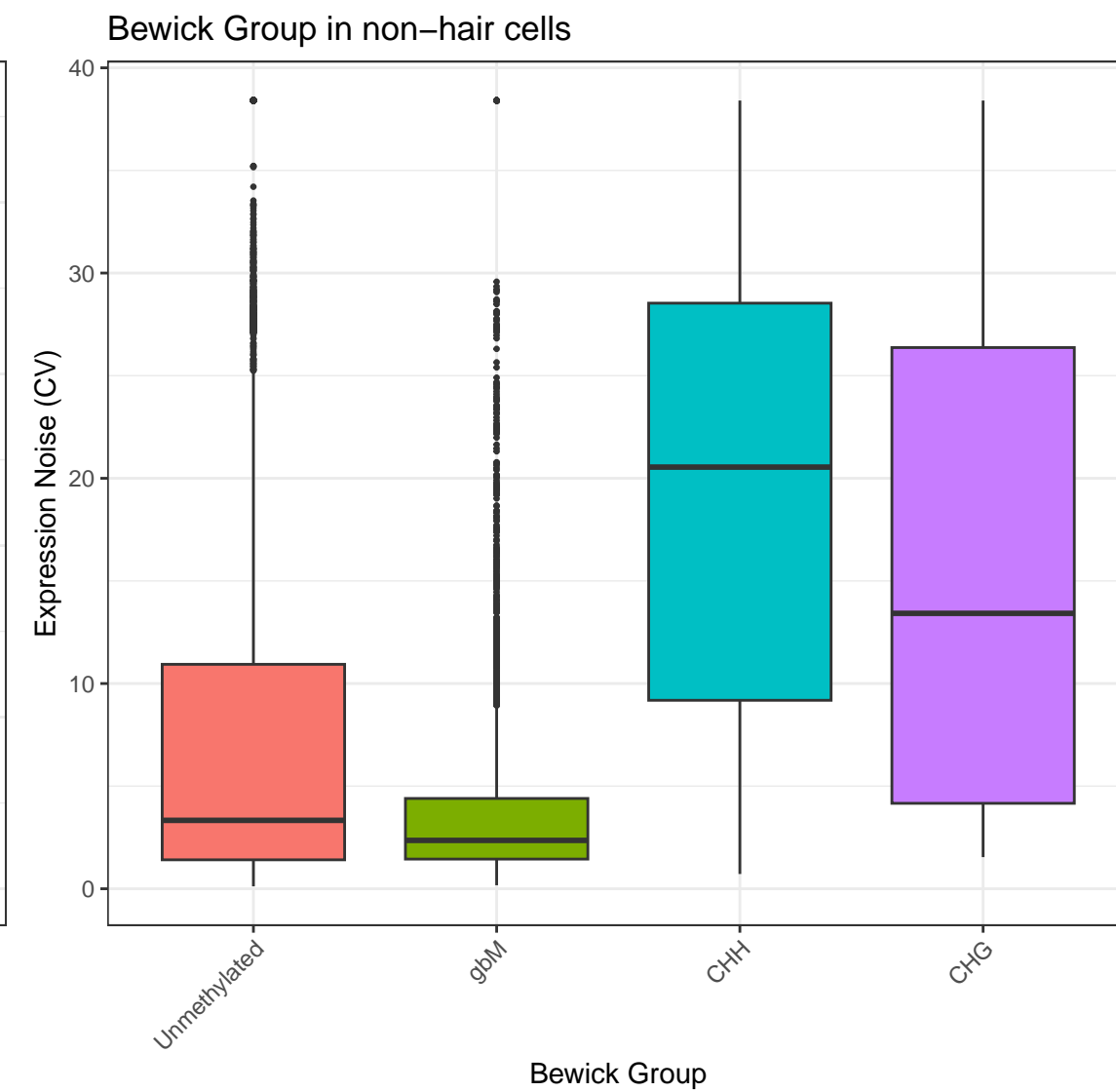
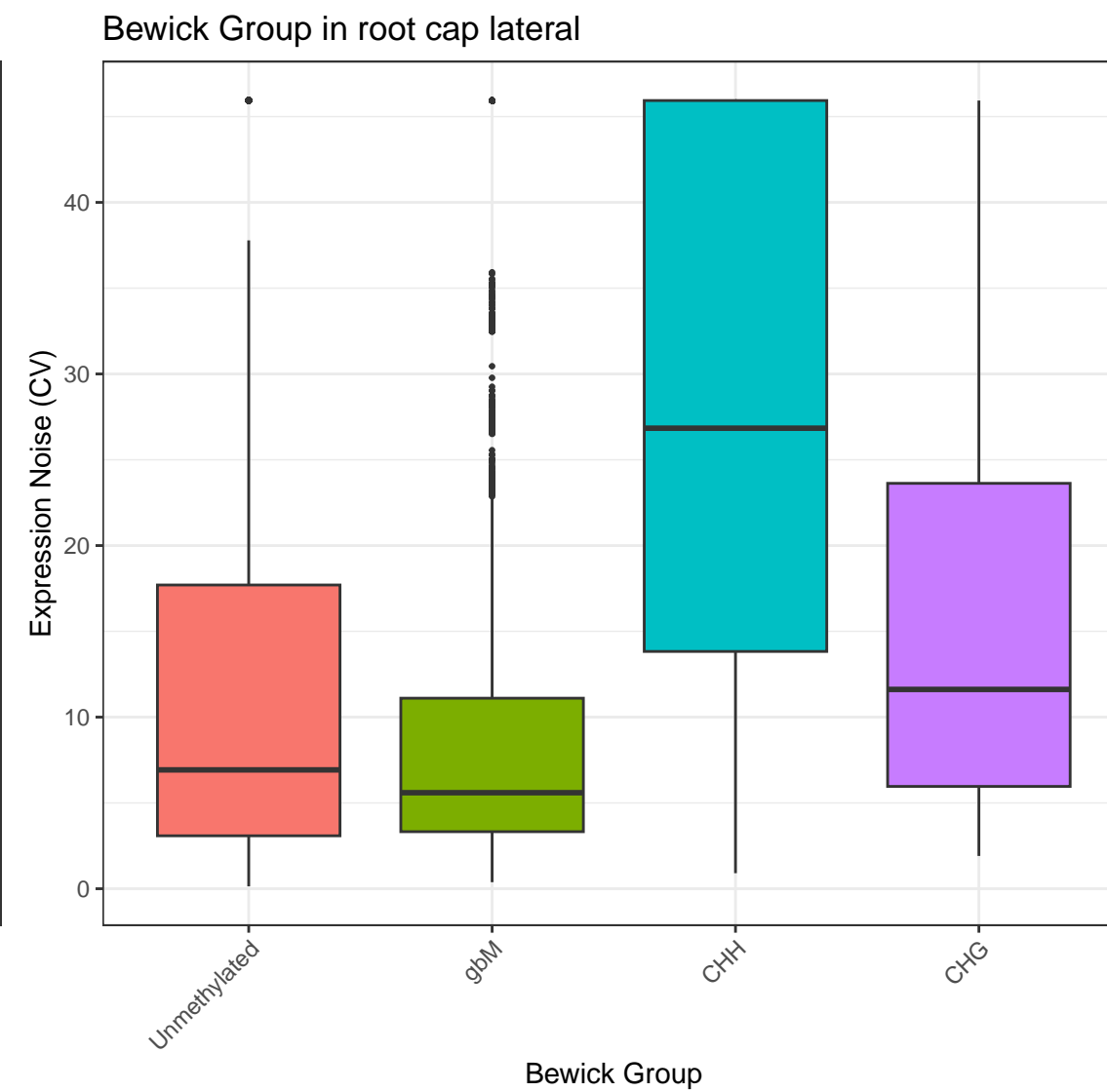
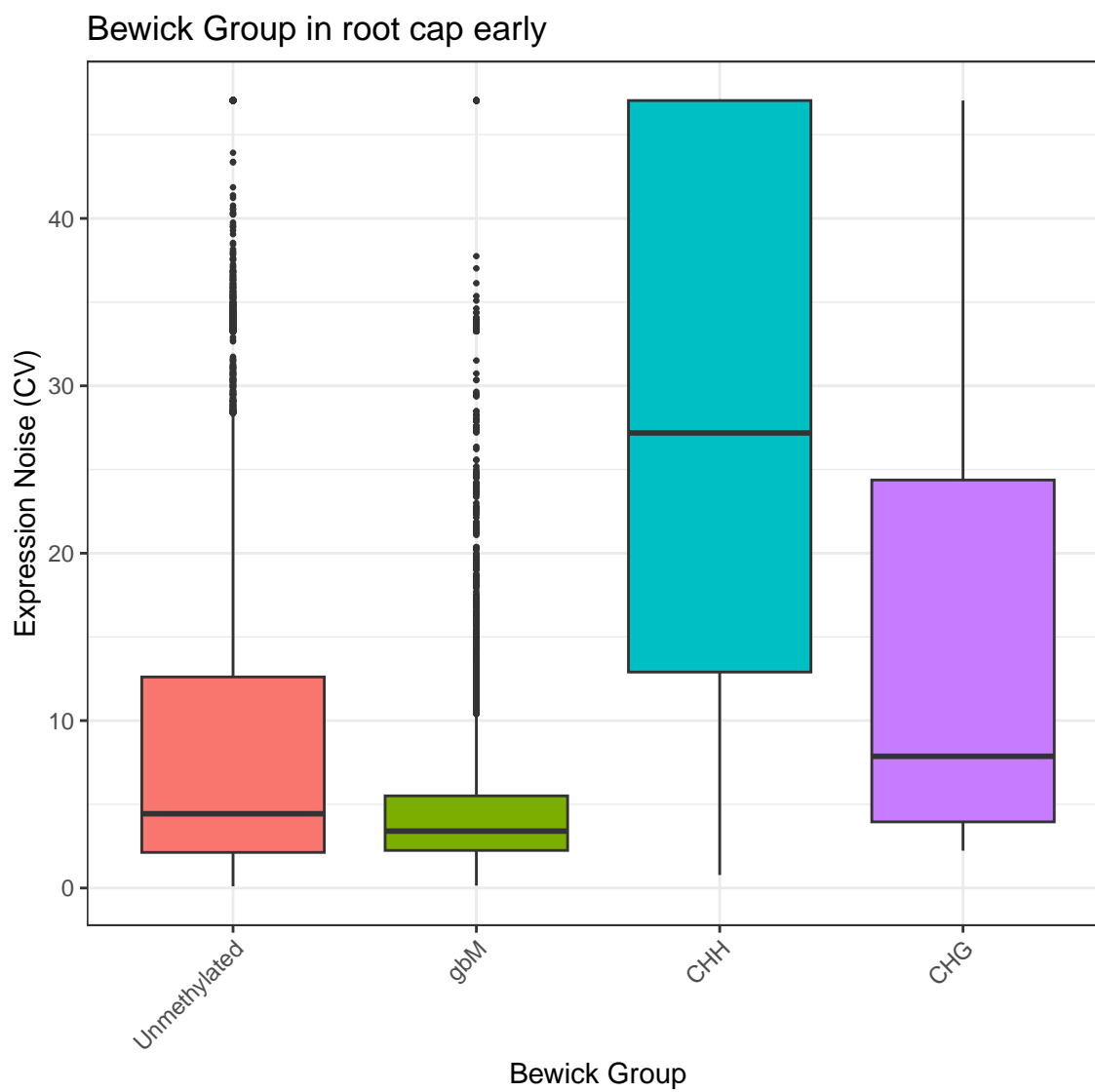
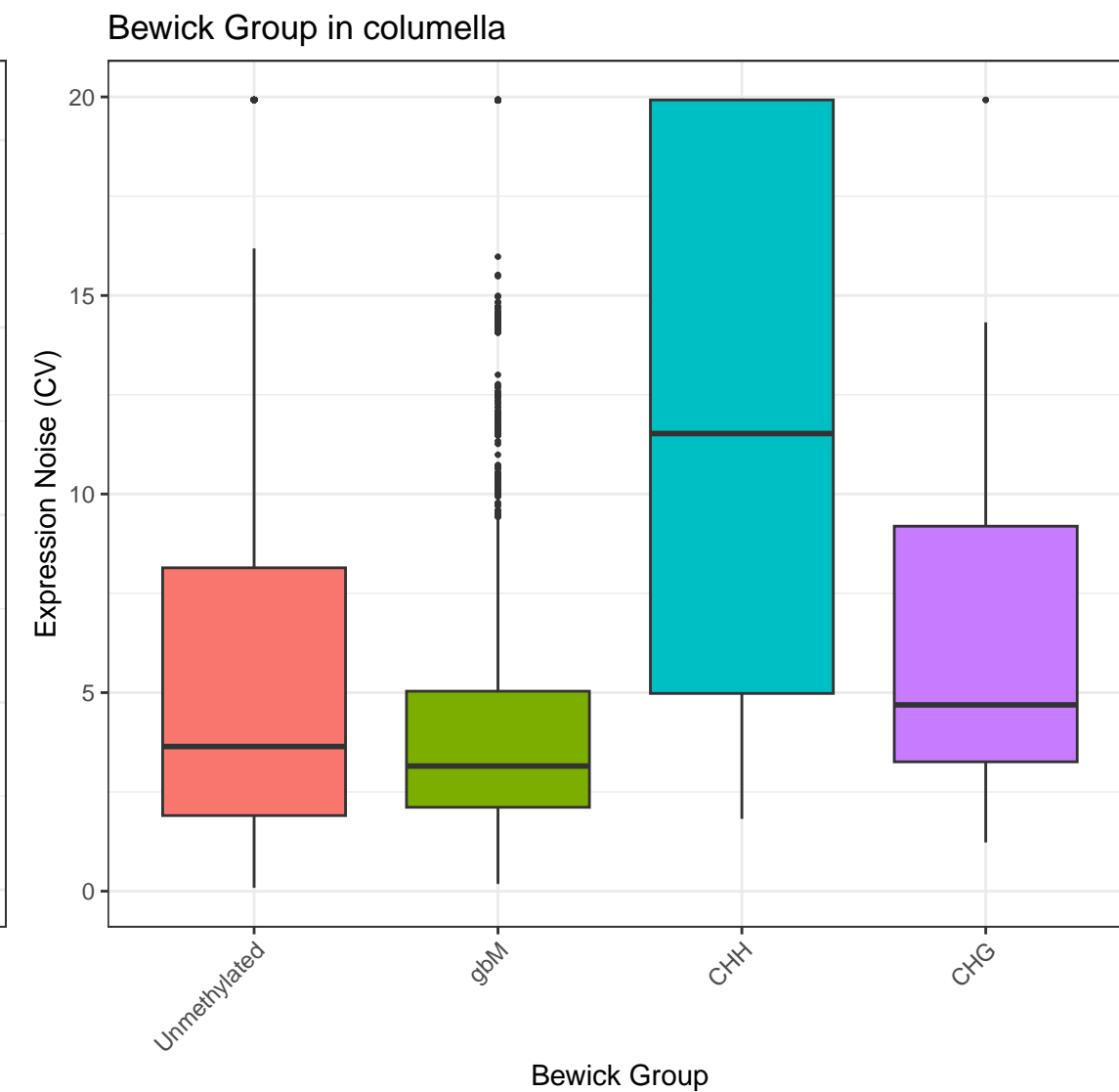
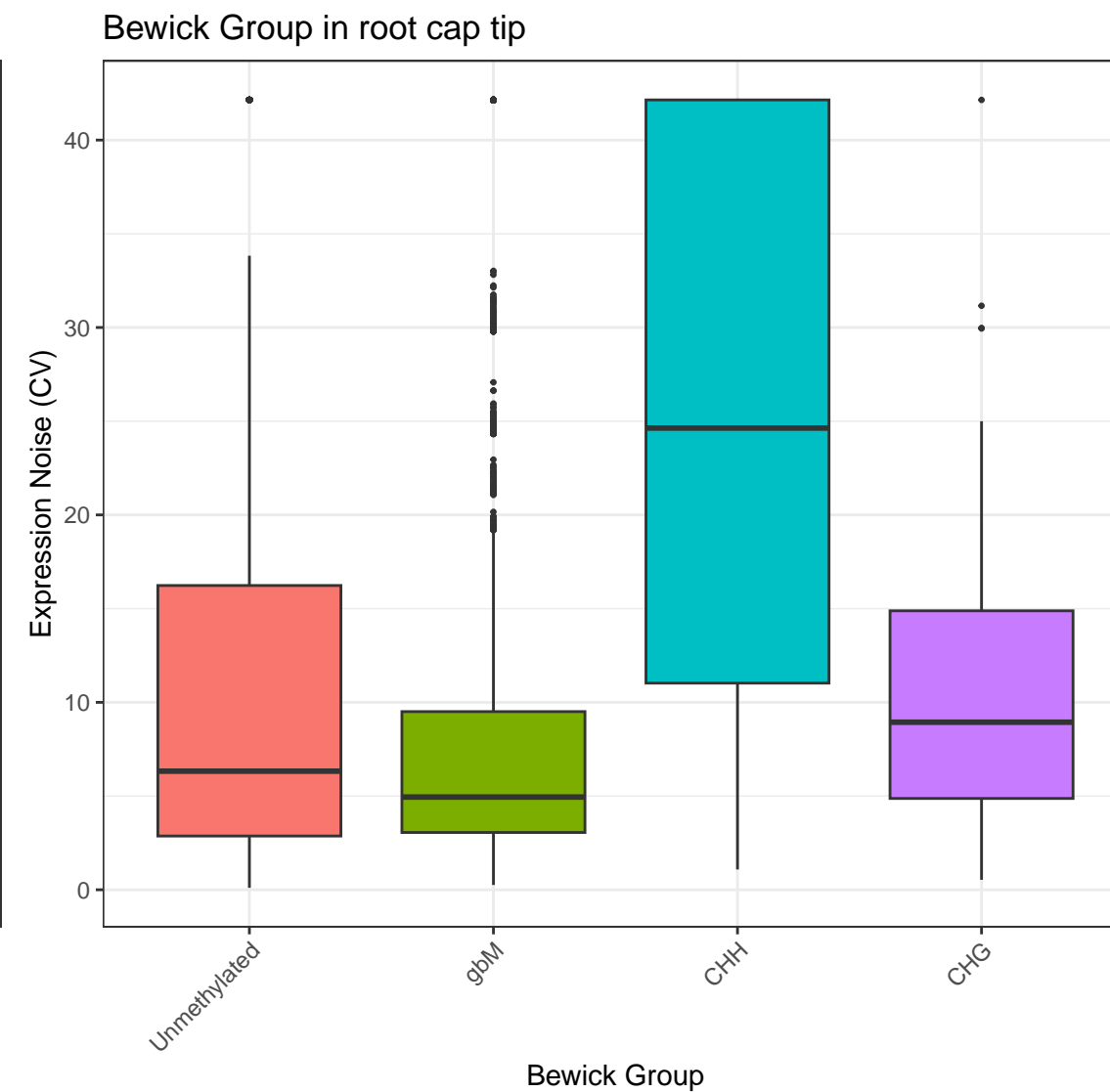
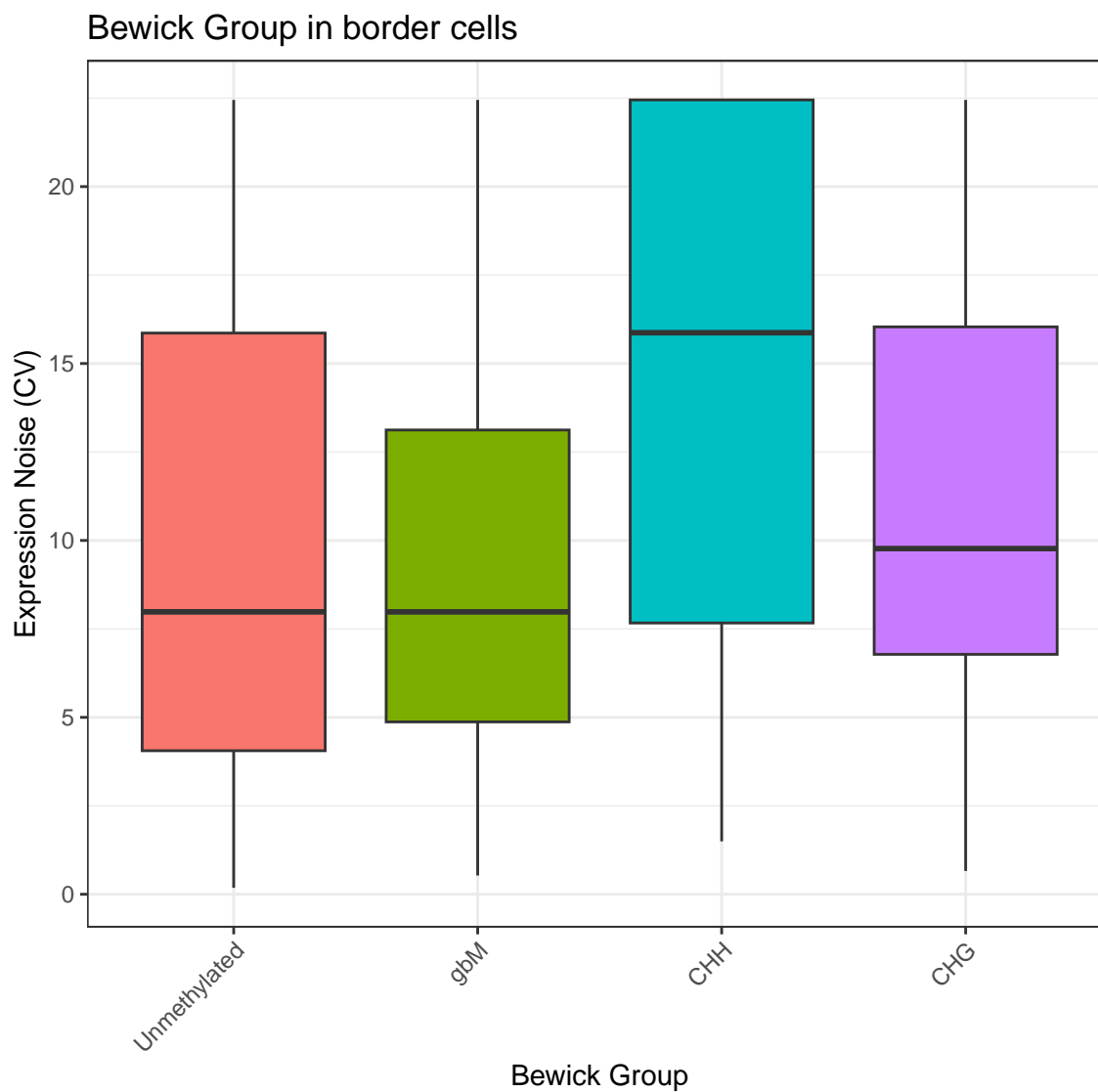
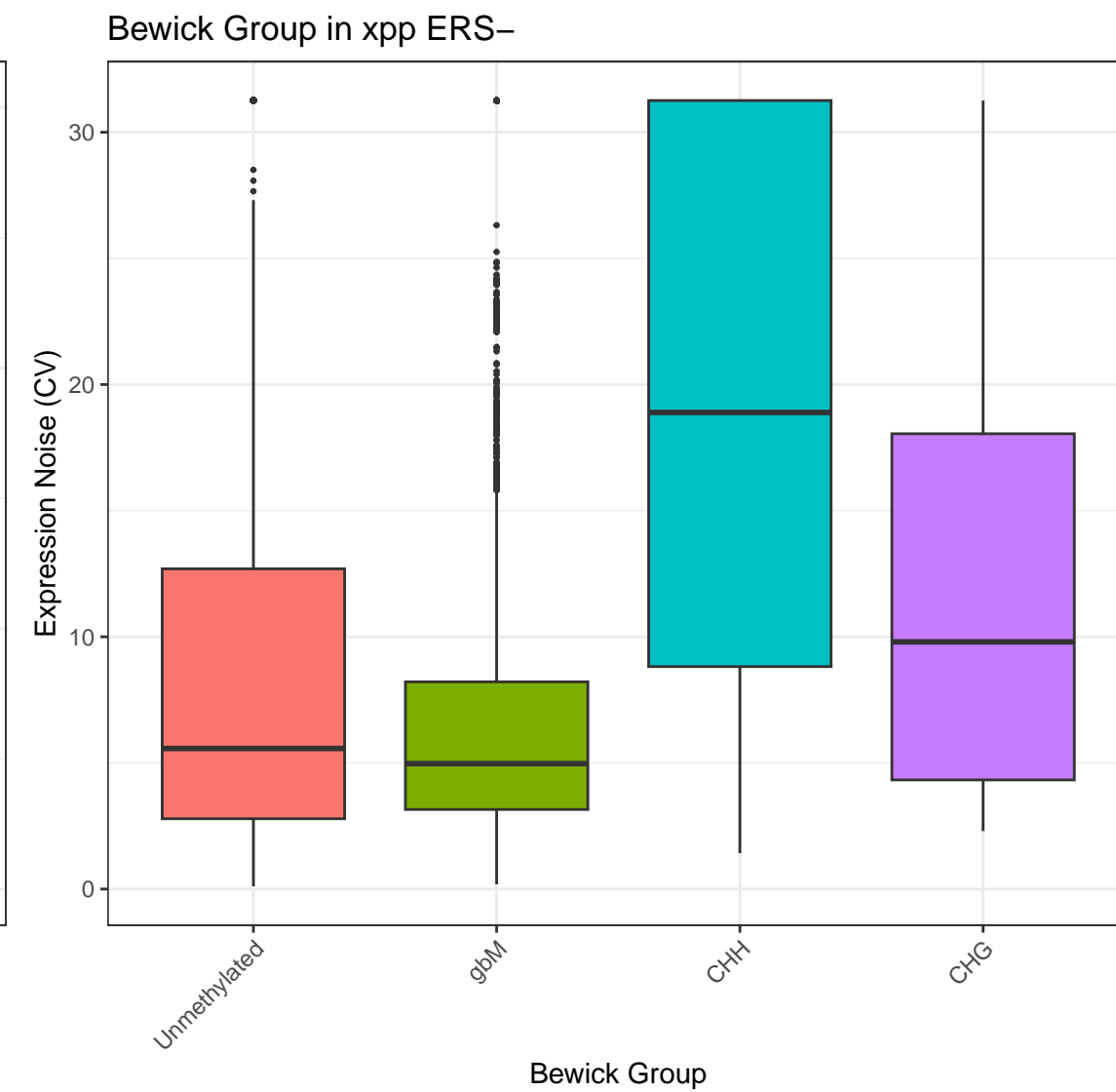
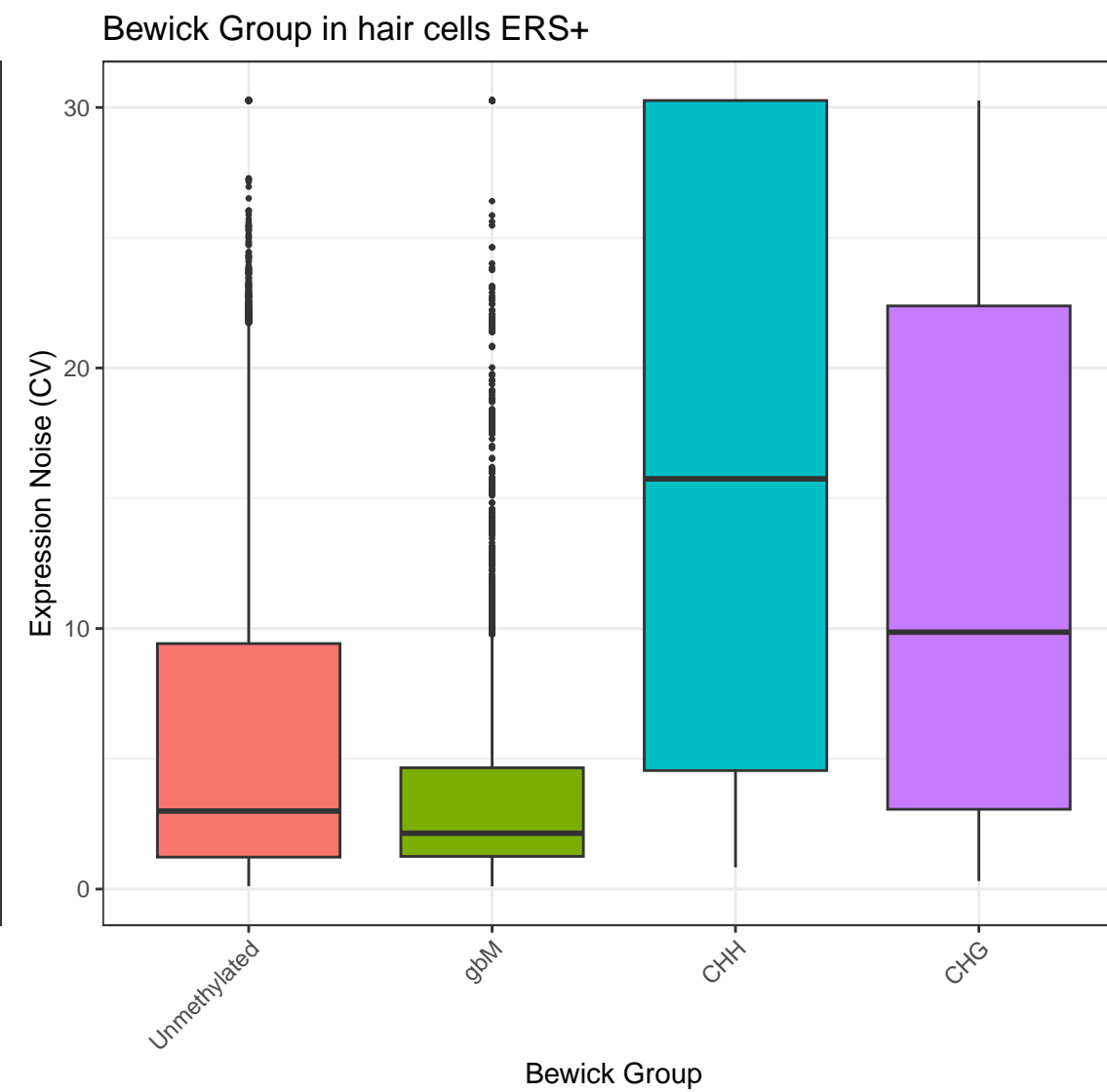
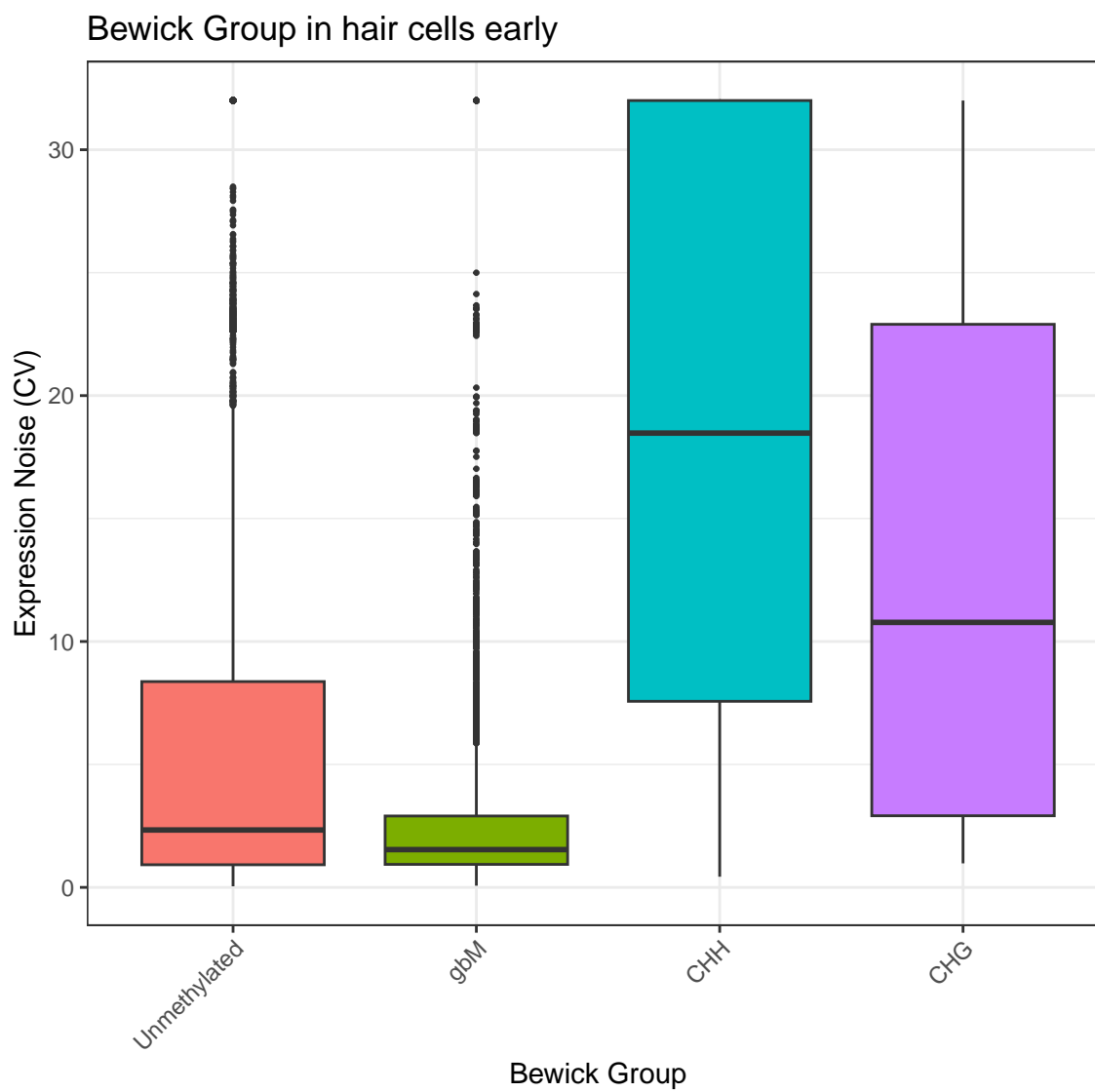
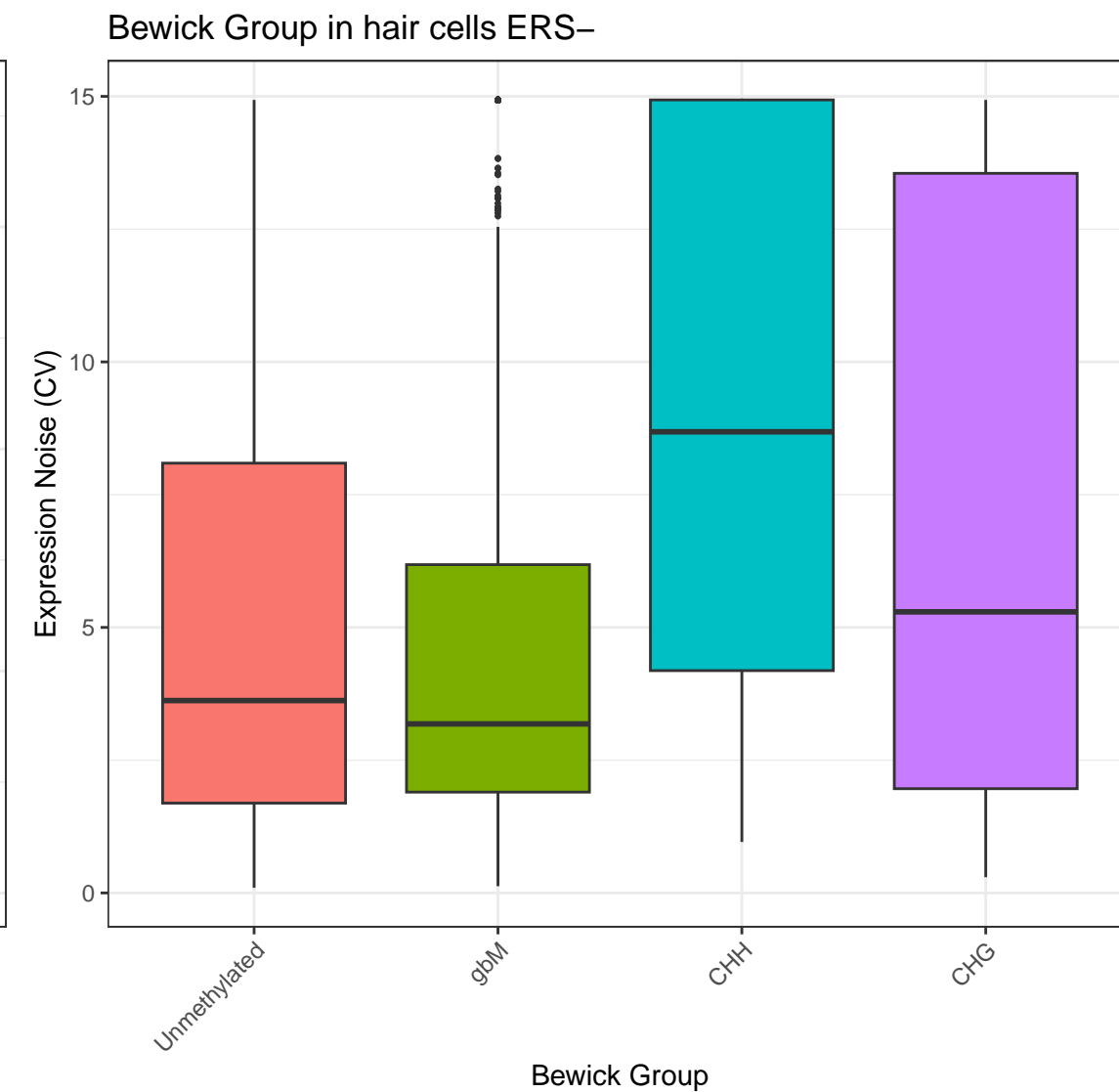
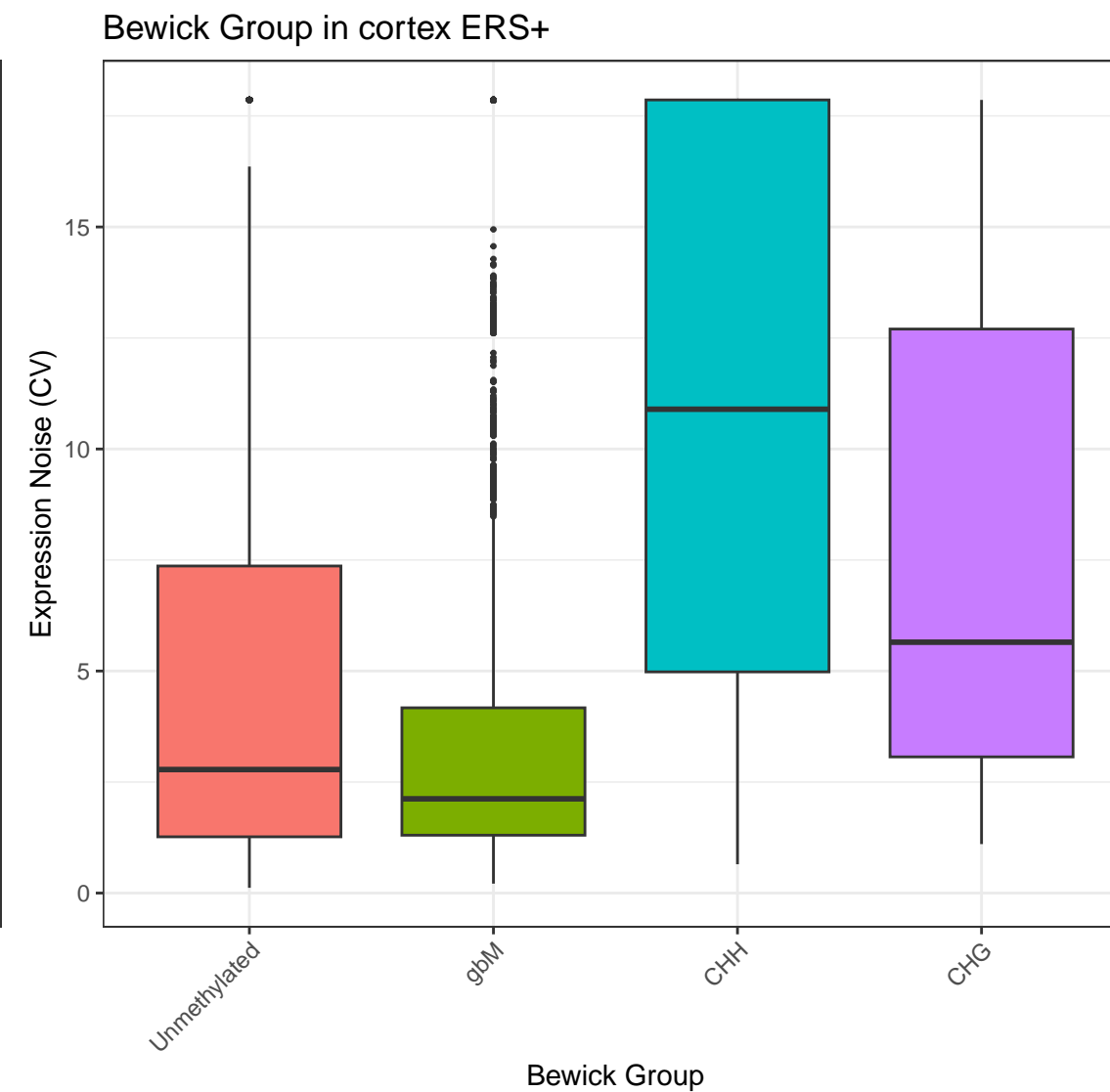
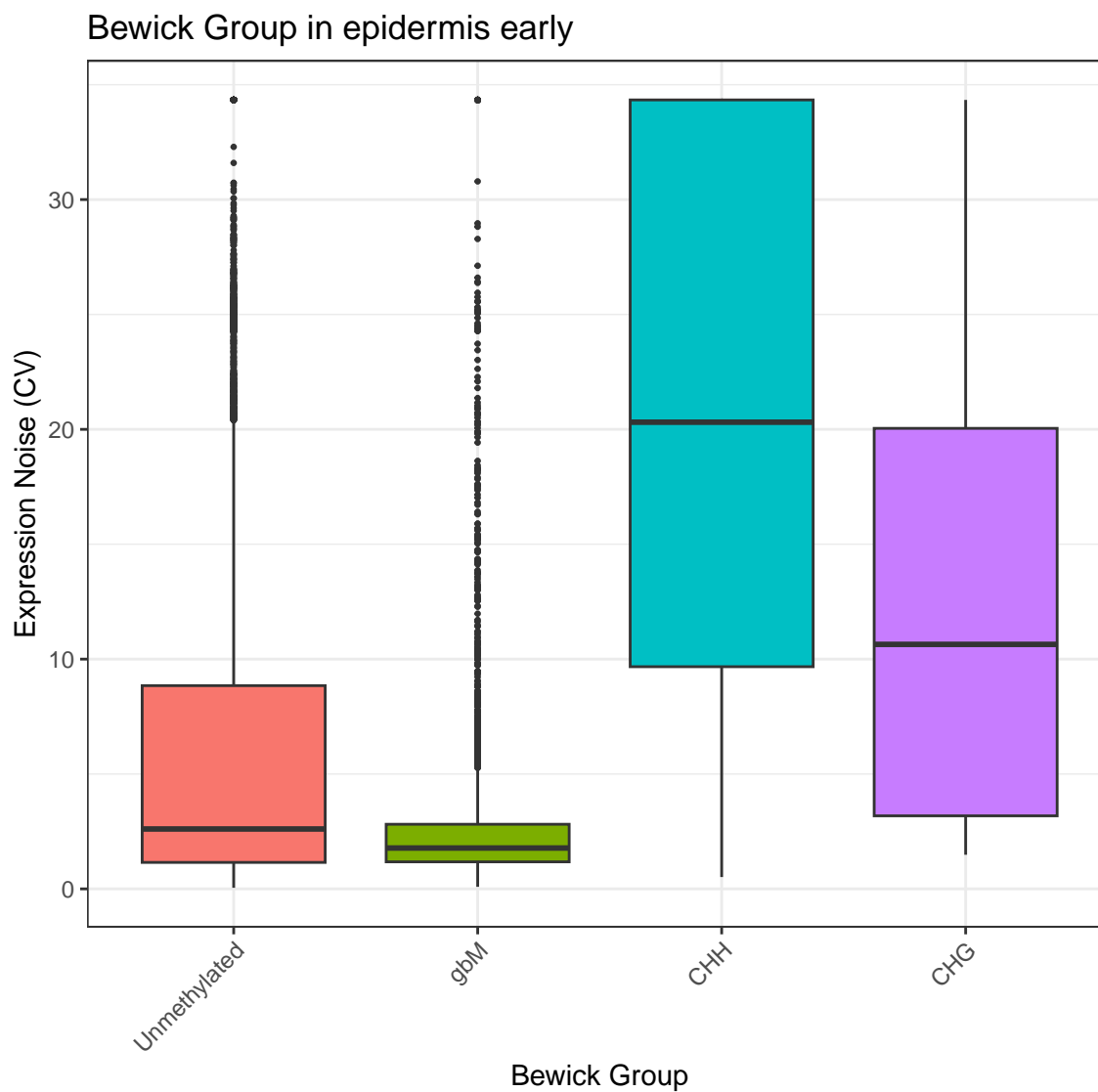


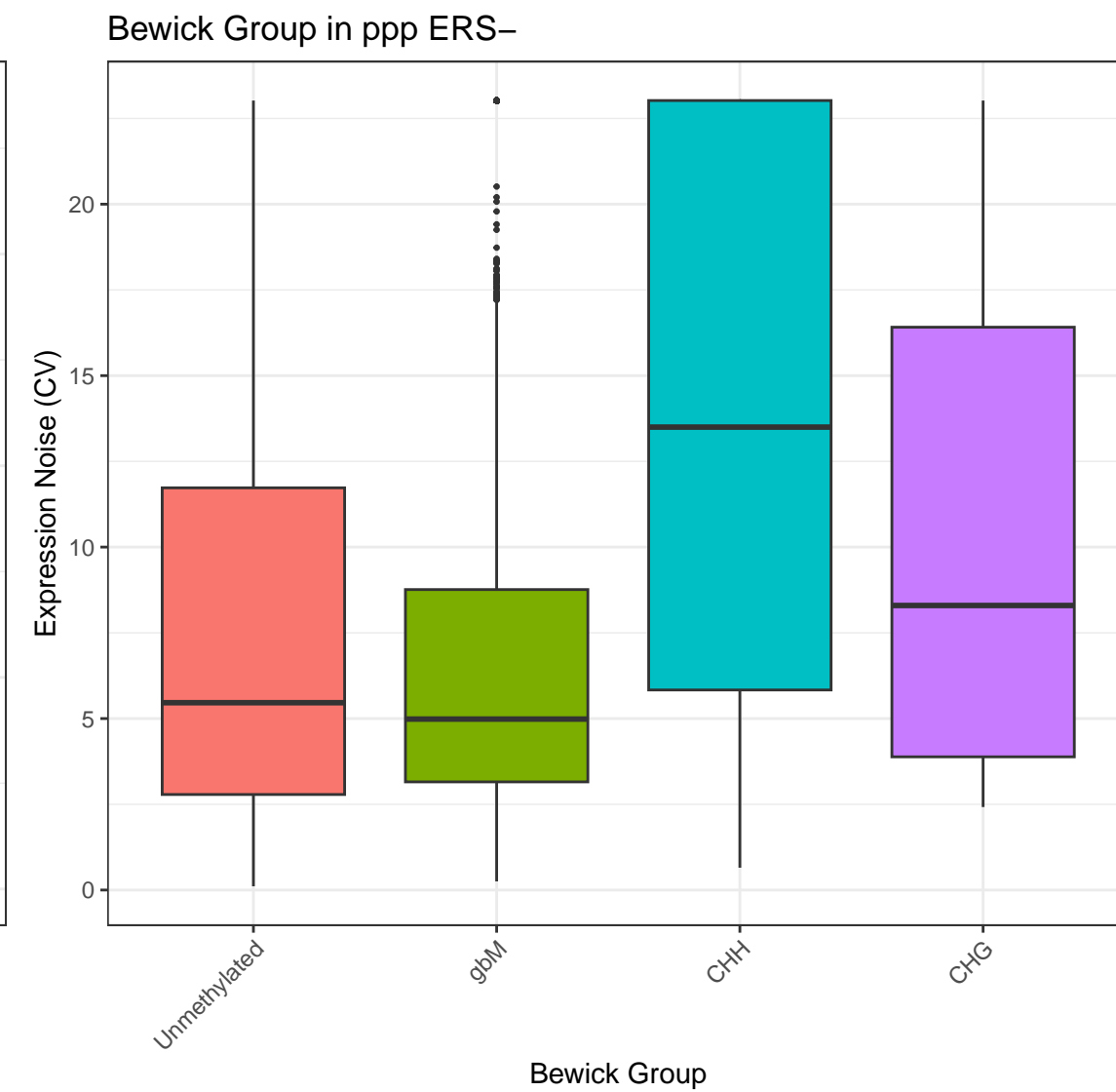
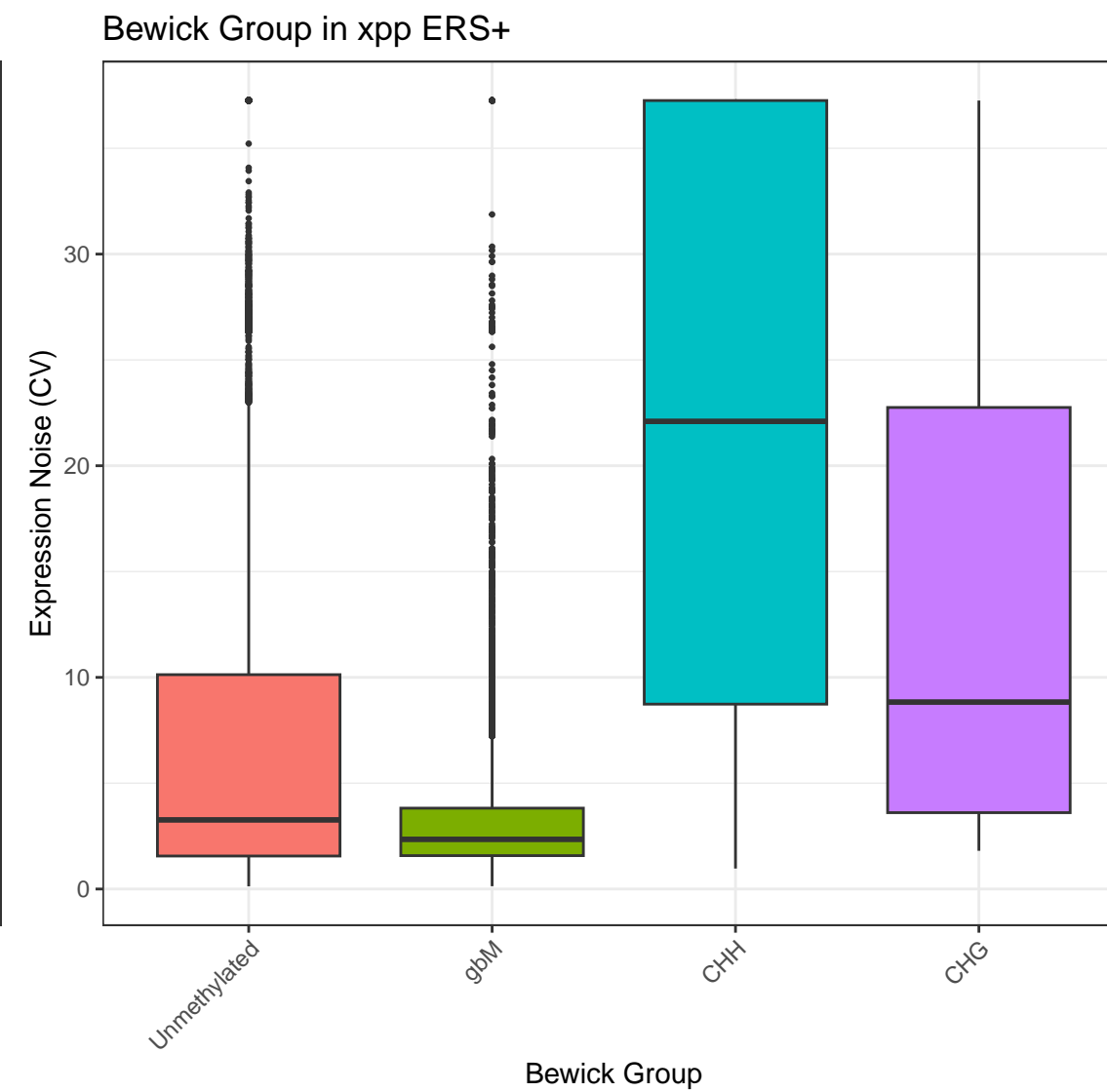
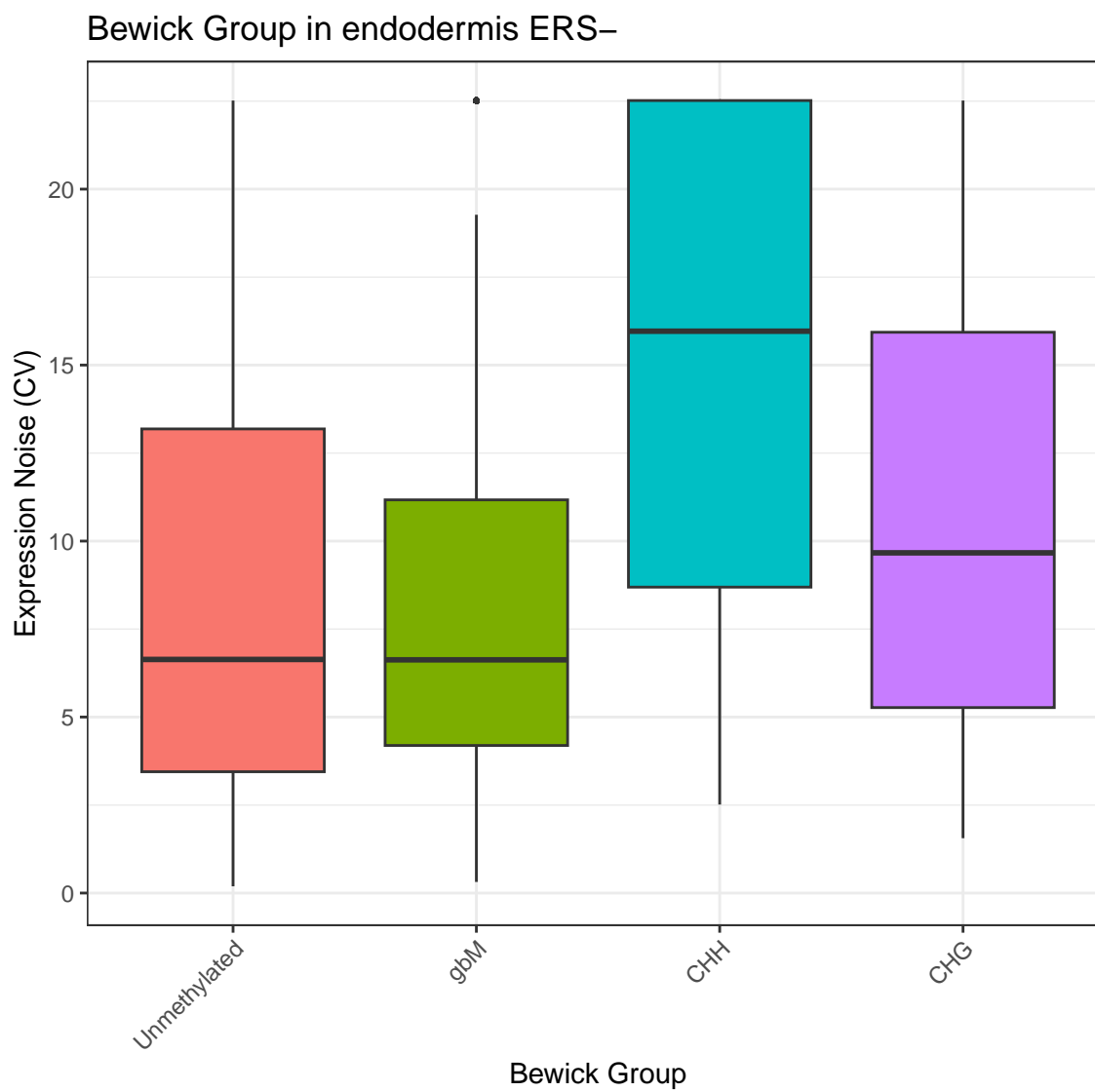
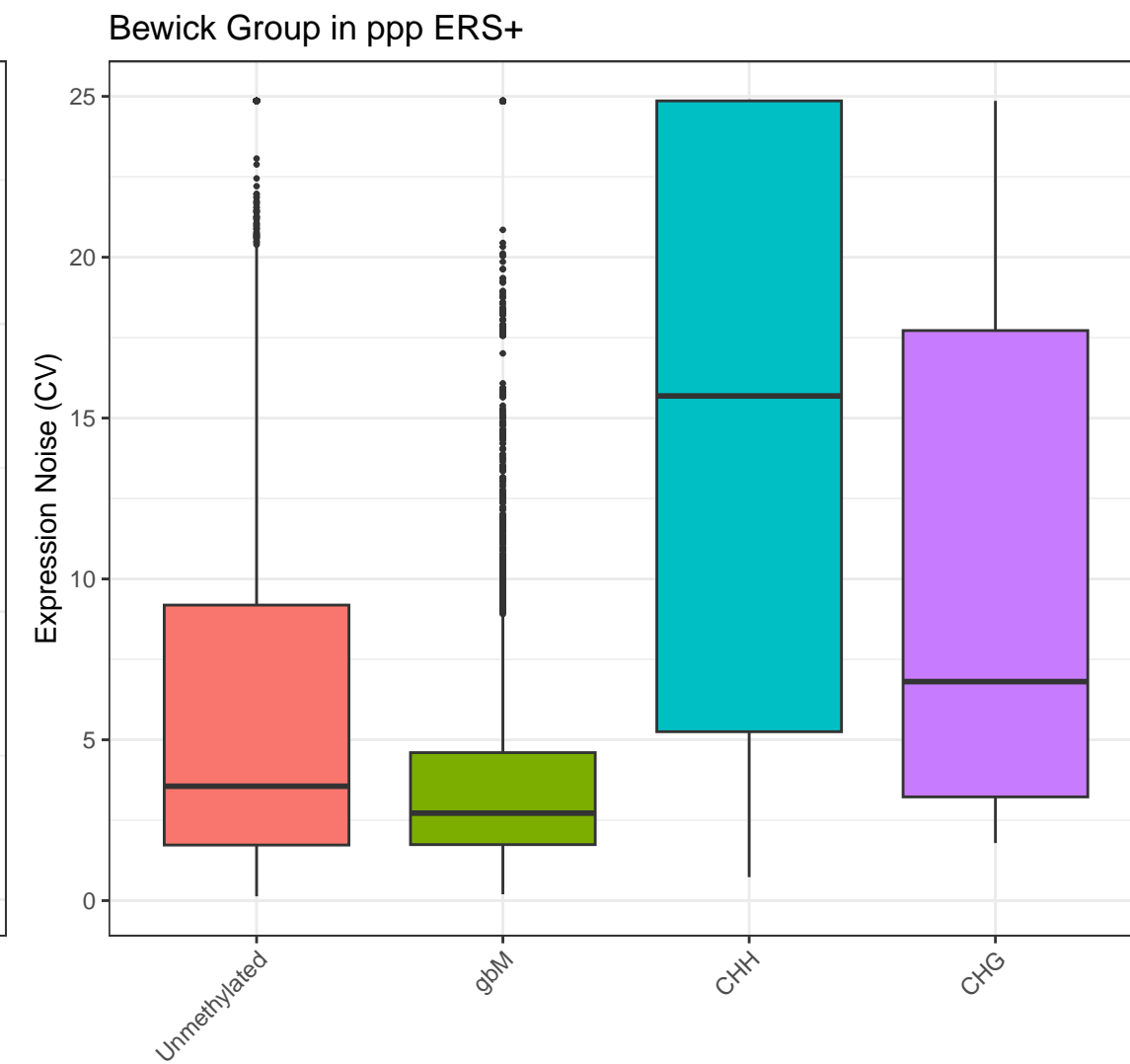
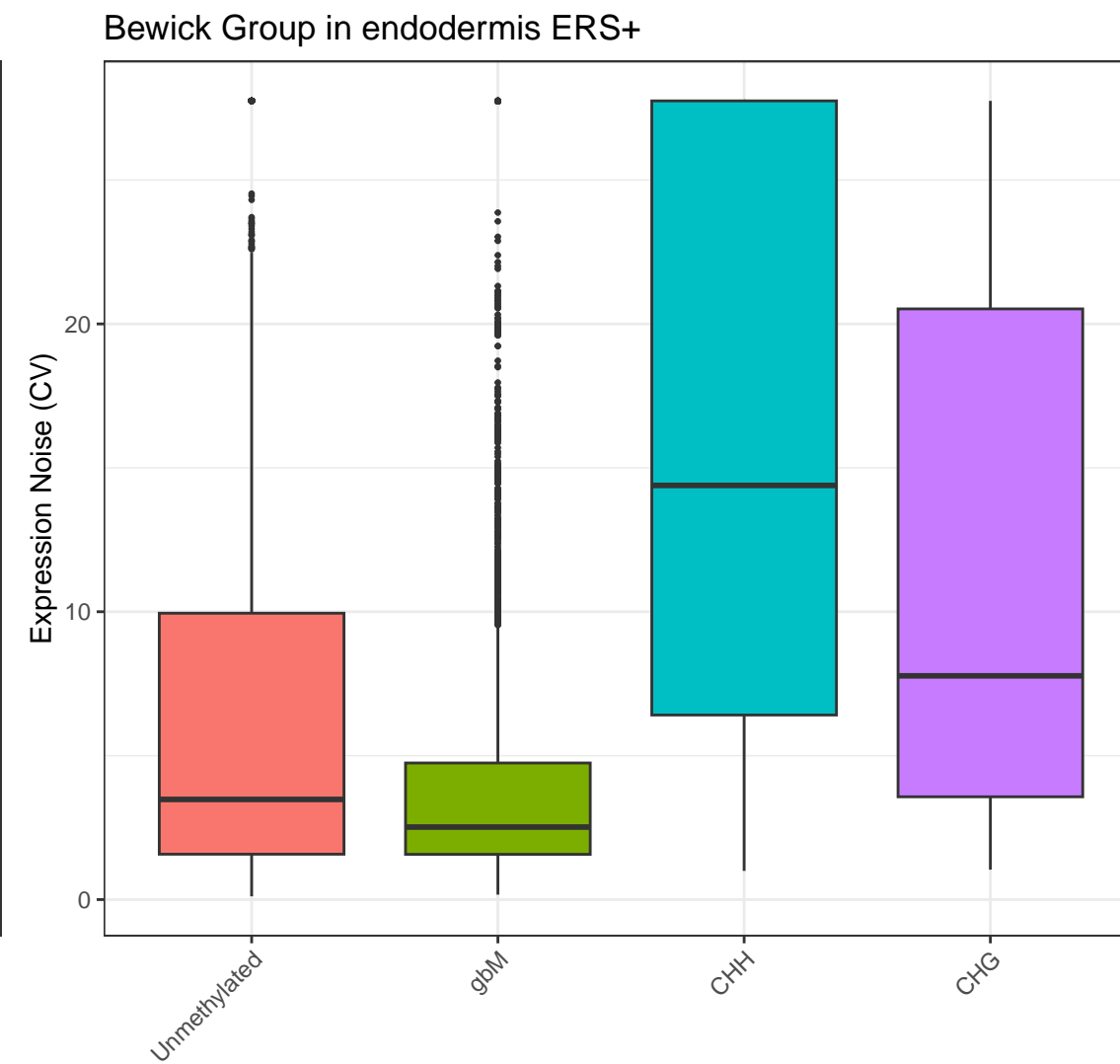
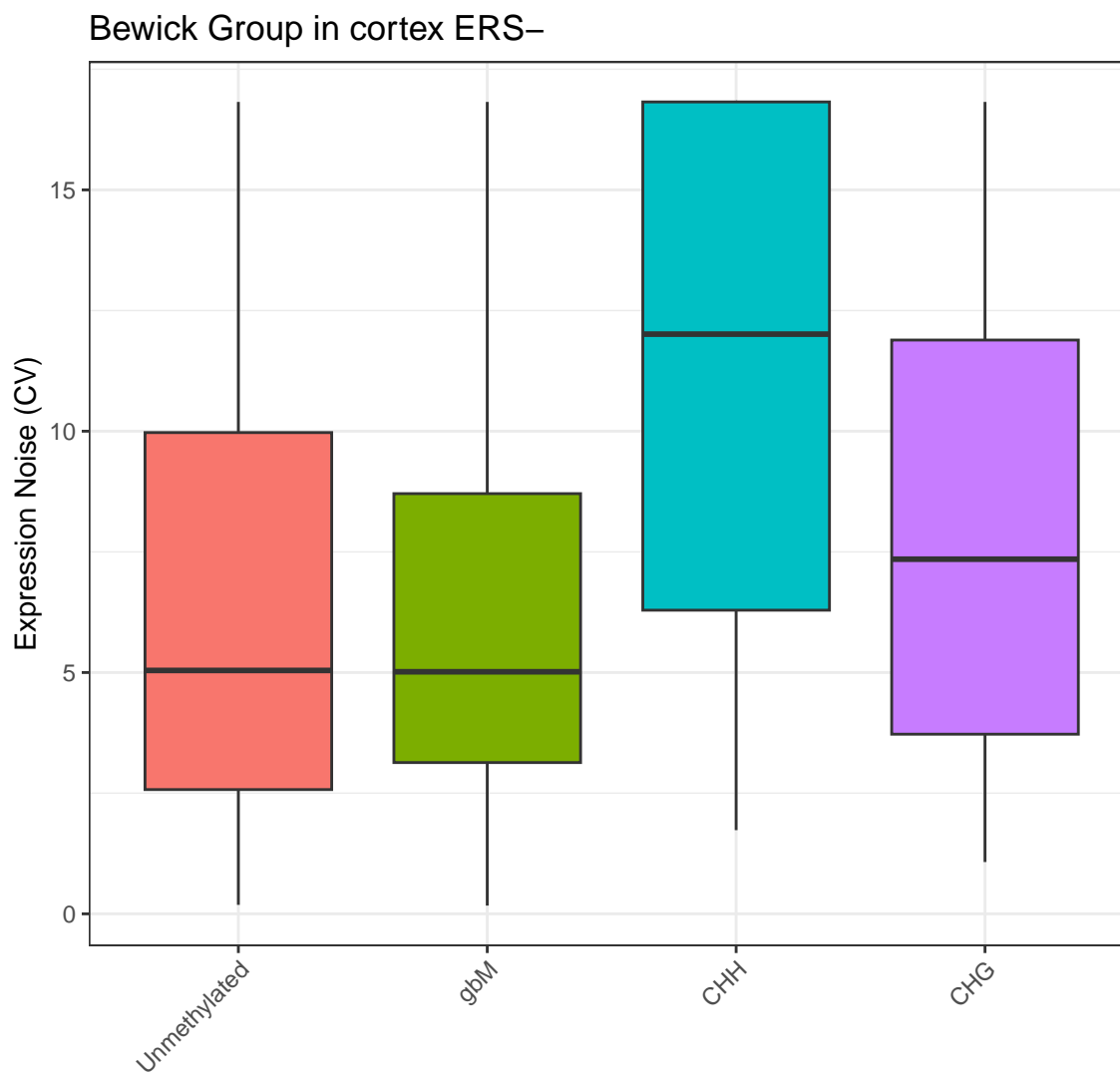
Expression Noise (CV) by Bewick Group in Celltypes (Unfiltered)



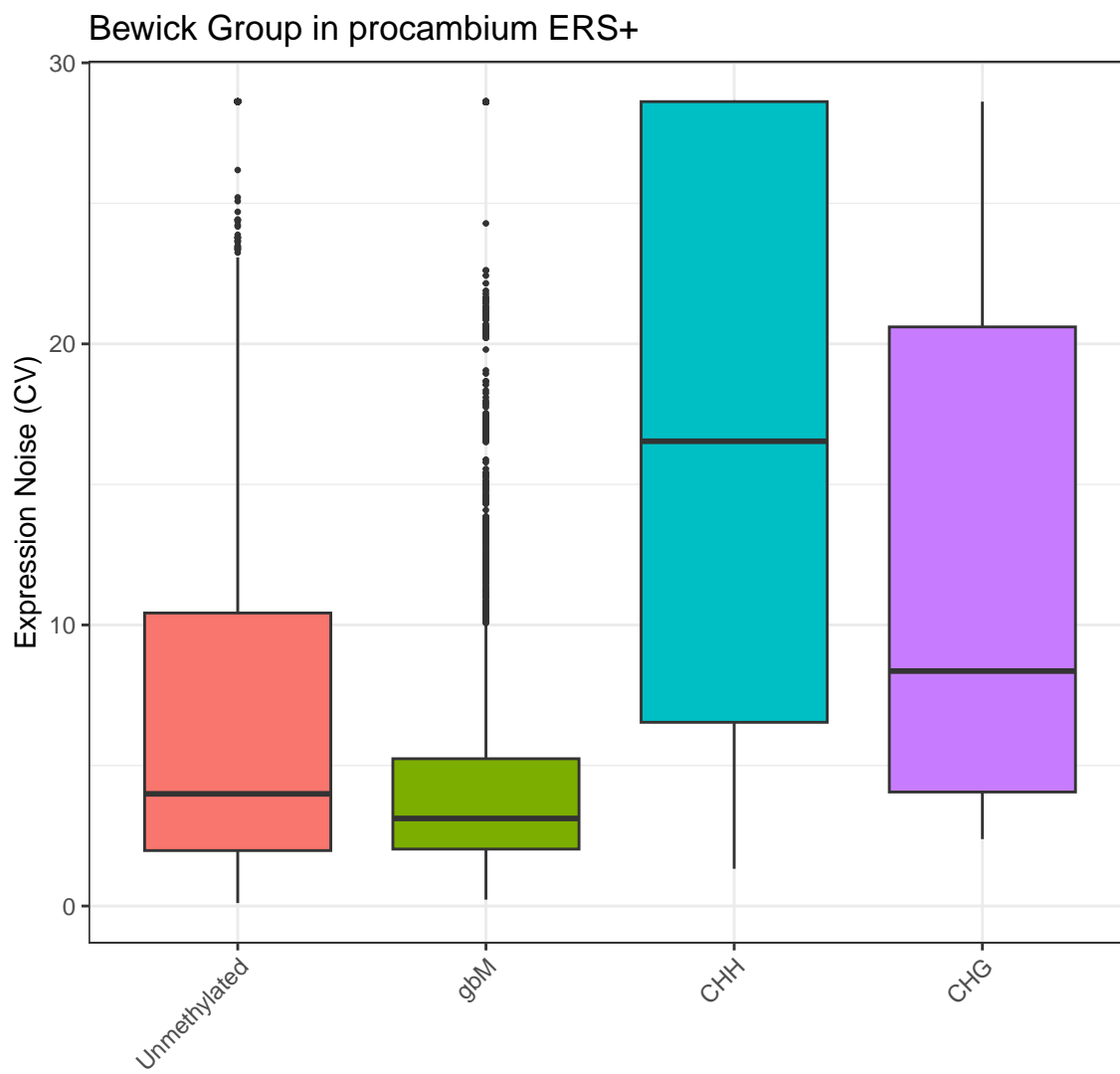
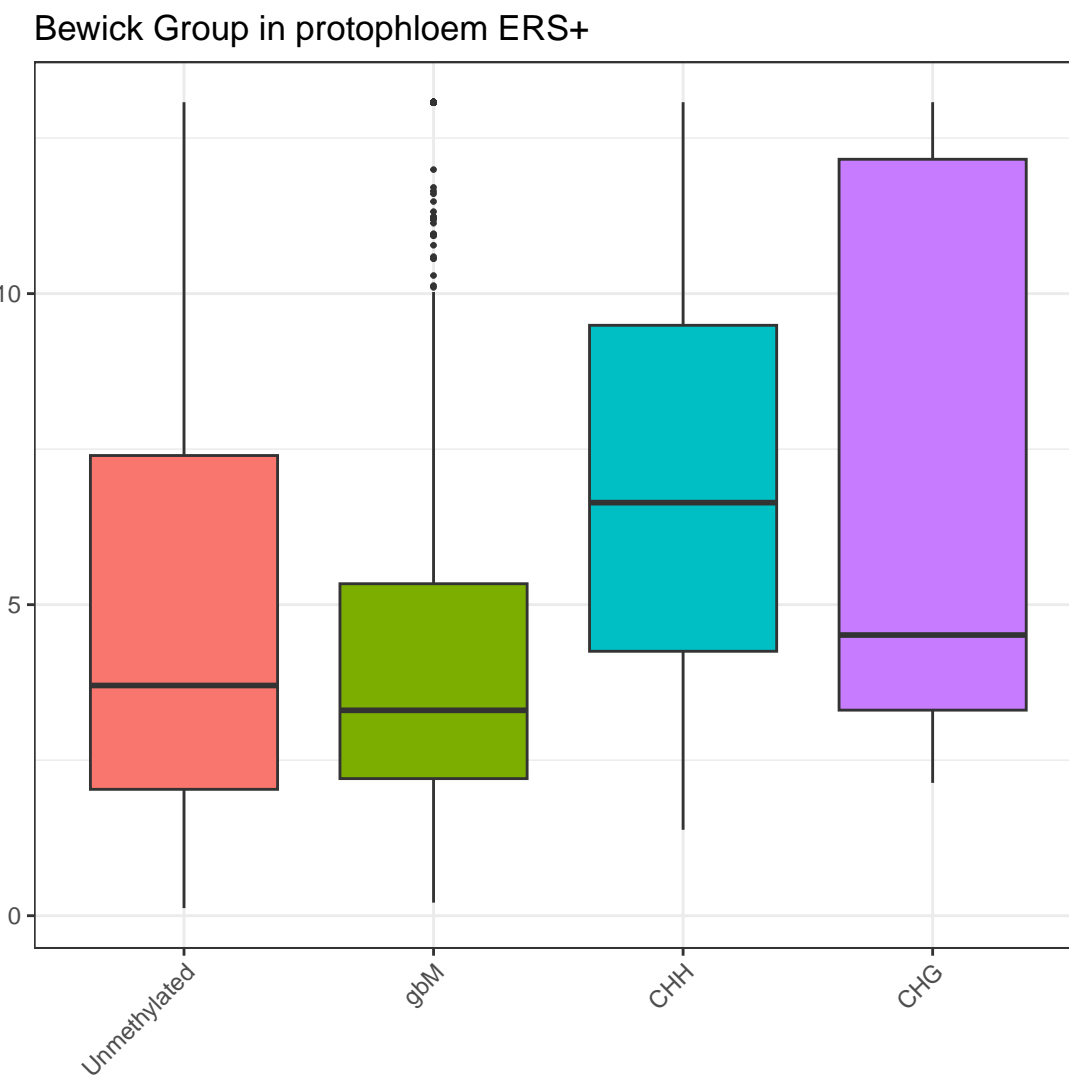
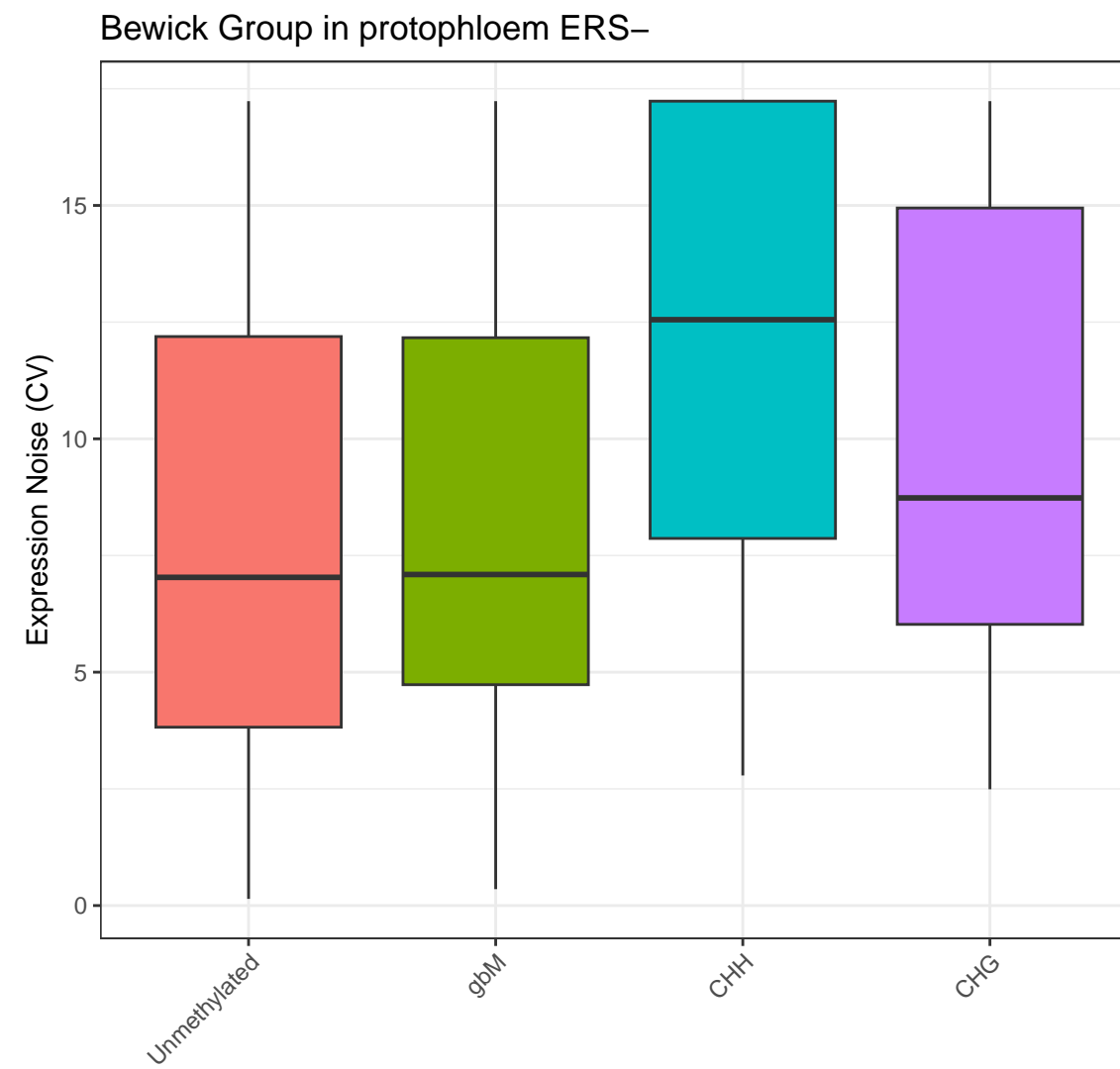
Expression Noise (CV) by Bewick Group in Celltypes (Unfiltered)



Expression Noise (CV) by Bewick Group in Celltypes (Unfiltered)



Expression Noise (CV) by Bewick Group in Celltypes (Unfiltered)

Bewick Group in metaphloem ERS-

Bewick Group in metaphloem ERS-

This box plot shows the distribution of expression noise (CV) for four Bewick groups: Unmethylated (red), gbM (green), CHH (cyan), and CHG (purple). The y-axis ranges from 0 to 20. The CHH group has the highest median noise at approximately 16, followed by CHG at 9, Unmethylated at 6.5, and gbM at 6.2. The plot includes whiskers and outliers.

Bewick Group	Median	Q1	Q3	Min	Max
Unmethylated	6.5	3.5	13.0	0.0	22.0
gbM	6.2	4.0	10.5	0.2	22.0
CHH	16.0	7.0	22.0	1.5	22.0
CHG	9.0	5.0	13.2	2.2	22.0

Expression Noise (CV)

Bewick Group

Bewick Group in metaphloem ERS+

Bewick Group in metaphloem ERS+

This box plot shows the distribution of expression noise (CV) for four Bewick groups: Unmethylated (red), gbM (green), CHH (cyan), and CHG (purple). The y-axis ranges from 0 to 20. The CHH group has the highest median noise at approximately 14.2, followed by CHG at 6.5, Unmethylated at 4.0, and gbM at 3.2. The plot includes whiskers and outliers.

Bewick Group	Median	Q1	Q3	Min	Max
Unmethylated	4.0	2.0	9.5	0.0	22.0
gbM	3.2	2.2	5.5	0.2	22.0
CHH	14.2	6.8	22.5	1.2	22.0
CHG	6.5	3.5	19.2	2.2	22.0

Expression Noise (CV)

Bewick Group

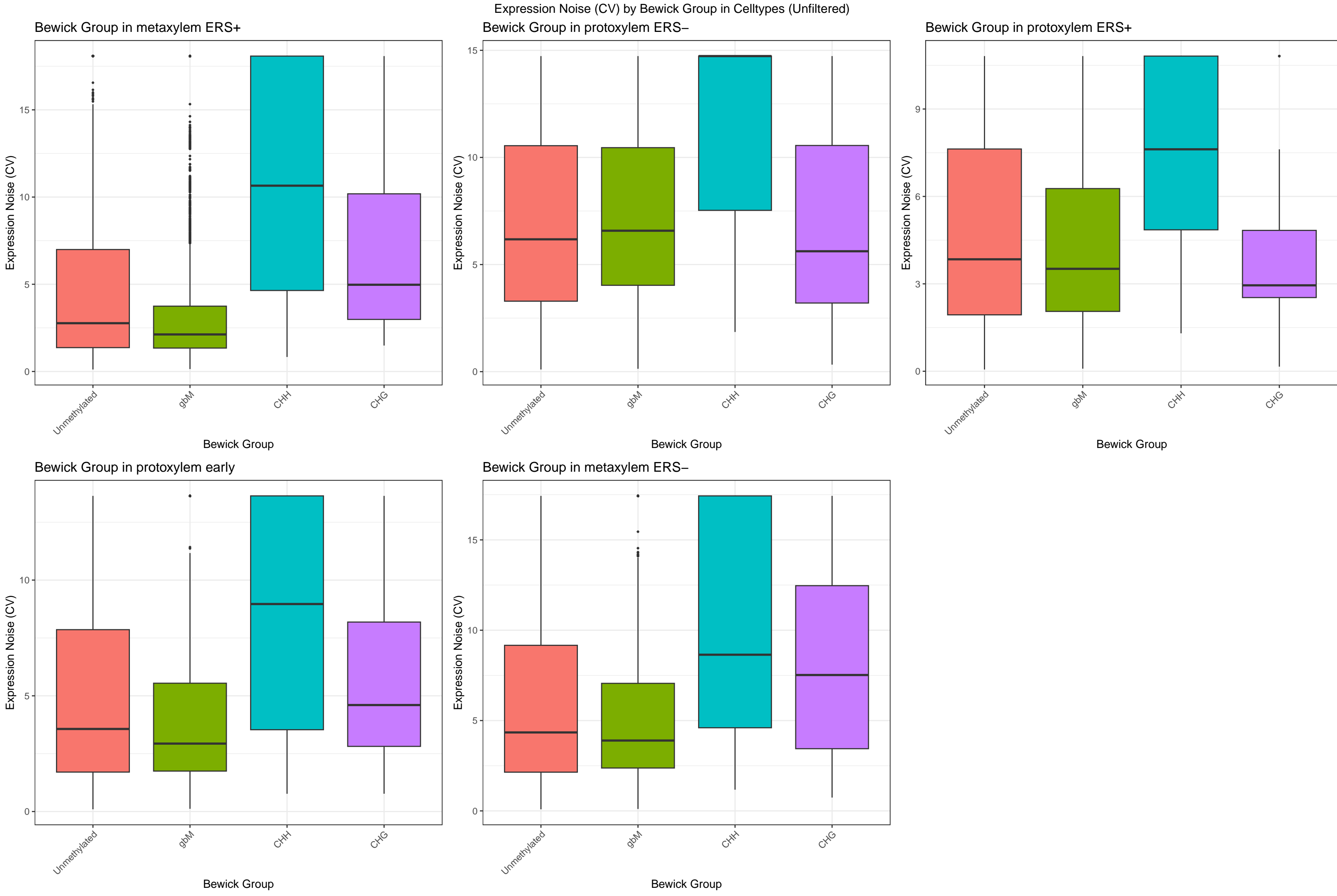
Bewick Group in procambium ERS-

This box plot shows the distribution of expression noise (CV) for four Bewick groups: Unmethylated (red), gbM (green), CHH (cyan), and CHG (purple). The y-axis ranges from 0 to 30. The CHG group has the highest median noise at approximately 10.5, followed by CHH at 18.5, Unmethylated at 7, and gbM at 6.5. The plot includes whiskers and outliers.

Bewick Group	Median	Q1	Q3	Min	Max
Unmethylated	7.0	3.5	15.0	0.0	29.0
gbM	6.5	4.0	11.0	0.2	29.0
CHH	18.5	9.0	27.5	1.5	29.0
CHG	10.5	5.2	29.5	2.5	29.0

Expression Noise (CV)

Bewick Group



Statistical Comparisons for Expression Noise (CV) by Bewick Group in Celltypes (Unfiltered)

Context	Filter_Tag	Specific_Context	Group_Type	Comparison	P_value_Formatted
CV Expr by Celltype	Unfiltered	border cells	bewick_group	Overall (Kruskal–Wallis)	6.1883e−06
CV Expr by Celltype	Unfiltered	border cells	bewick_group	gbM vs Unmethylated	8.3255e−03
CV Expr by Celltype	Unfiltered	border cells	bewick_group	CHH vs Unmethylated	1.6402e−05
CV Expr by Celltype	Unfiltered	border cells	bewick_group	CHG vs Unmethylated	2.8936e−01
CV Expr by Celltype	Unfiltered	root cap early	bewick_group	Overall (Kruskal–Wallis)	3.0861e−84
CV Expr by Celltype	Unfiltered	root cap early	bewick_group	gbM vs Unmethylated	1.3106e−51
CV Expr by Celltype	Unfiltered	root cap early	bewick_group	CHH vs Unmethylated	2.4934e−30
CV Expr by Celltype	Unfiltered	root cap early	bewick_group	CHG vs Unmethylated	4.0086e−03
CV Expr by Celltype	Unfiltered	root cap tip	bewick_group	Overall (Kruskal–Wallis)	6.8751e−36
CV Expr by Celltype	Unfiltered	root cap tip	bewick_group	gbM vs Unmethylated	4.1195e−23
CV Expr by Celltype	Unfiltered	root cap tip	bewick_group	CHH vs Unmethylated	3.1862e−14
CV Expr by Celltype	Unfiltered	root cap tip	bewick_group	CHG vs Unmethylated	2.2143e−01
CV Expr by Celltype	Unfiltered	root cap lateral	bewick_group	Overall (Kruskal–Wallis)	2.6331e−34
CV Expr by Celltype	Unfiltered	root cap lateral	bewick_group	gbM vs Unmethylated	1.4229e−16
CV Expr by Celltype	Unfiltered	root cap lateral	bewick_group	CHH vs Unmethylated	3.2422e−18
CV Expr by Celltype	Unfiltered	root cap lateral	bewick_group	CHG vs Unmethylated	2.5185e−02
CV Expr by Celltype	Unfiltered	columella	bewick_group	Overall (Kruskal–Wallis)	7.7087e−29
CV Expr by Celltype	Unfiltered	columella	bewick_group	gbM vs Unmethylated	5.1898e−18
CV Expr by Celltype	Unfiltered	columella	bewick_group	CHH vs Unmethylated	8.3320e−12
CV Expr by Celltype	Unfiltered	columella	bewick_group	CHG vs Unmethylated	6.4504e−02
CV Expr by Celltype	Unfiltered	non–hair cells	bewick_group	Overall (Kruskal–Wallis)	9.7980e−98
CV Expr by Celltype	Unfiltered	non–hair cells	bewick_group	gbM vs Unmethylated	2.5976e−61
CV Expr by Celltype	Unfiltered	non–hair cells	bewick_group	CHH vs Unmethylated	3.3759e−30
CV Expr by Celltype	Unfiltered	non–hair cells	bewick_group	CHG vs Unmethylated	3.6058e−06
CV Expr by Celltype	Unfiltered	epidermis early	bewick_group	Overall (Kruskal–Wallis)	3.5823e−148
CV Expr by Celltype	Unfiltered	epidermis early	bewick_group	gbM vs Unmethylated	1.5219e−100
CV Expr by Celltype	Unfiltered	epidermis early	bewick_group	CHH vs Unmethylated	1.4435e−40
CV Expr by Celltype	Unfiltered	epidermis early	bewick_group	CHG vs Unmethylated	3.2791e−06
CV Expr by Celltype	Unfiltered	hair cells early	bewick_group	Overall (Kruskal–Wallis)	2.1132e−121
CV Expr by Celltype	Unfiltered	hair cells early	bewick_group	gbM vs Unmethylated	1.2551e−78

Statistical Comparisons for Expression Noise (CV) by Bewick Group in Celltypes (Unfiltered)

Context	Filter_Tag	Specific_Context	Group_Type	Comparison	P_value_Formatted
CV Expr by Celltype	Unfiltered	hair cells early	bewick_group	CHH vs Unmethylated	1.0648e−35
CV Expr by Celltype	Unfiltered	hair cells early	bewick_group	CHG vs Unmethylated	1.0884e−06
CV Expr by Celltype	Unfiltered	cortex ERS+	bewick_group	Overall (Kruskal–Wallis)	8.3645e−49
CV Expr by Celltype	Unfiltered	cortex ERS+	bewick_group	gbM vs Unmethylated	8.8826e−31
CV Expr by Celltype	Unfiltered	cortex ERS+	bewick_group	CHH vs Unmethylated	8.4499e−17
CV Expr by Celltype	Unfiltered	cortex ERS+	bewick_group	CHG vs Unmethylated	1.2282e−03
CV Expr by Celltype	Unfiltered	hair cells ERS+	bewick_group	Overall (Kruskal–Wallis)	1.1123e−64
CV Expr by Celltype	Unfiltered	hair cells ERS+	bewick_group	gbM vs Unmethylated	2.2647e−37
CV Expr by Celltype	Unfiltered	hair cells ERS+	bewick_group	CHH vs Unmethylated	2.3765e−24
CV Expr by Celltype	Unfiltered	hair cells ERS+	bewick_group	CHG vs Unmethylated	7.5952e−05
CV Expr by Celltype	Unfiltered	hair cells ERS−	bewick_group	Overall (Kruskal–Wallis)	1.6541e−12
CV Expr by Celltype	Unfiltered	hair cells ERS−	bewick_group	gbM vs Unmethylated	2.5383e−05
CV Expr by Celltype	Unfiltered	hair cells ERS−	bewick_group	CHH vs Unmethylated	3.9161e−09
CV Expr by Celltype	Unfiltered	hair cells ERS−	bewick_group	CHG vs Unmethylated	2.0365e−01
CV Expr by Celltype	Unfiltered	xpp ERS−	bewick_group	Overall (Kruskal–Wallis)	4.8436e−24
CV Expr by Celltype	Unfiltered	xpp ERS−	bewick_group	gbM vs Unmethylated	1.2779e−11
CV Expr by Celltype	Unfiltered	xpp ERS−	bewick_group	CHH vs Unmethylated	2.4996e−13
CV Expr by Celltype	Unfiltered	xpp ERS−	bewick_group	CHG vs Unmethylated	3.9923e−02
CV Expr by Celltype	Unfiltered	cortex ERS−	bewick_group	Overall (Kruskal–Wallis)	8.4144e−10
CV Expr by Celltype	Unfiltered	cortex ERS−	bewick_group	gbM vs Unmethylated	1.6028e−01
CV Expr by Celltype	Unfiltered	cortex ERS−	bewick_group	CHH vs Unmethylated	5.9460e−10
CV Expr by Celltype	Unfiltered	cortex ERS−	bewick_group	CHG vs Unmethylated	9.2185e−02
CV Expr by Celltype	Unfiltered	endodermis ERS−	bewick_group	Overall (Kruskal–Wallis)	1.9264e−10
CV Expr by Celltype	Unfiltered	endodermis ERS−	bewick_group	gbM vs Unmethylated	1.8595e−01
CV Expr by Celltype	Unfiltered	endodermis ERS−	bewick_group	CHH vs Unmethylated	6.7518e−11
CV Expr by Celltype	Unfiltered	endodermis ERS−	bewick_group	CHG vs Unmethylated	2.1477e−01
CV Expr by Celltype	Unfiltered	endodermis ERS+	bewick_group	Overall (Kruskal–Wallis)	8.1834e−73
CV Expr by Celltype	Unfiltered	endodermis ERS+	bewick_group	gbM vs Unmethylated	2.7837e−52
CV Expr by Celltype	Unfiltered	endodermis ERS+	bewick_group	CHH vs Unmethylated	9.8289e−19
CV Expr by Celltype	Unfiltered	endodermis ERS+	bewick_group	CHG vs Unmethylated	1.3083e−03

Statistical Comparisons for Expression Noise (CV) by Bewick Group in Celltypes (Unfiltered)

Context	Filter_Tag	Specific_Context	Group_Type	Comparison	P_value_Formatted
CV Expr by Celltype	Unfiltered	xpp ERS+	bewick_group	Overall (Kruskal–Wallis)	2.7524e−114
CV Expr by Celltype	Unfiltered	xpp ERS+	bewick_group	gbM vs Unmethylated	6.3467e−80
CV Expr by Celltype	Unfiltered	xpp ERS+	bewick_group	CHH vs Unmethylated	2.6579e−30
CV Expr by Celltype	Unfiltered	xpp ERS+	bewick_group	CHG vs Unmethylated	1.1327e−04
CV Expr by Celltype	Unfiltered	ppp ERS+	bewick_group	Overall (Kruskal–Wallis)	6.0035e−70
CV Expr by Celltype	Unfiltered	ppp ERS+	bewick_group	gbM vs Unmethylated	3.3969e−52
CV Expr by Celltype	Unfiltered	ppp ERS+	bewick_group	CHH vs Unmethylated	1.1004e−16
CV Expr by Celltype	Unfiltered	ppp ERS+	bewick_group	CHG vs Unmethylated	1.8375e−03
CV Expr by Celltype	Unfiltered	ppp ERS−	bewick_group	Overall (Kruskal–Wallis)	3.0253e−10
CV Expr by Celltype	Unfiltered	ppp ERS−	bewick_group	gbM vs Unmethylated	3.1456e−05
CV Expr by Celltype	Unfiltered	ppp ERS−	bewick_group	CHH vs Unmethylated	1.0189e−06
CV Expr by Celltype	Unfiltered	ppp ERS−	bewick_group	CHG vs Unmethylated	1.0483e−01
CV Expr by Celltype	Unfiltered	procambium ERS+	bewick_group	Overall (Kruskal–Wallis)	1.5961e−64
CV Expr by Celltype	Unfiltered	procambium ERS+	bewick_group	gbM vs Unmethylated	6.9403e−46
CV Expr by Celltype	Unfiltered	procambium ERS+	bewick_group	CHH vs Unmethylated	3.0586e−17
CV Expr by Celltype	Unfiltered	procambium ERS+	bewick_group	CHG vs Unmethylated	1.8074e−03
CV Expr by Celltype	Unfiltered	procambium ERS−	bewick_group	Overall (Kruskal–Wallis)	4.8569e−13
CV Expr by Celltype	Unfiltered	procambium ERS−	bewick_group	gbM vs Unmethylated	7.6531e−04
CV Expr by Celltype	Unfiltered	procambium ERS−	bewick_group	CHH vs Unmethylated	2.1779e−10
CV Expr by Celltype	Unfiltered	procambium ERS−	bewick_group	CHG vs Unmethylated	4.5973e−02
CV Expr by Celltype	Unfiltered	protophloem ERS−	bewick_group	Overall (Kruskal–Wallis)	3.3879e−10
CV Expr by Celltype	Unfiltered	protophloem ERS−	bewick_group	gbM vs Unmethylated	7.6097e−06
CV Expr by Celltype	Unfiltered	protophloem ERS−	bewick_group	CHH vs Unmethylated	9.3061e−07
CV Expr by Celltype	Unfiltered	protophloem ERS−	bewick_group	CHG vs Unmethylated	7.9438e−02
CV Expr by Celltype	Unfiltered	metaphloem ERS−	bewick_group	Overall (Kruskal–Wallis)	1.9312e−06
CV Expr by Celltype	Unfiltered	metaphloem ERS−	bewick_group	gbM vs Unmethylated	7.2287e−01
CV Expr by Celltype	Unfiltered	metaphloem ERS−	bewick_group	CHH vs Unmethylated	3.2646e−07
CV Expr by Celltype	Unfiltered	metaphloem ERS−	bewick_group	CHG vs Unmethylated	2.2412e−01
CV Expr by Celltype	Unfiltered	protophloem ERS+	bewick_group	Overall (Kruskal–Wallis)	1.7722e−12
CV Expr by Celltype	Unfiltered	protophloem ERS+	bewick_group	gbM vs Unmethylated	3.3033e−09

Statistical Comparisons for Expression Noise (CV) by Bewick Group in Celltypes (Unfiltered)

Context	Filter_Tag	Specific_Context	Group_Type	Comparison	P_value_Formatted
CV Expr by Celltype	Unfiltered	protophloem ERS+	bewick_group	CHH vs Unmethylated	1.7210e−04
CV Expr by Celltype	Unfiltered	protophloem ERS+	bewick_group	CHG vs Unmethylated	2.8895e−02
CV Expr by Celltype	Unfiltered	metaphloem ERS+	bewick_group	Overall (Kruskal–Wallis)	1.7895e−47
CV Expr by Celltype	Unfiltered	metaphloem ERS+	bewick_group	gbM vs Unmethylated	5.1001e−32
CV Expr by Celltype	Unfiltered	metaphloem ERS+	bewick_group	CHH vs Unmethylated	1.5723e−15
CV Expr by Celltype	Unfiltered	metaphloem ERS+	bewick_group	CHG vs Unmethylated	1.1230e−02
CV Expr by Celltype	Unfiltered	metaxylem ERS+	bewick_group	Overall (Kruskal–Wallis)	6.3322e−70
CV Expr by Celltype	Unfiltered	metaxylem ERS+	bewick_group	gbM vs Unmethylated	5.8578e−52
CV Expr by Celltype	Unfiltered	metaxylem ERS+	bewick_group	CHH vs Unmethylated	1.5653e−16
CV Expr by Celltype	Unfiltered	metaxylem ERS+	bewick_group	CHG vs Unmethylated	1.1835e−03
CV Expr by Celltype	Unfiltered	protoxylem early	bewick_group	Overall (Kruskal–Wallis)	1.1327e−23
CV Expr by Celltype	Unfiltered	protoxylem early	bewick_group	gbM vs Unmethylated	4.7665e−18
CV Expr by Celltype	Unfiltered	protoxylem early	bewick_group	CHH vs Unmethylated	1.2727e−07
CV Expr by Celltype	Unfiltered	protoxylem early	bewick_group	CHG vs Unmethylated	1.7834e−01
CV Expr by Celltype	Unfiltered	protoxylem ERS−	bewick_group	Overall (Kruskal–Wallis)	2.0383e−08
CV Expr by Celltype	Unfiltered	protoxylem ERS−	bewick_group	gbM vs Unmethylated	2.3862e−05
CV Expr by Celltype	Unfiltered	protoxylem ERS−	bewick_group	CHH vs Unmethylated	6.0530e−06
CV Expr by Celltype	Unfiltered	protoxylem ERS−	bewick_group	CHG vs Unmethylated	5.8829e−01
CV Expr by Celltype	Unfiltered	metaxylem ERS−	bewick_group	Overall (Kruskal–Wallis)	6.1741e−10
CV Expr by Celltype	Unfiltered	metaxylem ERS−	bewick_group	gbM vs Unmethylated	1.0140e−05
CV Expr by Celltype	Unfiltered	metaxylem ERS−	bewick_group	CHH vs Unmethylated	1.9878e−05
CV Expr by Celltype	Unfiltered	metaxylem ERS−	bewick_group	CHG vs Unmethylated	2.5175e−02
CV Expr by Celltype	Unfiltered	protoxylem ERS+	bewick_group	Overall (Kruskal–Wallis)	1.3788e−06
CV Expr by Celltype	Unfiltered	protoxylem ERS+	bewick_group	gbM vs Unmethylated	3.6606e−03
CV Expr by Celltype	Unfiltered	protoxylem ERS+	bewick_group	CHH vs Unmethylated	9.2861e−06
CV Expr by Celltype	Unfiltered	protoxylem ERS+	bewick_group	CHG vs Unmethylated	7.0205e−01