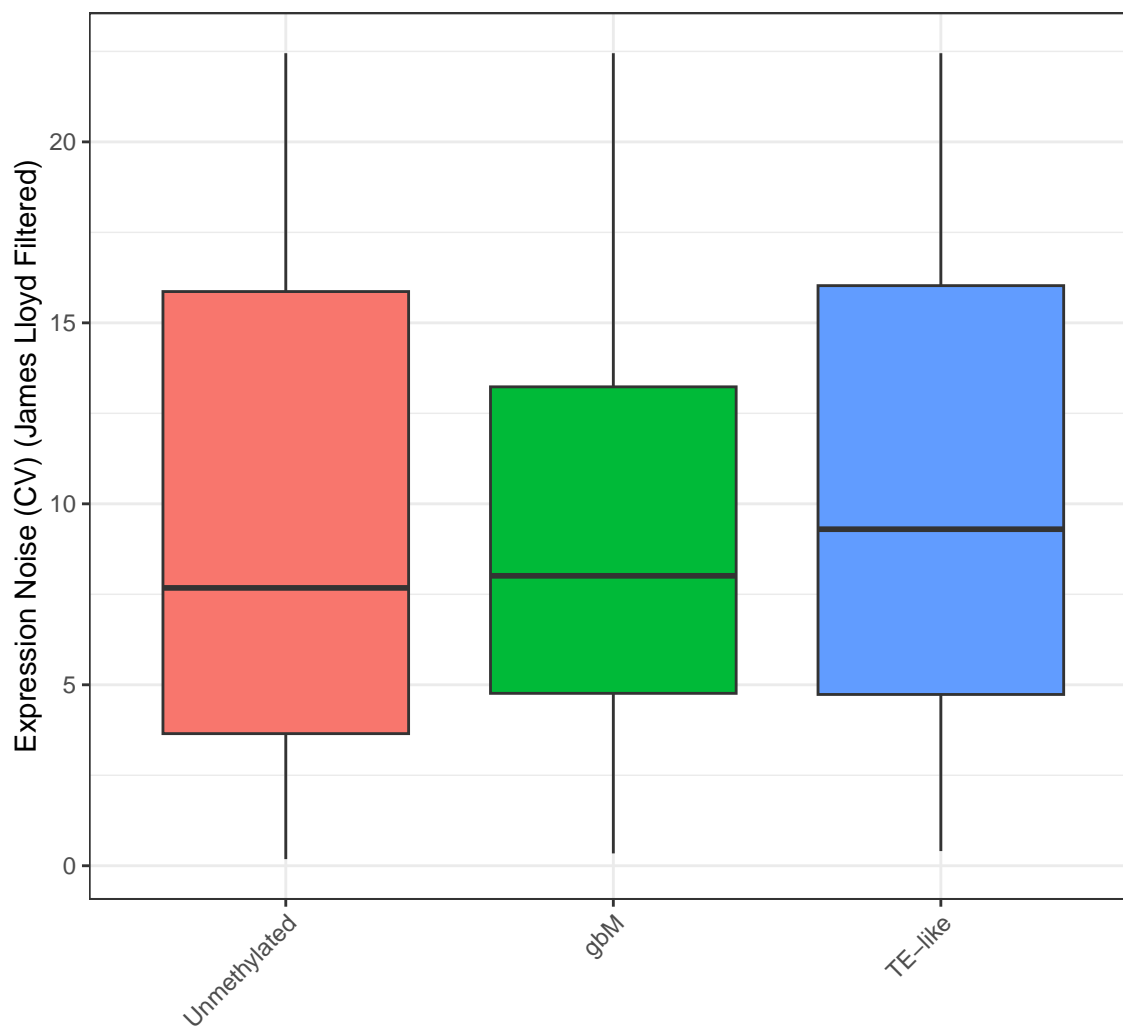


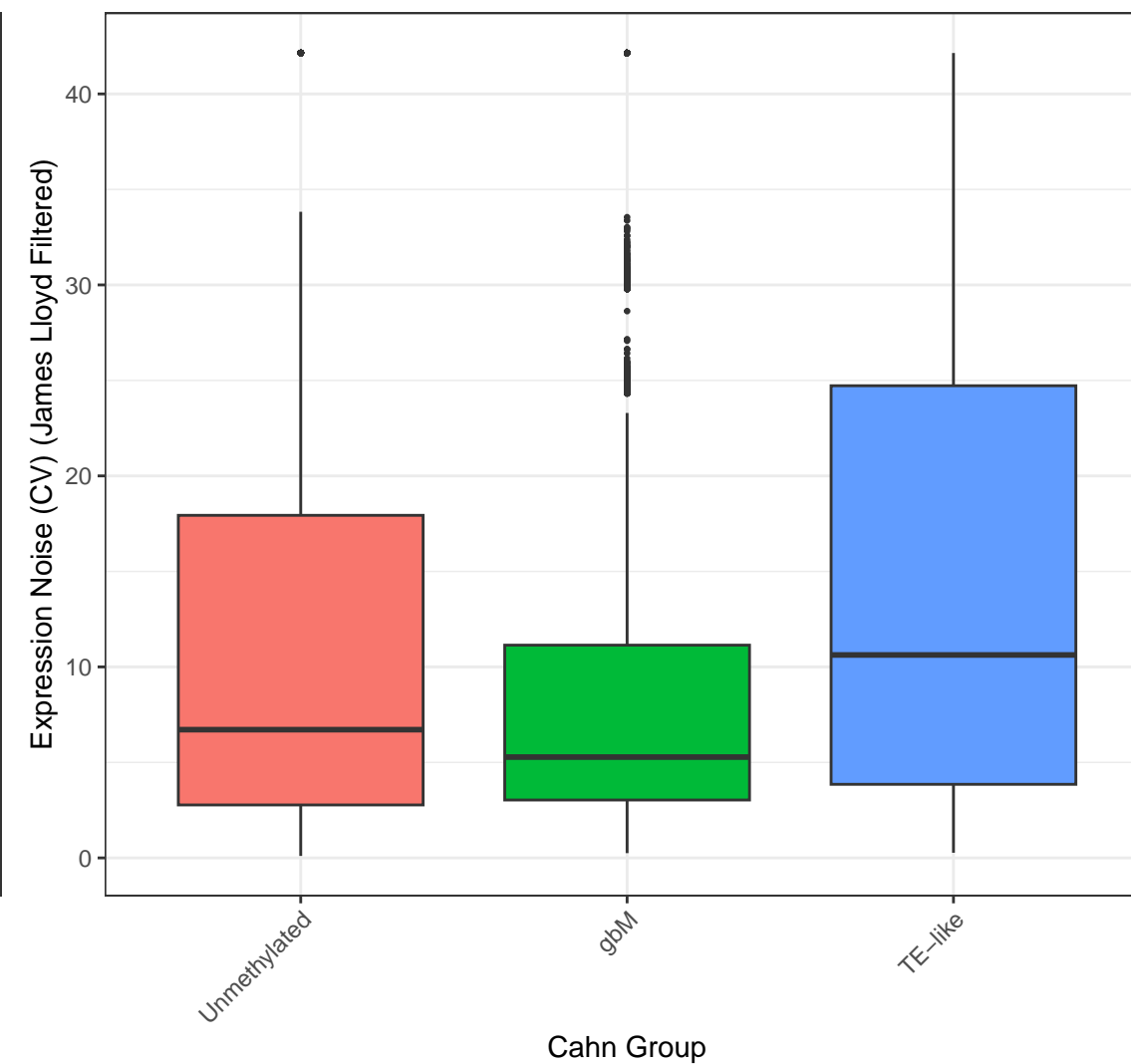


### Cahn Group in border cells

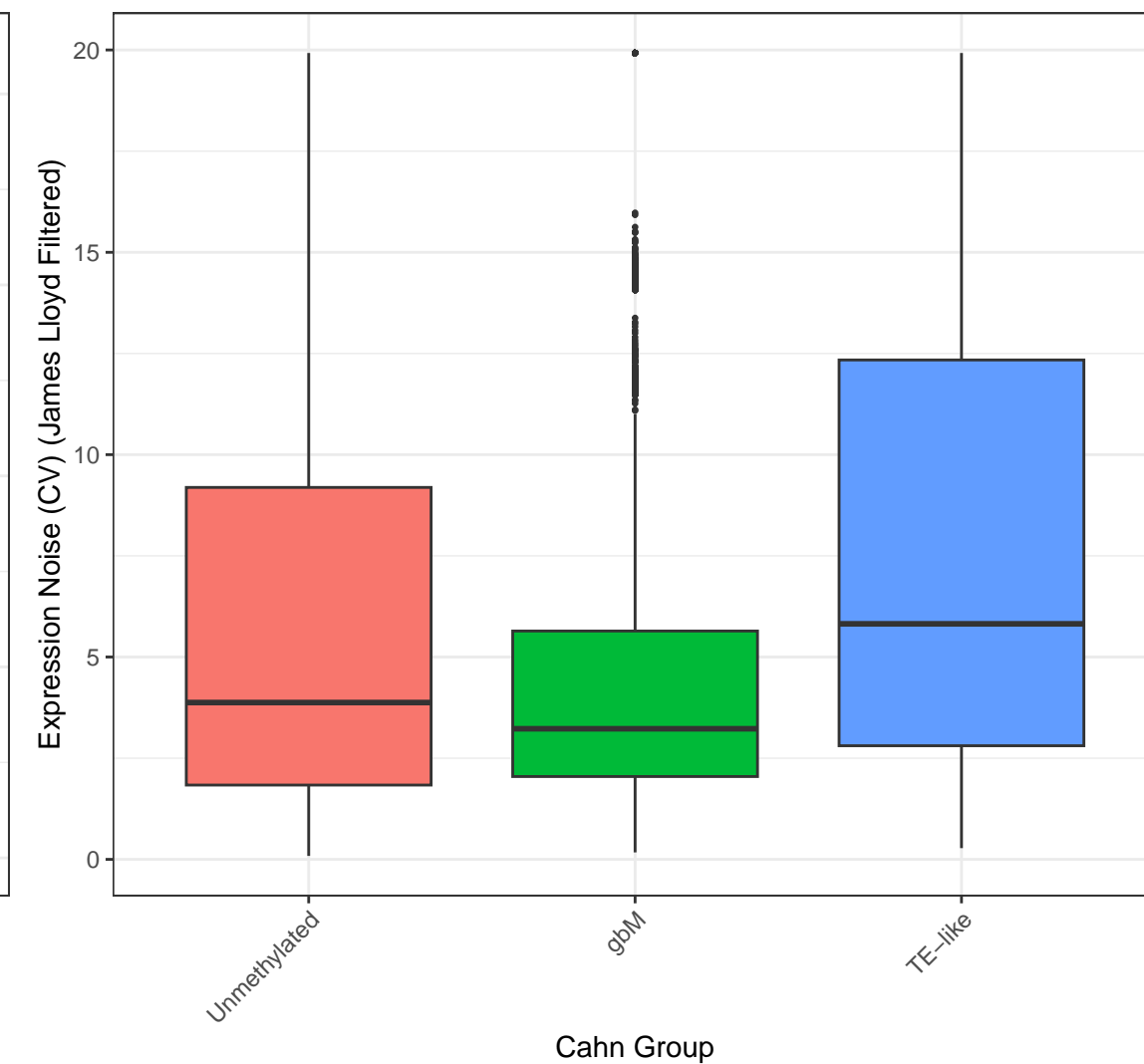


Cahn Group in root cap tip

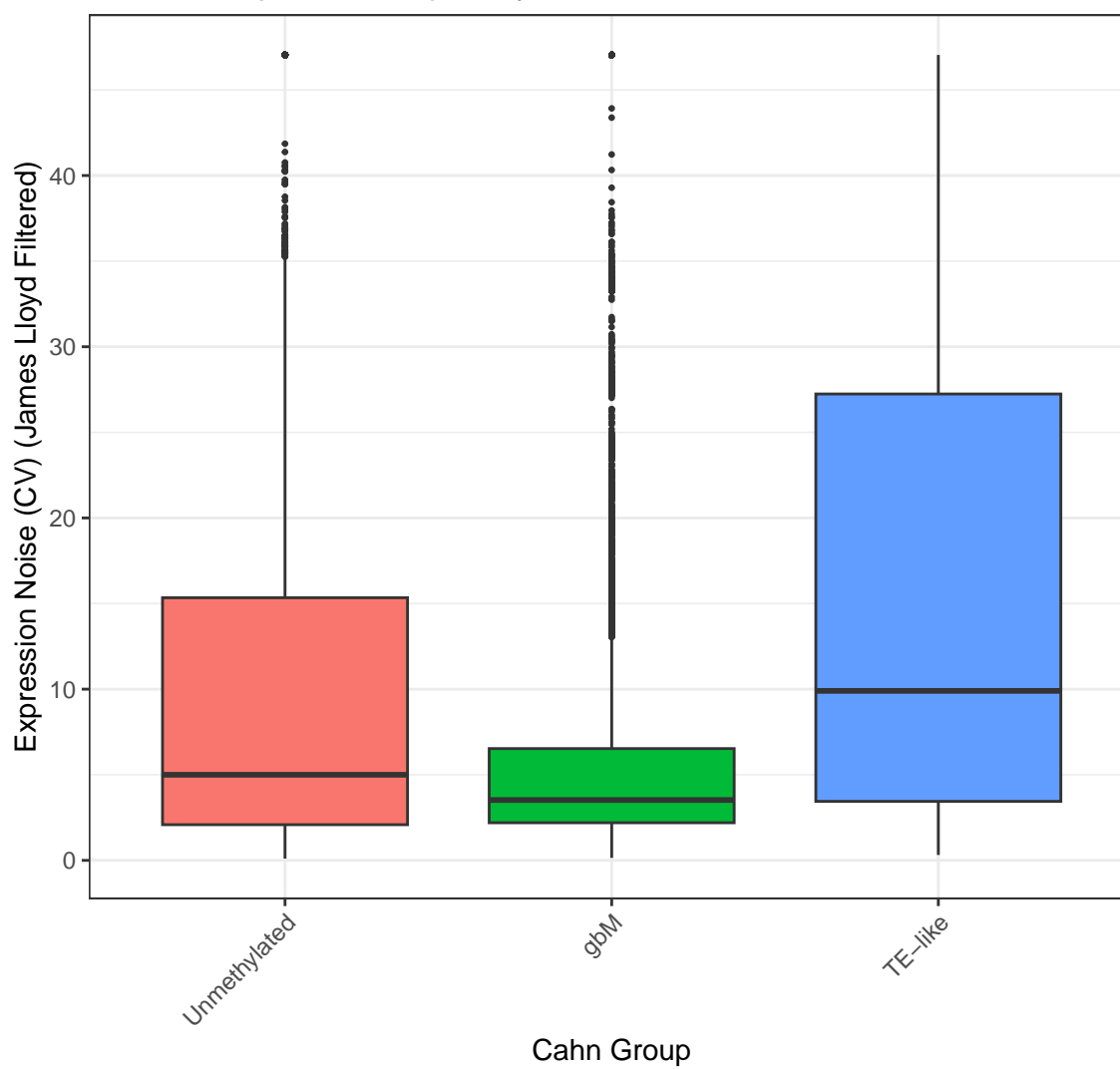
Cahn Group in root cap tip



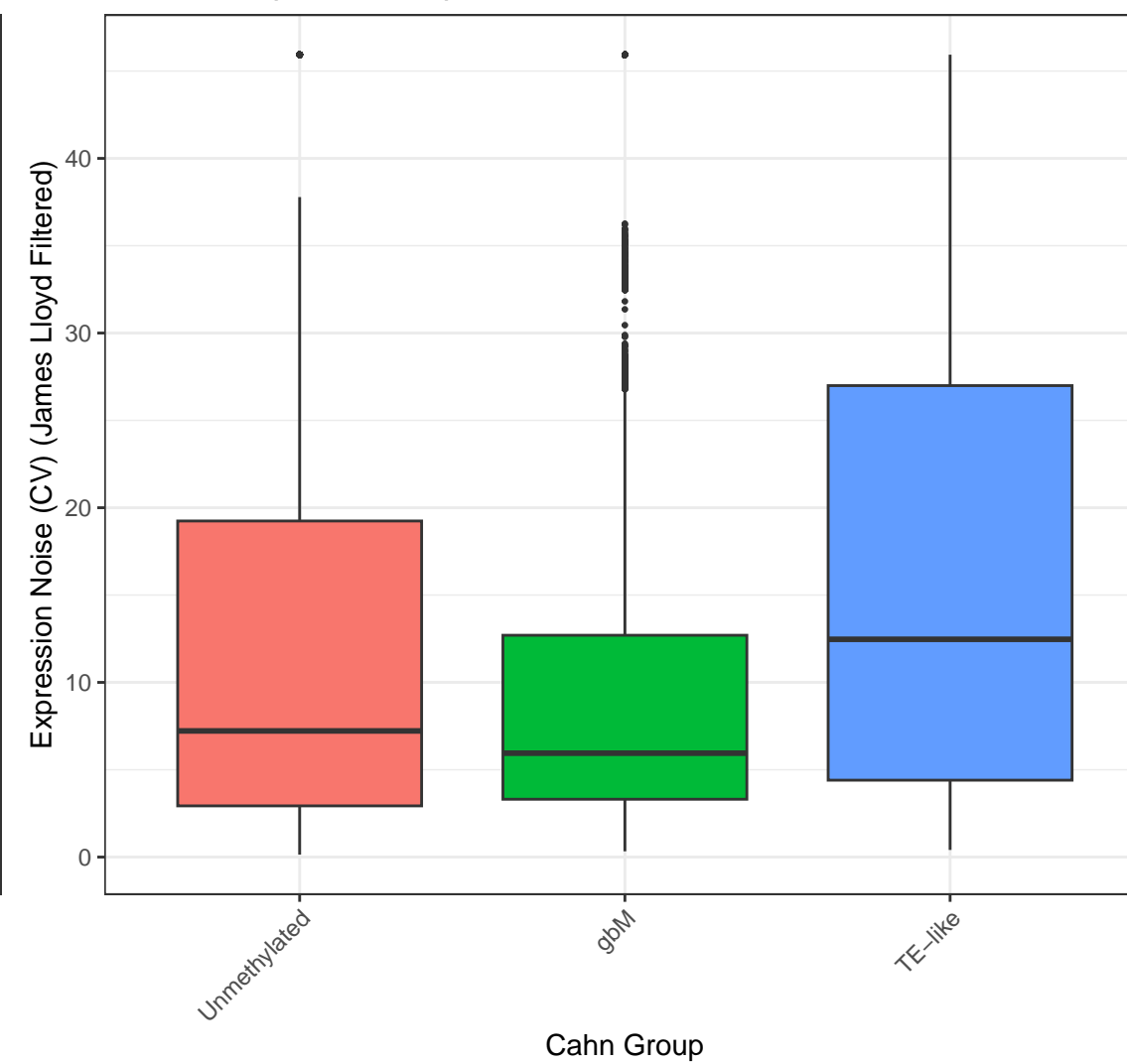
Cahn Group in columella



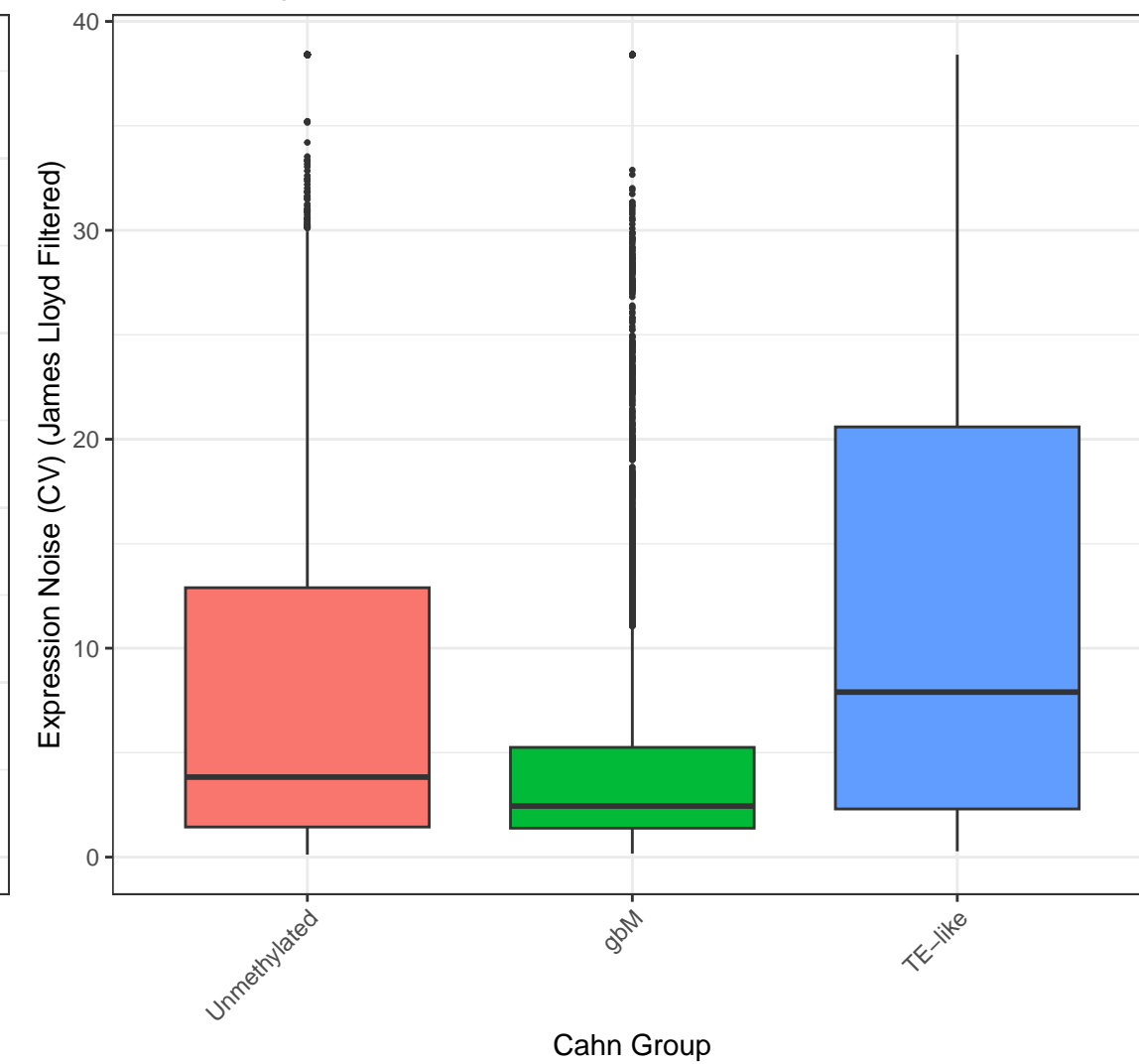
Cahn Group in root cap early

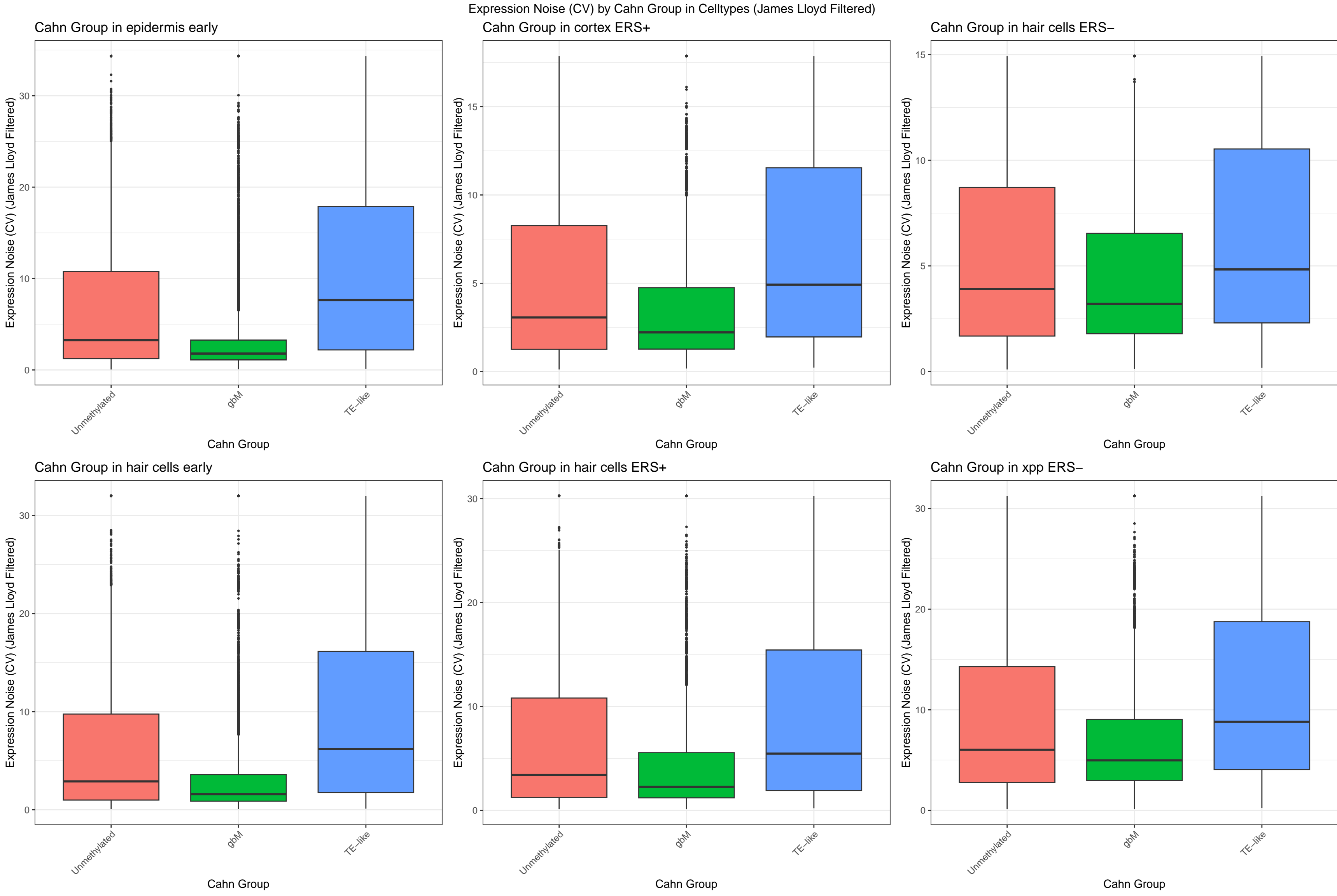


Cahn Group in root cap lateral

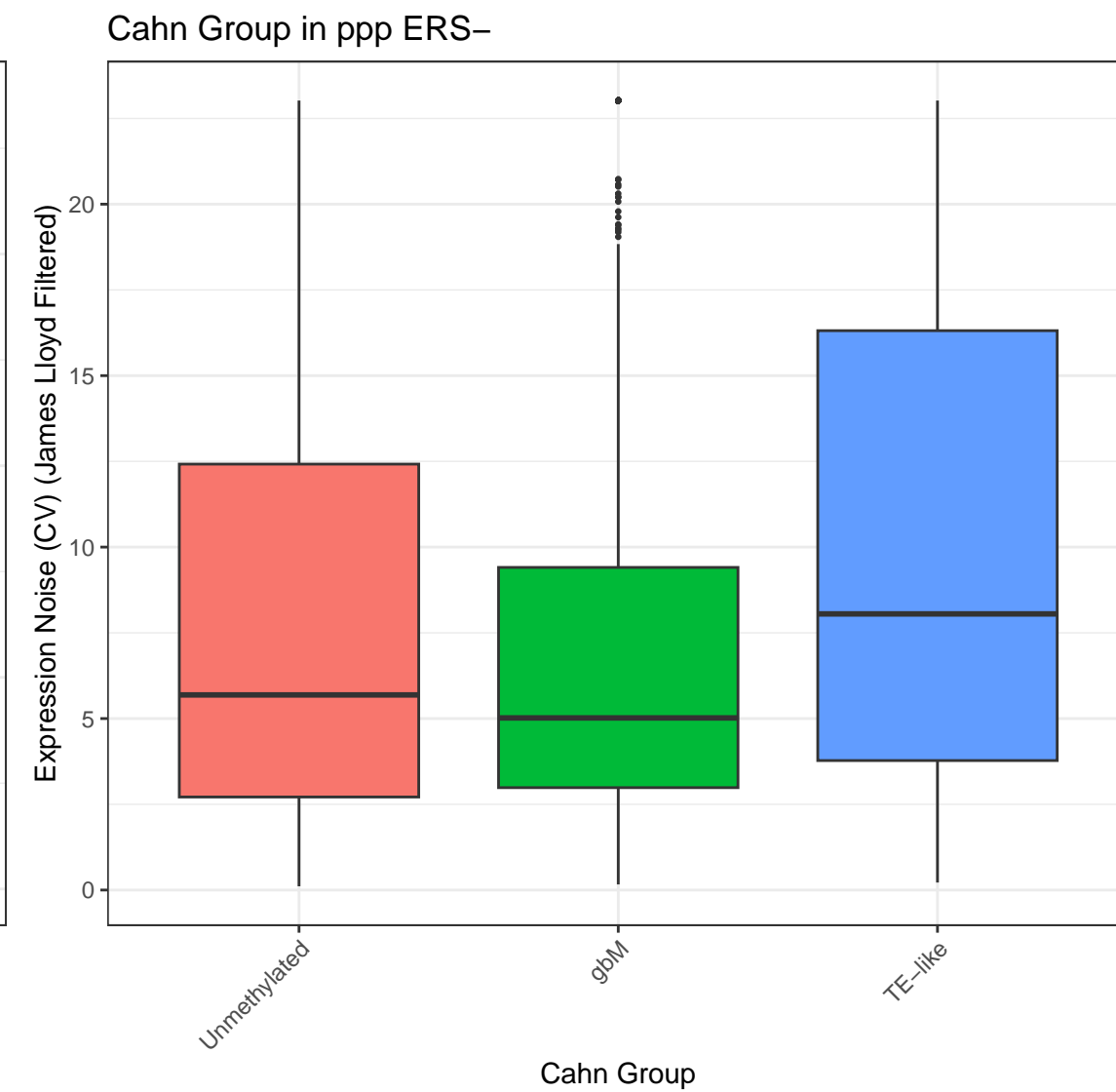
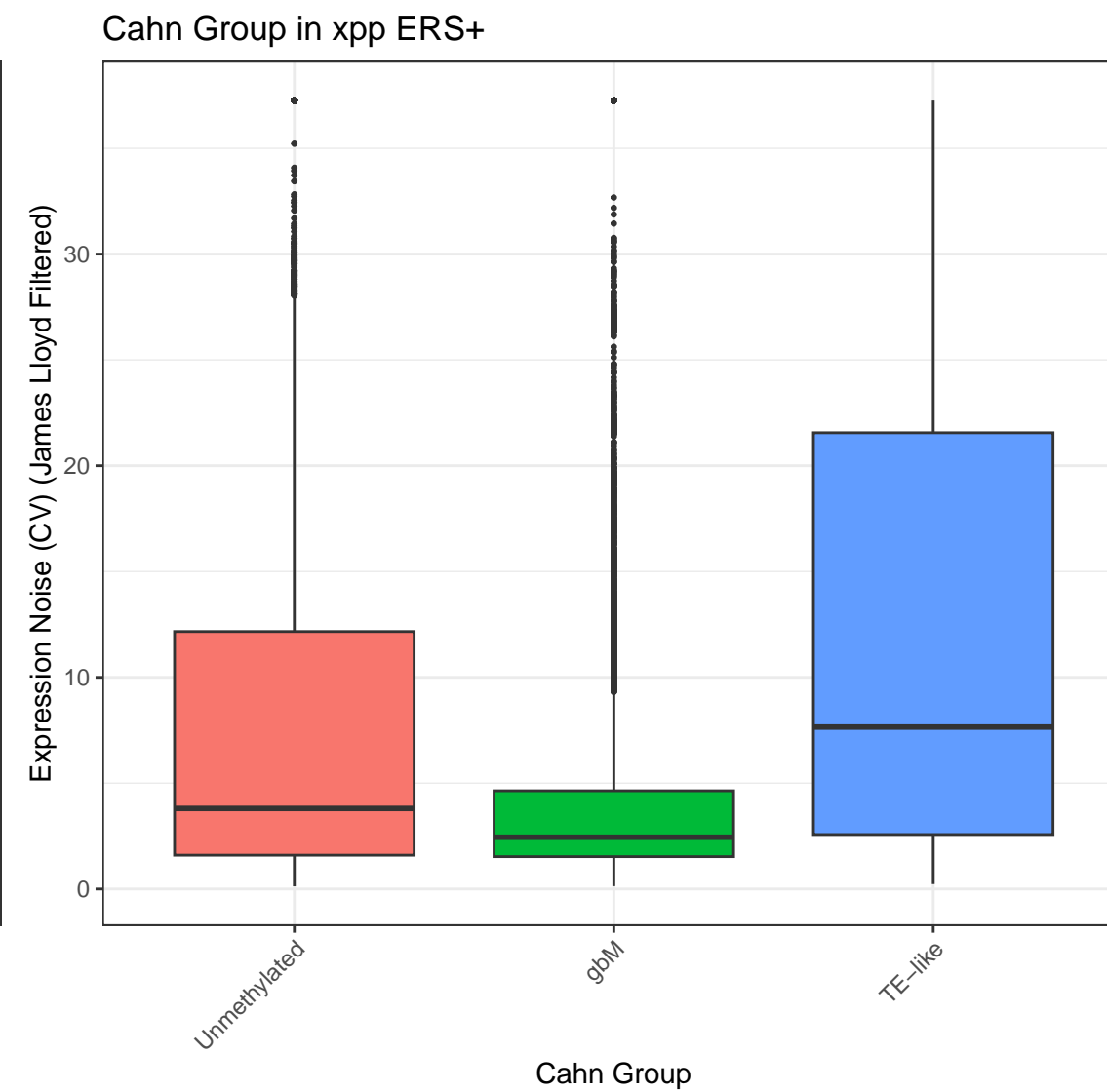
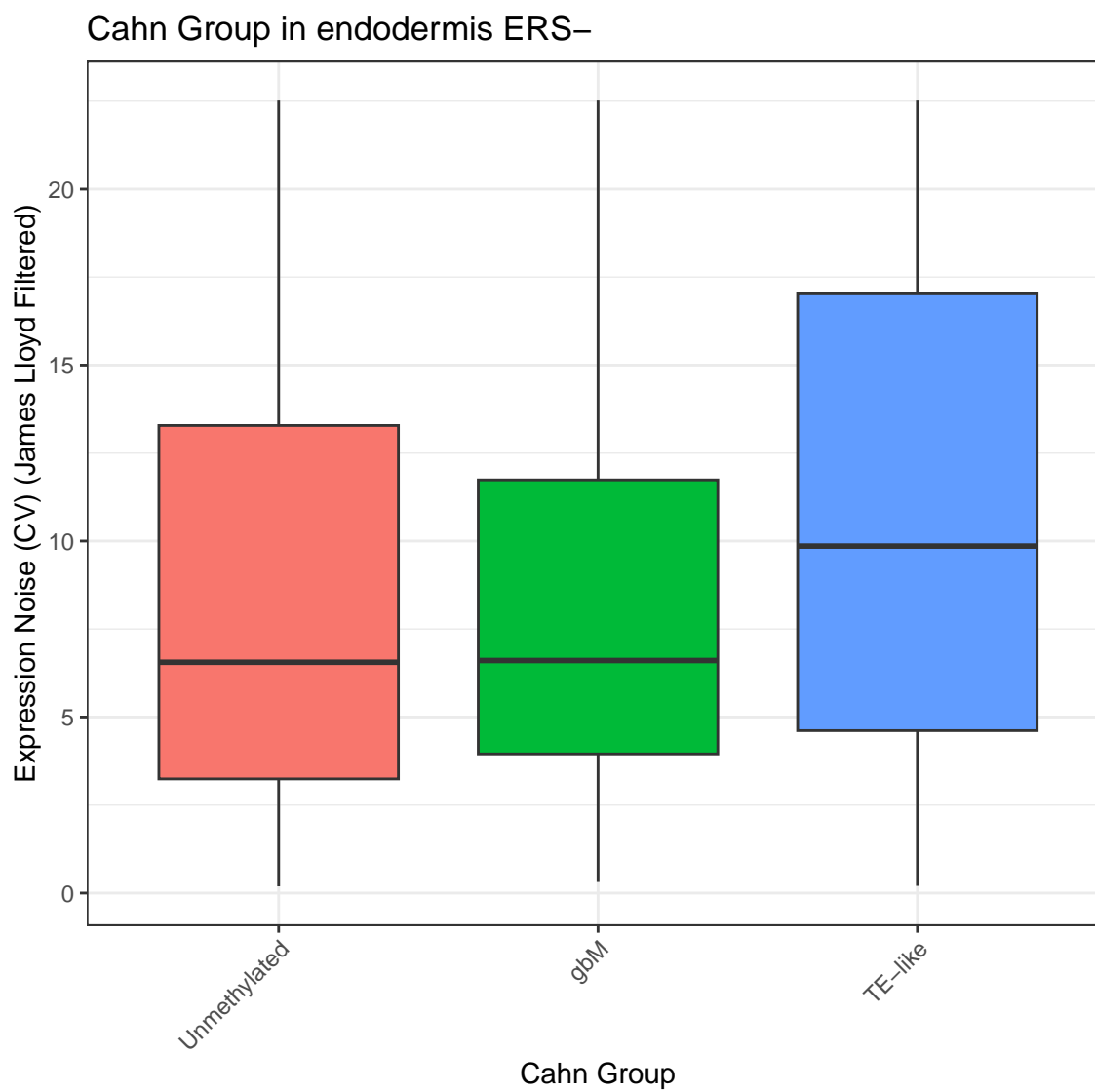
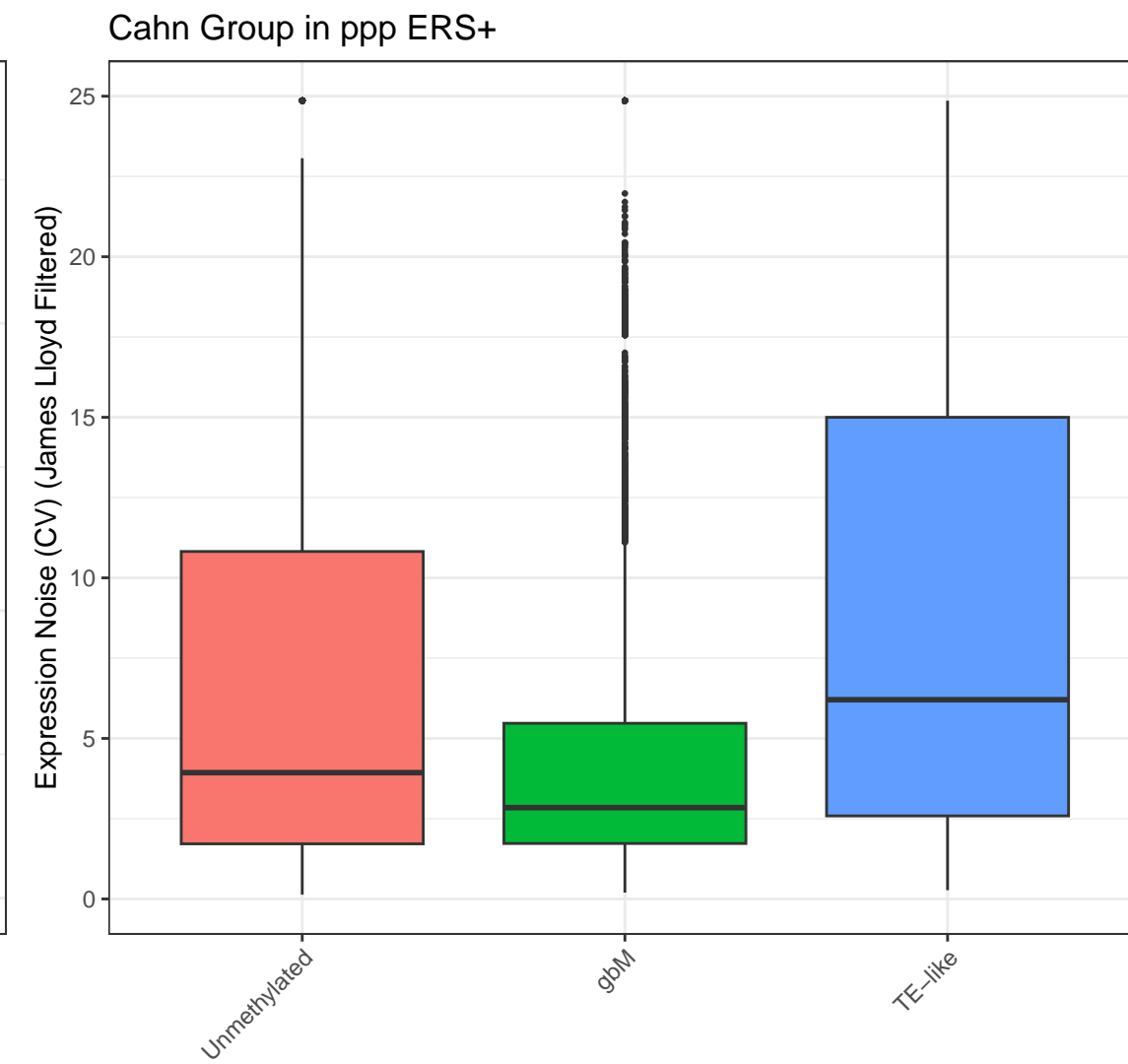
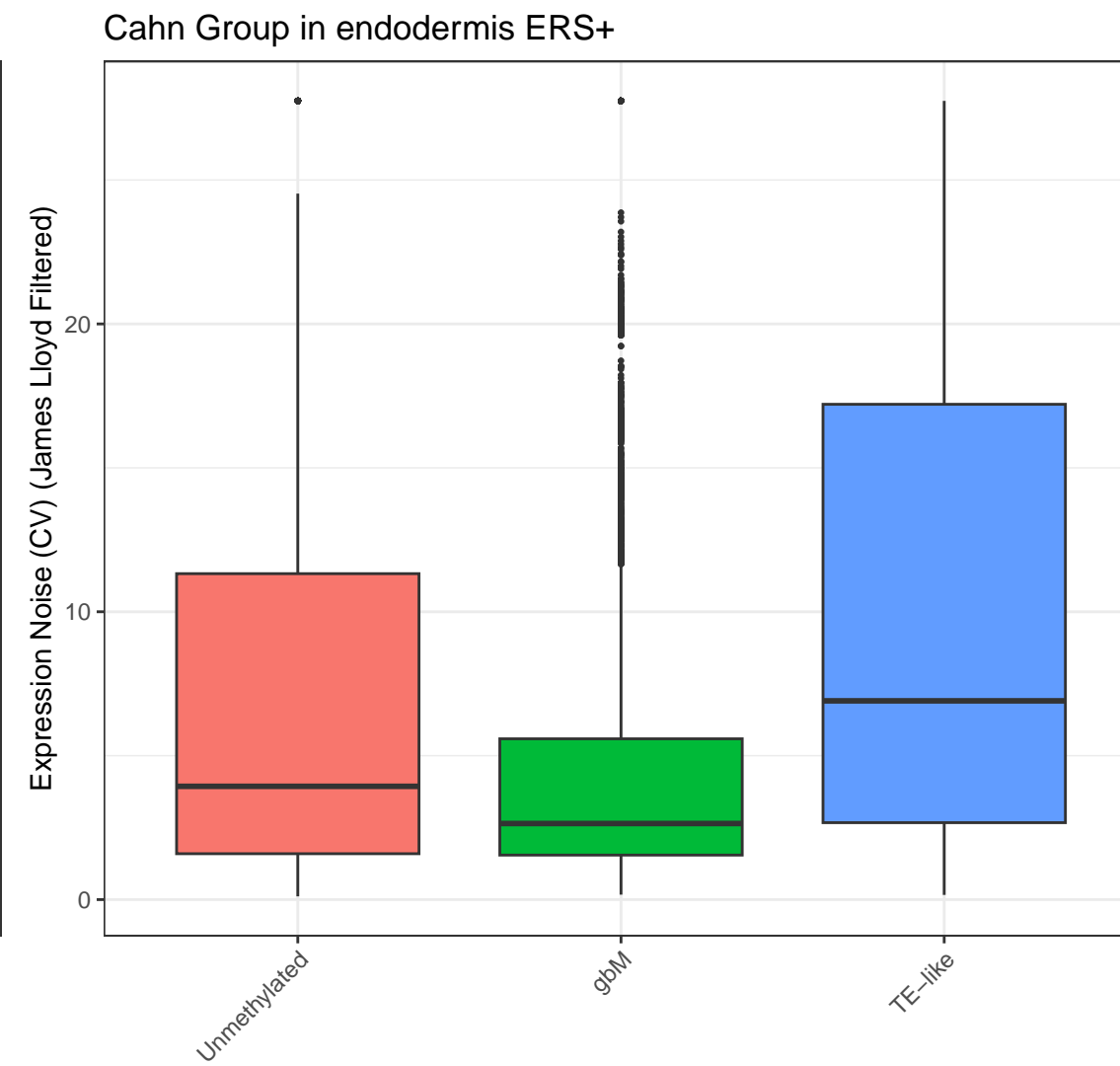
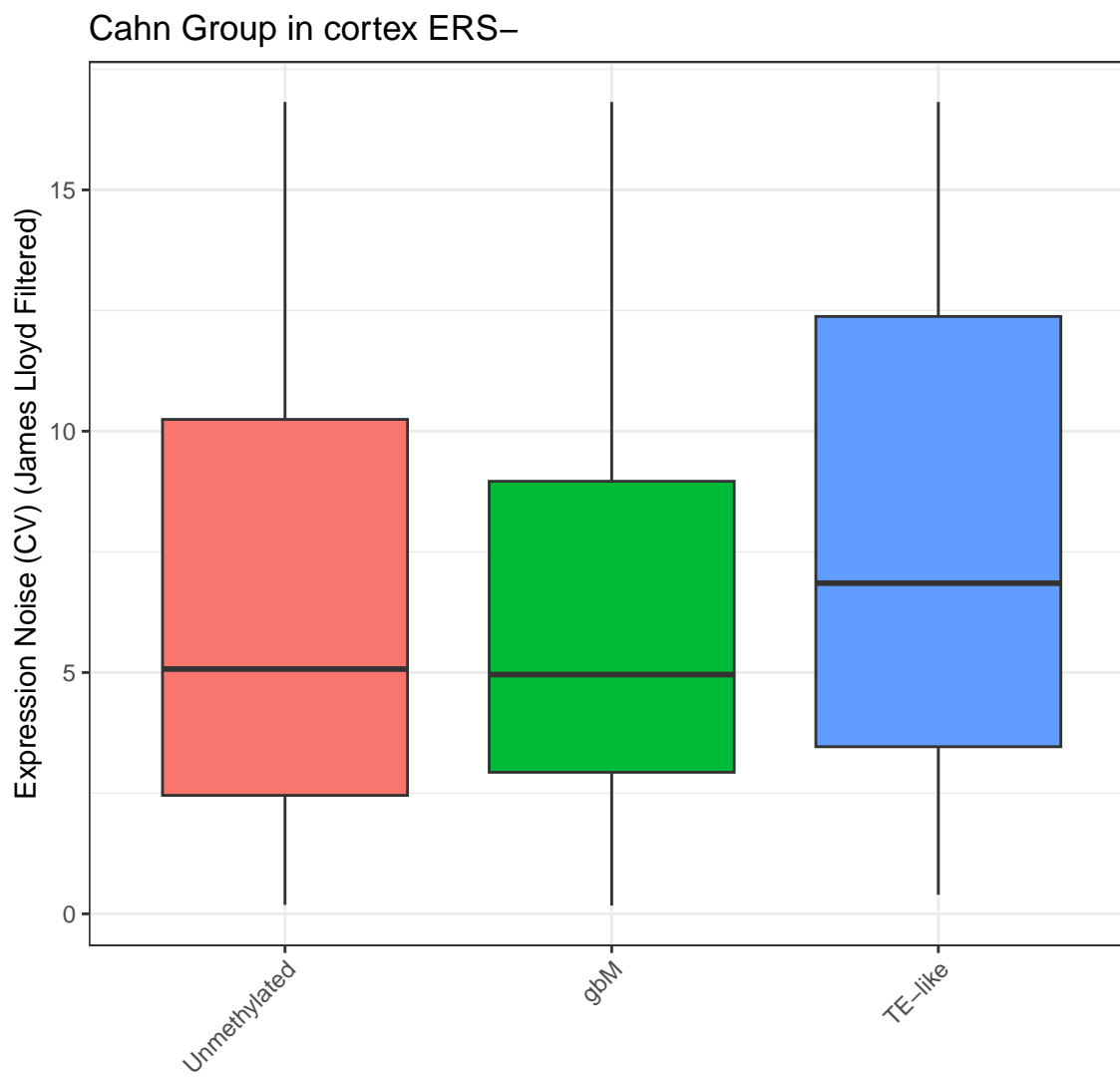


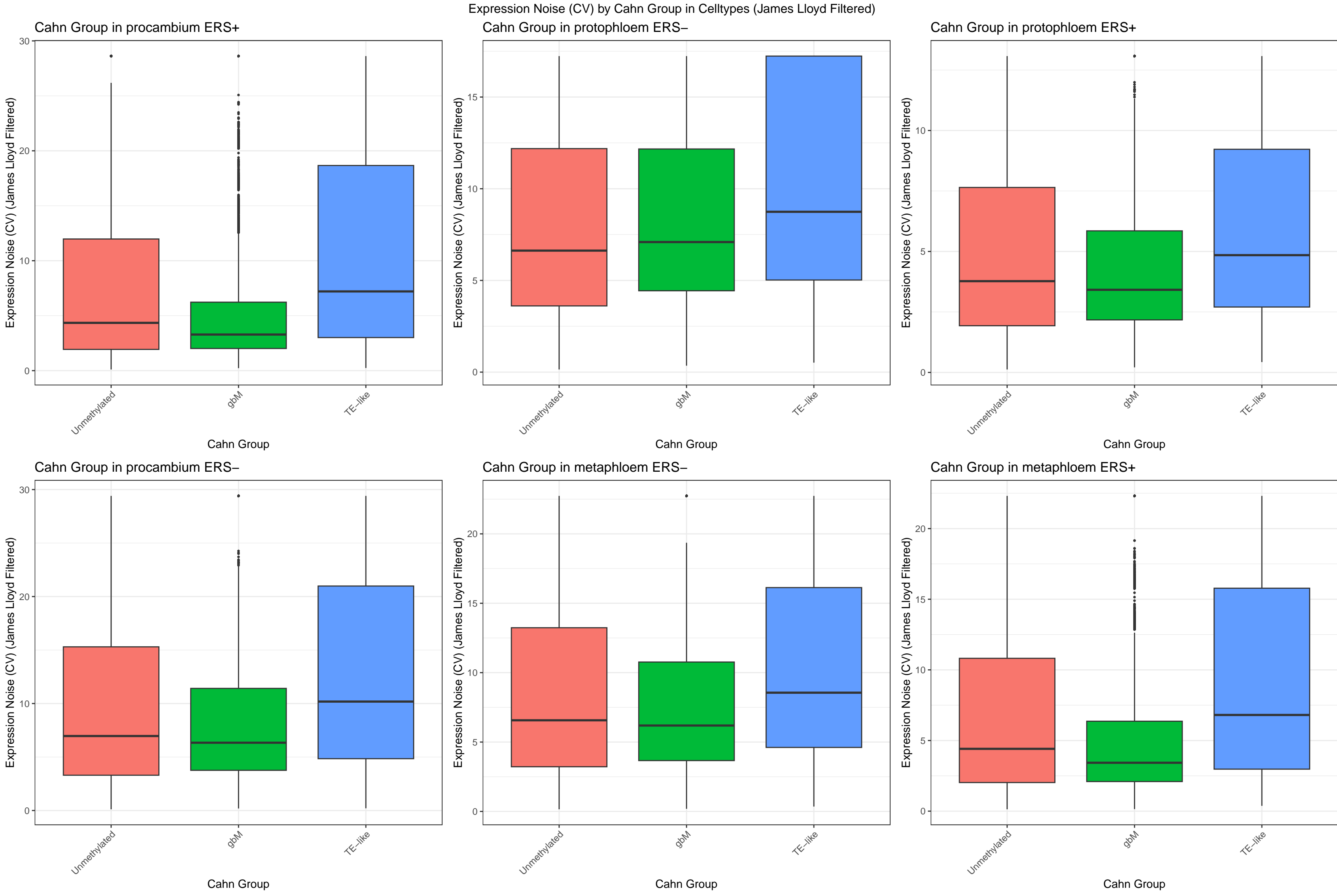
### Cahn Group in non-hair cells

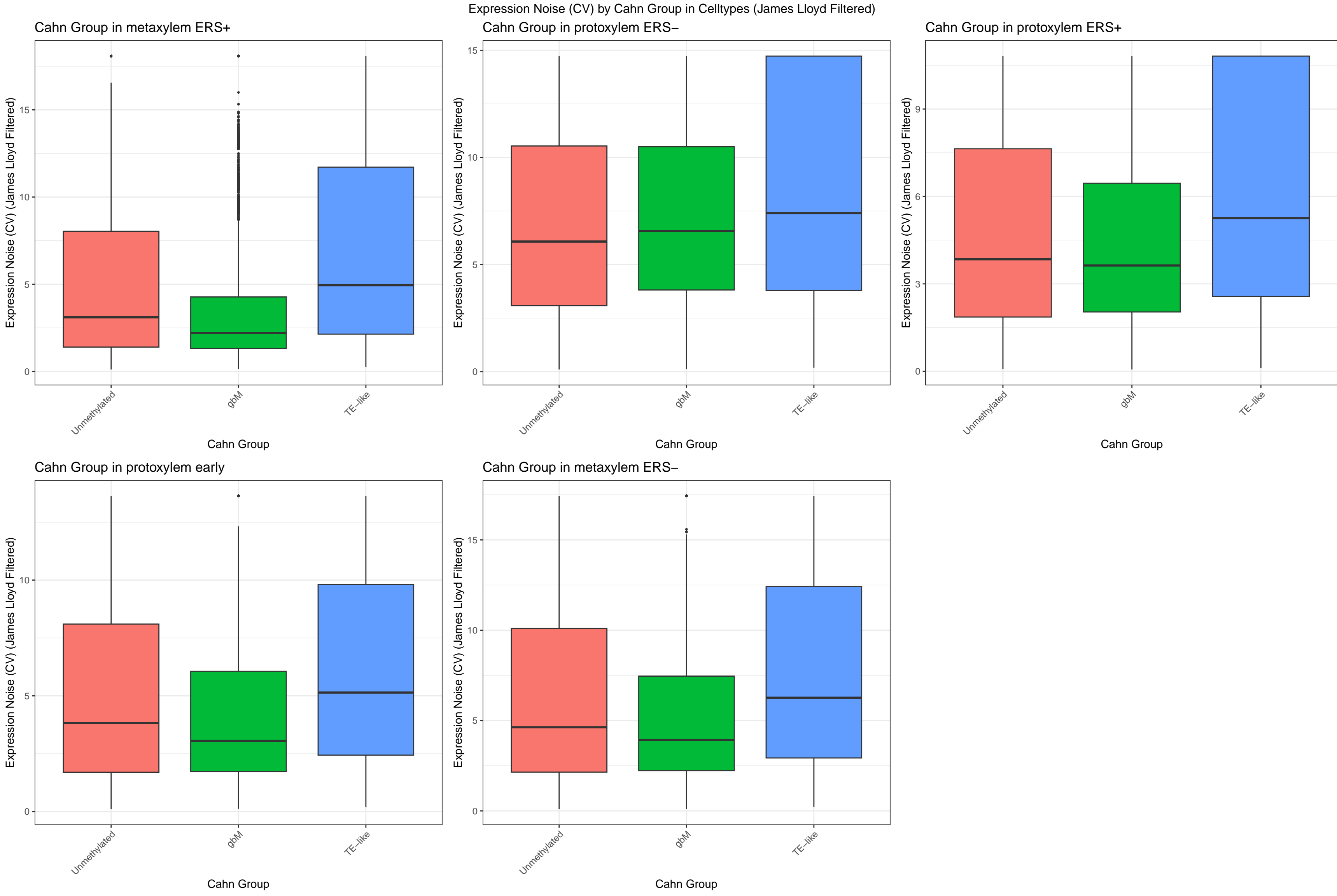




Expression Noise (CV) by Cahn Group in Celltypes (James Lloyd Filtered)









Statistical Comparisons for Expression Noise (CV) by Cahn Group in Celltypes (James Lloyd Filtered)

| Context             | Filter_Tag           | Specific_Context | Group_Type | Comparison               | P_value_Formatted |
|---------------------|----------------------|------------------|------------|--------------------------|-------------------|
| CV Expr by Celltype | James Lloyd Filtered | border cells     | cahn_group | Overall (Kruskal–Wallis) | 2.2433e−09        |
| CV Expr by Celltype | James Lloyd Filtered | border cells     | cahn_group | gbM vs Unmethylated      | 1.4878e−07        |
| CV Expr by Celltype | James Lloyd Filtered | border cells     | cahn_group | TE–like vs Unmethylated  | 2.3956e−05        |
| CV Expr by Celltype | James Lloyd Filtered | root cap early   | cahn_group | Overall (Kruskal–Wallis) | 1.0761e−117       |
| CV Expr by Celltype | James Lloyd Filtered | root cap early   | cahn_group | gbM vs Unmethylated      | 1.1844e−68        |
| CV Expr by Celltype | James Lloyd Filtered | root cap early   | cahn_group | TE–like vs Unmethylated  | 2.1877e−26        |
| CV Expr by Celltype | James Lloyd Filtered | root cap tip     | cahn_group | Overall (Kruskal–Wallis) | 6.7129e−38        |
| CV Expr by Celltype | James Lloyd Filtered | root cap tip     | cahn_group | gbM vs Unmethylated      | 3.3083e−19        |
| CV Expr by Celltype | James Lloyd Filtered | root cap tip     | cahn_group | TE–like vs Unmethylated  | 1.6519e−12        |
| CV Expr by Celltype | James Lloyd Filtered | root cap lateral | cahn_group | Overall (Kruskal–Wallis) | 1.3377e−34        |
| CV Expr by Celltype | James Lloyd Filtered | root cap lateral | cahn_group | gbM vs Unmethylated      | 1.3735e−12        |
| CV Expr by Celltype | James Lloyd Filtered | root cap lateral | cahn_group | TE–like vs Unmethylated  | 5.2793e−16        |
| CV Expr by Celltype | James Lloyd Filtered | columella        | cahn_group | Overall (Kruskal–Wallis) | 7.9457e−43        |
| CV Expr by Celltype | James Lloyd Filtered | columella        | cahn_group | gbM vs Unmethylated      | 1.2817e−20        |
| CV Expr by Celltype | James Lloyd Filtered | columella        | cahn_group | TE–like vs Unmethylated  | 3.3094e−14        |
| CV Expr by Celltype | James Lloyd Filtered | non–hair cells   | cahn_group | Overall (Kruskal–Wallis) | 2.2976e−133       |
| CV Expr by Celltype | James Lloyd Filtered | non–hair cells   | cahn_group | gbM vs Unmethylated      | 1.3080e−86        |
| CV Expr by Celltype | James Lloyd Filtered | non–hair cells   | cahn_group | TE–like vs Unmethylated  | 8.7031e−24        |
| CV Expr by Celltype | James Lloyd Filtered | epidermis early  | cahn_group | Overall (Kruskal–Wallis) | 4.2916e−256       |
| CV Expr by Celltype | James Lloyd Filtered | epidermis early  | cahn_group | gbM vs Unmethylated      | 9.8909e−187       |
| CV Expr by Celltype | James Lloyd Filtered | epidermis early  | cahn_group | TE–like vs Unmethylated  | 2.1087e−30        |
| CV Expr by Celltype | James Lloyd Filtered | hair cells early | cahn_group | Overall (Kruskal–Wallis) | 1.5799e−186       |
| CV Expr by Celltype | James Lloyd Filtered | hair cells early | cahn_group | gbM vs Unmethylated      | 1.2545e−130       |
| CV Expr by Celltype | James Lloyd Filtered | hair cells early | cahn_group | TE–like vs Unmethylated  | 1.4365e−25        |
| CV Expr by Celltype | James Lloyd Filtered | cortex ERS+      | cahn_group | Overall (Kruskal–Wallis) | 8.4947e−69        |
| CV Expr by Celltype | James Lloyd Filtered | cortex ERS+      | cahn_group | gbM vs Unmethylated      | 1.6830e−42        |
| CV Expr by Celltype | James Lloyd Filtered | cortex ERS+      | cahn_group | TE–like vs Unmethylated  | 1.0782e−14        |
| CV Expr by Celltype | James Lloyd Filtered | hair cells ERS+  | cahn_group | Overall (Kruskal–Wallis) | 8.4649e−86        |
| CV Expr by Celltype | James Lloyd Filtered | hair cells ERS+  | cahn_group | gbM vs Unmethylated      | 1.5641e−58        |
| CV Expr by Celltype | James Lloyd Filtered | hair cells ERS+  | cahn_group | TE–like vs Unmethylated  | 6.8005e−14        |



Statistical Comparisons for Expression Noise (CV) by Cahn Group in Celltypes (James Lloyd Filtered)

| Context             | Filter_Tag           | Specific_Context | Group_Type | Comparison               | P_value_Formatted |
|---------------------|----------------------|------------------|------------|--------------------------|-------------------|
| CV Expr by Celltype | James Lloyd Filtered | hair cells ERS-  | cahn_group | Overall (Kruskal-Wallis) | 1.8195e-21        |
| CV Expr by Celltype | James Lloyd Filtered | hair cells ERS-  | cahn_group | gbM vs Unmethylated      | 3.4964e-12        |
| CV Expr by Celltype | James Lloyd Filtered | hair cells ERS-  | cahn_group | TE-like vs Unmethylated  | 4.2159e-07        |
| CV Expr by Celltype | James Lloyd Filtered | xpp ERS-         | cahn_group | Overall (Kruskal-Wallis) | 1.0814e-43        |
| CV Expr by Celltype | James Lloyd Filtered | xpp ERS-         | cahn_group | gbM vs Unmethylated      | 7.7915e-23        |
| CV Expr by Celltype | James Lloyd Filtered | xpp ERS-         | cahn_group | TE-like vs Unmethylated  | 3.4236e-13        |
| CV Expr by Celltype | James Lloyd Filtered | cortex ERS-      | cahn_group | Overall (Kruskal-Wallis) | 4.5759e-11        |
| CV Expr by Celltype | James Lloyd Filtered | cortex ERS-      | cahn_group | gbM vs Unmethylated      | 4.6858e-01        |
| CV Expr by Celltype | James Lloyd Filtered | cortex ERS-      | cahn_group | TE-like vs Unmethylated  | 8.8389e-11        |
| CV Expr by Celltype | James Lloyd Filtered | endodermis ERS-  | cahn_group | Overall (Kruskal-Wallis) | 9.1204e-16        |
| CV Expr by Celltype | James Lloyd Filtered | endodermis ERS-  | cahn_group | gbM vs Unmethylated      | 1.4227e-02        |
| CV Expr by Celltype | James Lloyd Filtered | endodermis ERS-  | cahn_group | TE-like vs Unmethylated  | 4.1535e-15        |
| CV Expr by Celltype | James Lloyd Filtered | endodermis ERS+  | cahn_group | Overall (Kruskal-Wallis) | 1.0813e-105       |
| CV Expr by Celltype | James Lloyd Filtered | endodermis ERS+  | cahn_group | gbM vs Unmethylated      | 6.5447e-68        |
| CV Expr by Celltype | James Lloyd Filtered | endodermis ERS+  | cahn_group | TE-like vs Unmethylated  | 1.6524e-19        |
| CV Expr by Celltype | James Lloyd Filtered | xpp ERS+         | cahn_group | Overall (Kruskal-Wallis) | 1.1886e-163       |
| CV Expr by Celltype | James Lloyd Filtered | xpp ERS+         | cahn_group | gbM vs Unmethylated      | 2.2330e-110       |
| CV Expr by Celltype | James Lloyd Filtered | xpp ERS+         | cahn_group | TE-like vs Unmethylated  | 4.8095e-26        |
| CV Expr by Celltype | James Lloyd Filtered | ppp ERS+         | cahn_group | Overall (Kruskal-Wallis) | 9.7727e-91        |
| CV Expr by Celltype | James Lloyd Filtered | ppp ERS+         | cahn_group | gbM vs Unmethylated      | 6.0823e-60        |
| CV Expr by Celltype | James Lloyd Filtered | ppp ERS+         | cahn_group | TE-like vs Unmethylated  | 5.4630e-16        |
| CV Expr by Celltype | James Lloyd Filtered | ppp ERS-         | cahn_group | Overall (Kruskal-Wallis) | 3.2098e-21        |
| CV Expr by Celltype | James Lloyd Filtered | ppp ERS-         | cahn_group | gbM vs Unmethylated      | 8.9209e-08        |
| CV Expr by Celltype | James Lloyd Filtered | ppp ERS-         | cahn_group | TE-like vs Unmethylated  | 1.3983e-10        |
| CV Expr by Celltype | James Lloyd Filtered | procambium ERS+  | cahn_group | Overall (Kruskal-Wallis) | 1.6421e-78        |
| CV Expr by Celltype | James Lloyd Filtered | procambium ERS+  | cahn_group | gbM vs Unmethylated      | 1.6697e-46        |
| CV Expr by Celltype | James Lloyd Filtered | procambium ERS+  | cahn_group | TE-like vs Unmethylated  | 4.1139e-18        |
| CV Expr by Celltype | James Lloyd Filtered | procambium ERS-  | cahn_group | Overall (Kruskal-Wallis) | 7.5508e-22        |
| CV Expr by Celltype | James Lloyd Filtered | procambium ERS-  | cahn_group | gbM vs Unmethylated      | 8.6428e-06        |
| CV Expr by Celltype | James Lloyd Filtered | procambium ERS-  | cahn_group | TE-like vs Unmethylated  | 3.5535e-13        |

Statistical Comparisons for Expression Noise (CV) by Cahn Group in Celltypes (James Lloyd Filtered)

| Context             | Filter_Tag           | Specific_Context | Group_Type | Comparison               | P_value_Formatted |
|---------------------|----------------------|------------------|------------|--------------------------|-------------------|
| CV Expr by Celltype | James Lloyd Filtered | protophloem ERS- | cahn_group | Overall (Kruskal-Wallis) | 5.0180e-16        |
| CV Expr by Celltype | James Lloyd Filtered | protophloem ERS- | cahn_group | gbM vs Unmethylated      | 6.7741e-09        |
| CV Expr by Celltype | James Lloyd Filtered | protophloem ERS- | cahn_group | TE-like vs Unmethylated  | 1.4903e-11        |
| CV Expr by Celltype | James Lloyd Filtered | metaphloem ERS-  | cahn_group | Overall (Kruskal-Wallis) | 9.3802e-13        |
| CV Expr by Celltype | James Lloyd Filtered | metaphloem ERS-  | cahn_group | gbM vs Unmethylated      | 8.2491e-02        |
| CV Expr by Celltype | James Lloyd Filtered | metaphloem ERS-  | cahn_group | TE-like vs Unmethylated  | 1.8614e-10        |
| CV Expr by Celltype | James Lloyd Filtered | protophloem ERS+ | cahn_group | Overall (Kruskal-Wallis) | 1.0857e-15        |
| CV Expr by Celltype | James Lloyd Filtered | protophloem ERS+ | cahn_group | gbM vs Unmethylated      | 5.5541e-06        |
| CV Expr by Celltype | James Lloyd Filtered | protophloem ERS+ | cahn_group | TE-like vs Unmethylated  | 6.1238e-08        |
| CV Expr by Celltype | James Lloyd Filtered | metaphloem ERS+  | cahn_group | Overall (Kruskal-Wallis) | 6.1710e-62        |
| CV Expr by Celltype | James Lloyd Filtered | metaphloem ERS+  | cahn_group | gbM vs Unmethylated      | 6.3742e-38        |
| CV Expr by Celltype | James Lloyd Filtered | metaphloem ERS+  | cahn_group | TE-like vs Unmethylated  | 9.6543e-14        |
| CV Expr by Celltype | James Lloyd Filtered | metaxylem ERS+   | cahn_group | Overall (Kruskal-Wallis) | 9.1126e-105       |
| CV Expr by Celltype | James Lloyd Filtered | metaxylem ERS+   | cahn_group | gbM vs Unmethylated      | 3.8467e-71        |
| CV Expr by Celltype | James Lloyd Filtered | metaxylem ERS+   | cahn_group | TE-like vs Unmethylated  | 3.0238e-17        |
| CV Expr by Celltype | James Lloyd Filtered | protoxylem early | cahn_group | Overall (Kruskal-Wallis) | 7.9004e-36        |
| CV Expr by Celltype | James Lloyd Filtered | protoxylem early | cahn_group | gbM vs Unmethylated      | 5.4311e-23        |
| CV Expr by Celltype | James Lloyd Filtered | protoxylem early | cahn_group | TE-like vs Unmethylated  | 2.1767e-08        |
| CV Expr by Celltype | James Lloyd Filtered | protoxylem ERS-  | cahn_group | Overall (Kruskal-Wallis) | 7.0012e-09        |
| CV Expr by Celltype | James Lloyd Filtered | protoxylem ERS-  | cahn_group | gbM vs Unmethylated      | 5.5528e-08        |
| CV Expr by Celltype | James Lloyd Filtered | protoxylem ERS-  | cahn_group | TE-like vs Unmethylated  | 2.7707e-04        |
| CV Expr by Celltype | James Lloyd Filtered | metaxylem ERS-   | cahn_group | Overall (Kruskal-Wallis) | 1.2205e-23        |
| CV Expr by Celltype | James Lloyd Filtered | metaxylem ERS-   | cahn_group | gbM vs Unmethylated      | 7.0243e-13        |
| CV Expr by Celltype | James Lloyd Filtered | metaxylem ERS-   | cahn_group | TE-like vs Unmethylated  | 3.7715e-08        |
| CV Expr by Celltype | James Lloyd Filtered | protoxylem ERS+  | cahn_group | Overall (Kruskal-Wallis) | 1.6091e-08        |
| CV Expr by Celltype | James Lloyd Filtered | protoxylem ERS+  | cahn_group | gbM vs Unmethylated      | 3.4990e-01        |
| CV Expr by Celltype | James Lloyd Filtered | protoxylem ERS+  | cahn_group | TE-like vs Unmethylated  | 6.1205e-08        |