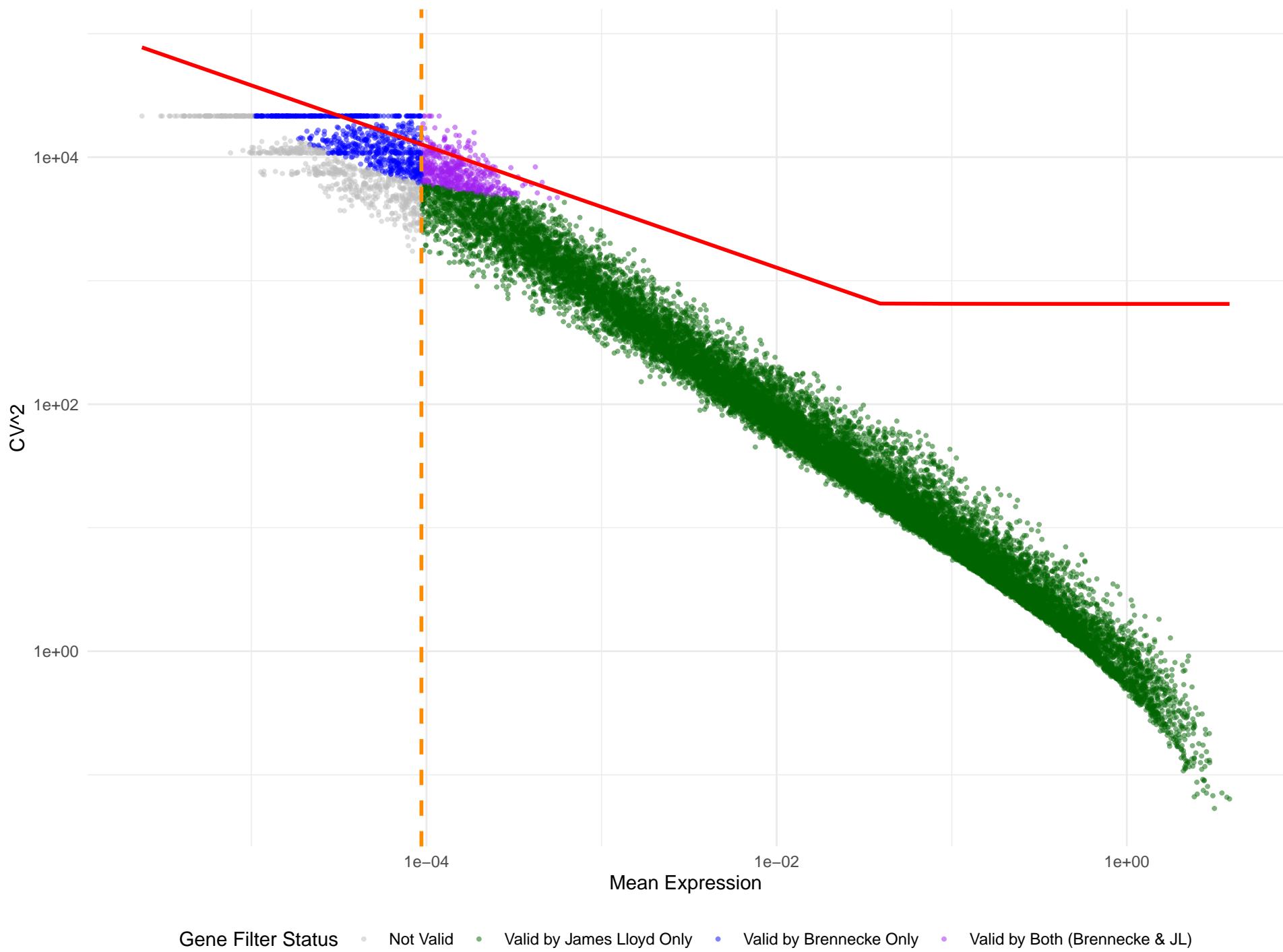


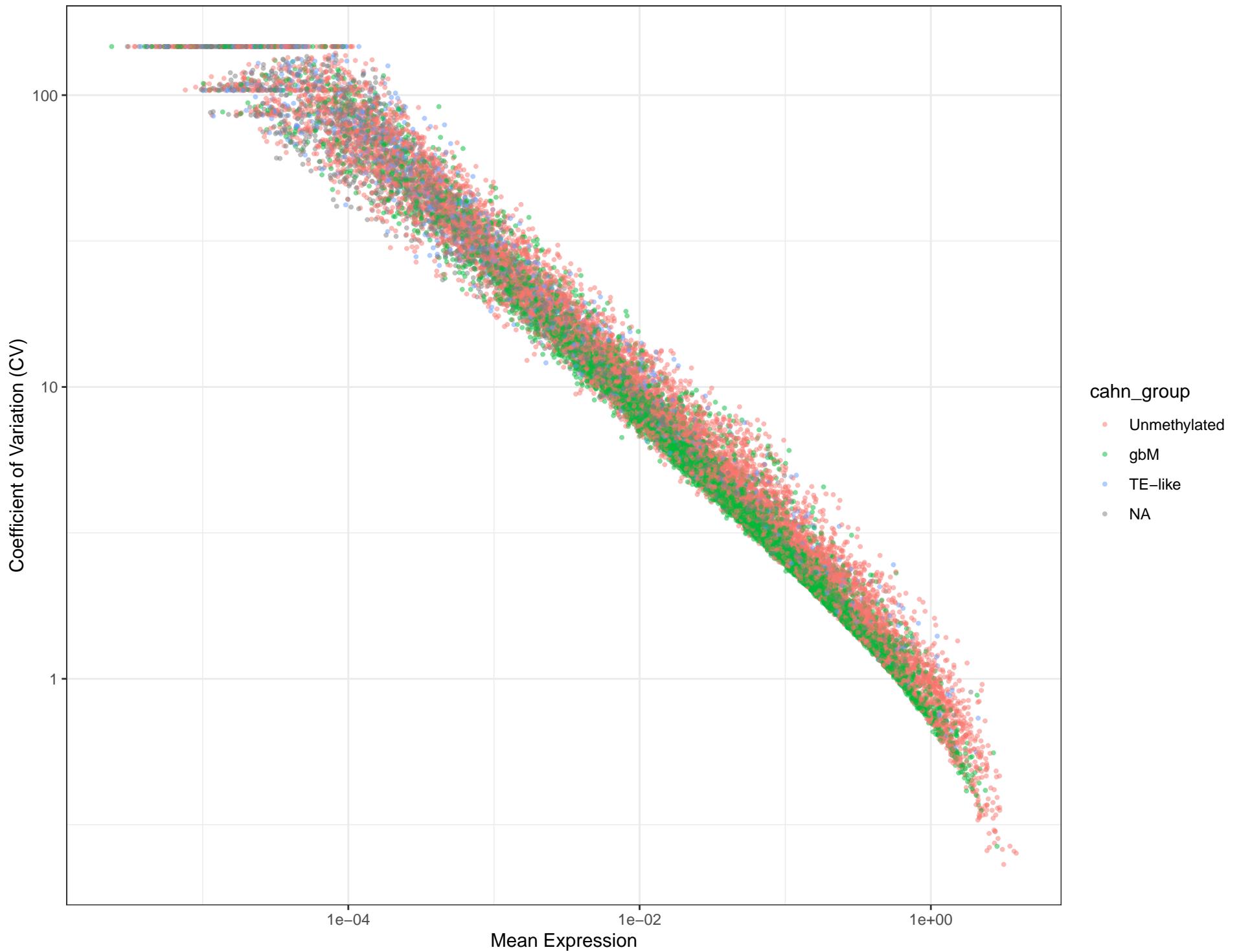
# Mean Expression vs CV^2 with Filtering Methods

Brennecke Fit (Red Line), James Lloyd Filter (Orange Dashed Line at 9.36e-05 Mean Expression)

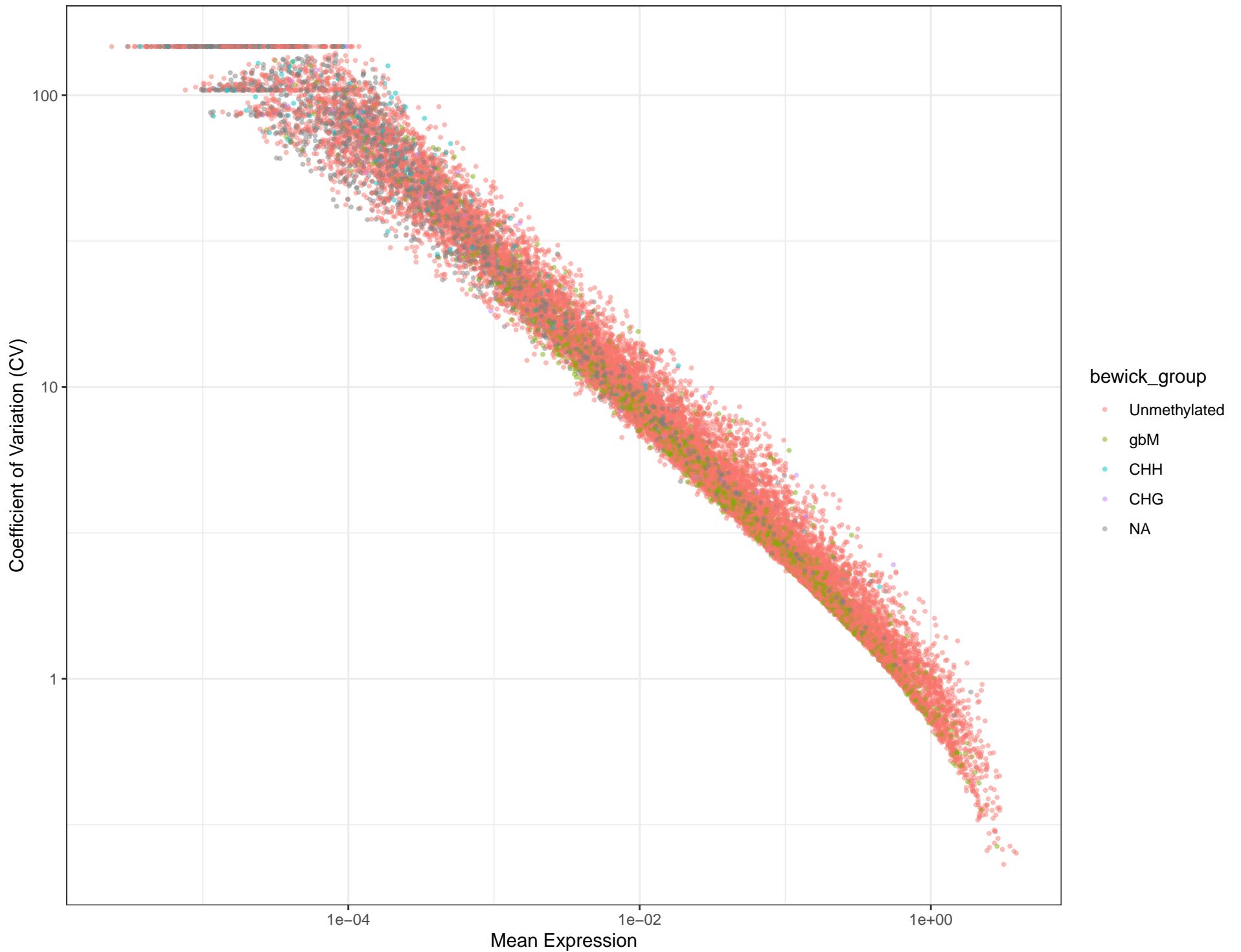


Gene Filter Status • Not Valid • Valid by James Lloyd Only • Valid by Brennecke Only • Valid by Both (Brennecke & JL)

# Mean vs CV by Cahn Group (Baseline – Basic Cleaning Only)



# Mean vs CV by Bewick Group (Baseline – Basic Cleaning Only)



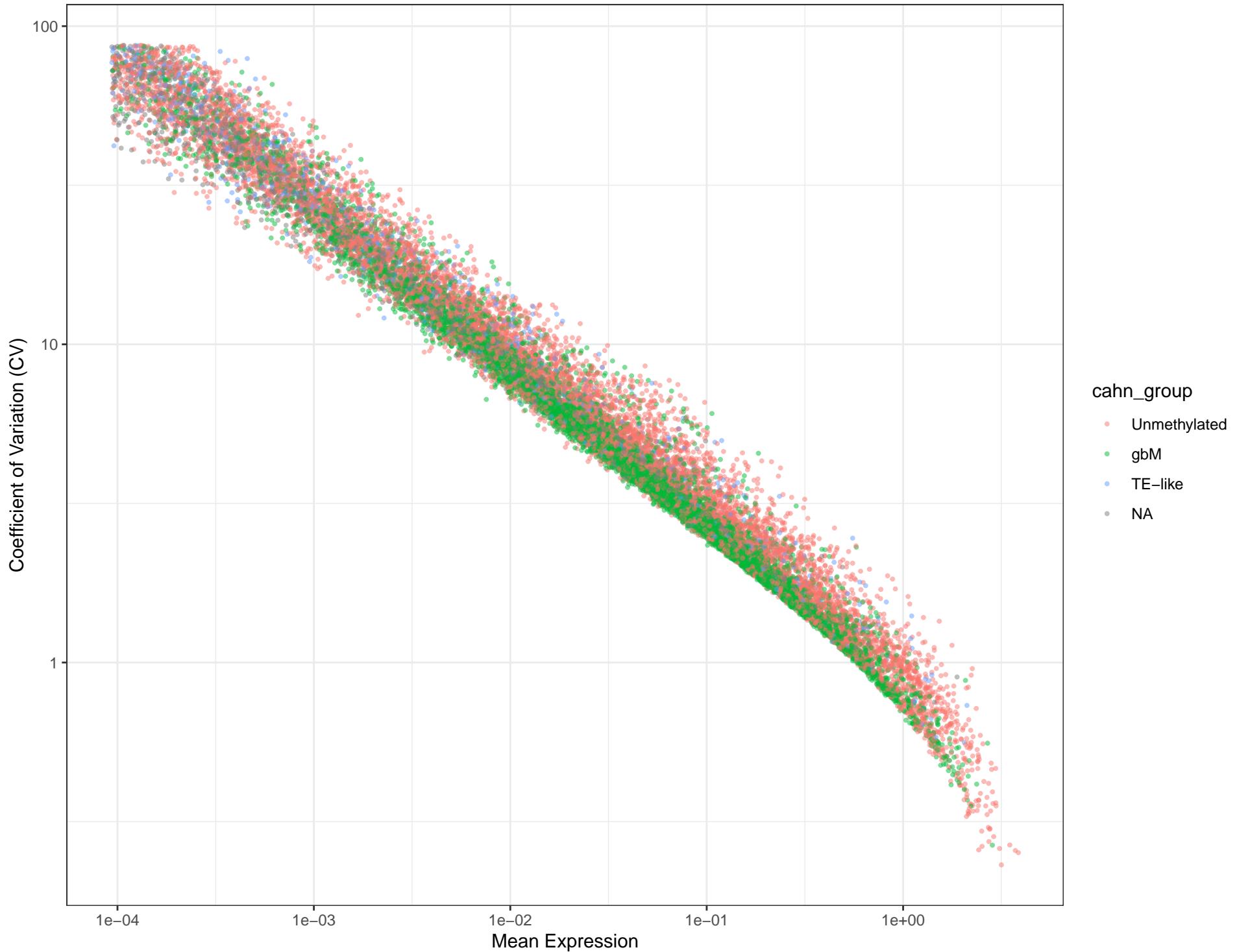
# Mean vs CV by Cahn Group (Brennecke Filter Only)



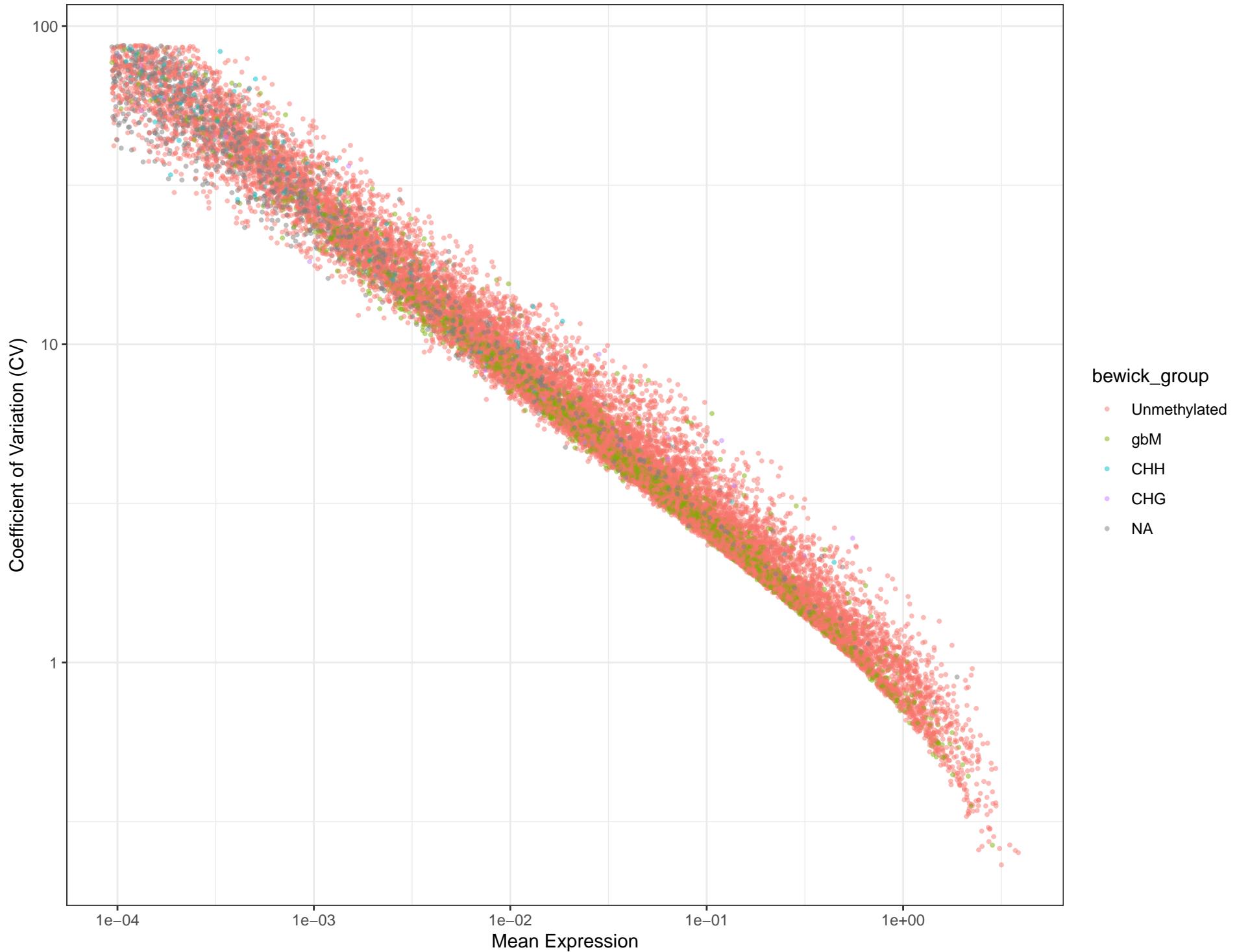
# Mean vs CV by Bewick Group (Brennecke Filter Only)



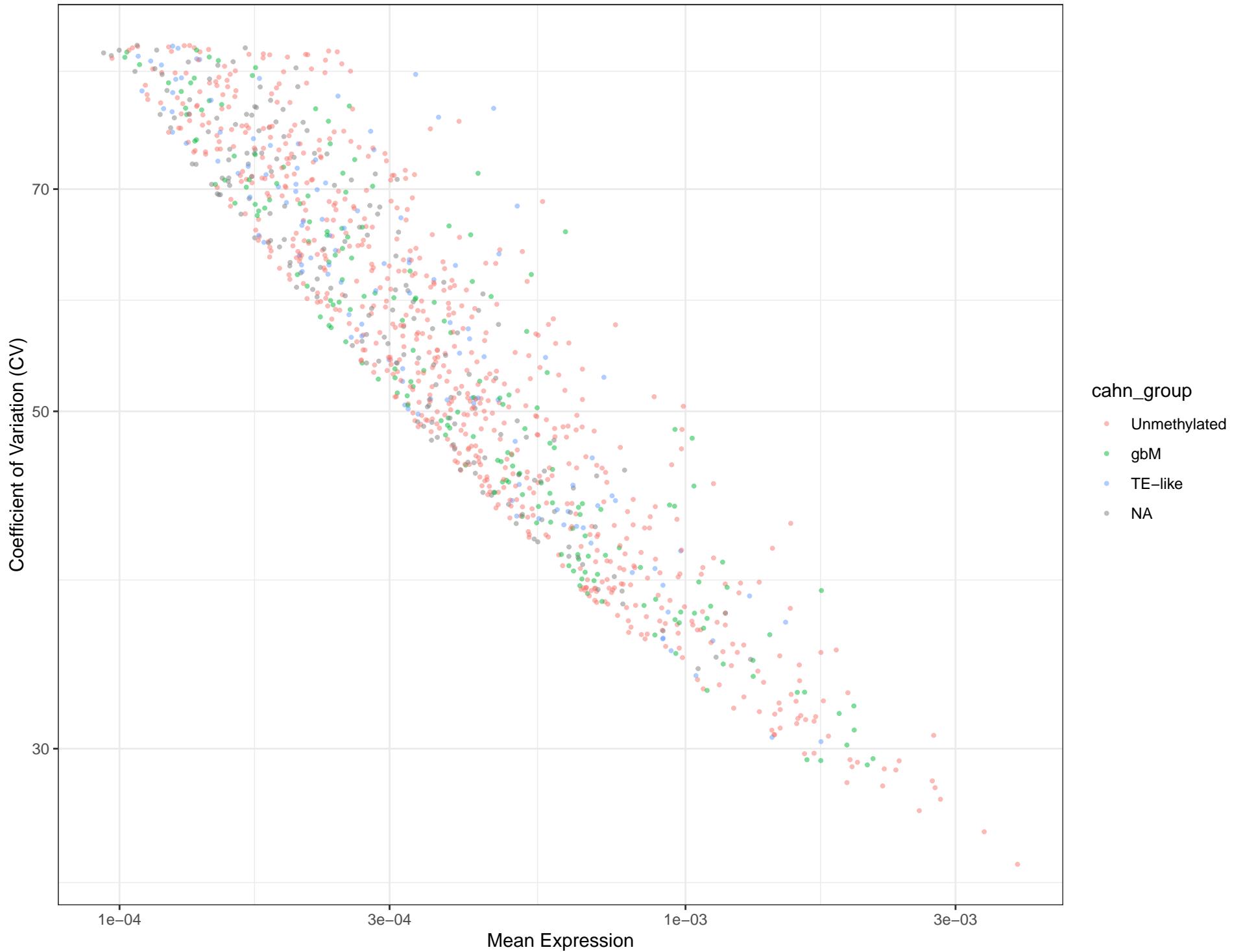
Mean vs CV by Cahn Group (James Lloyd Filter Only)



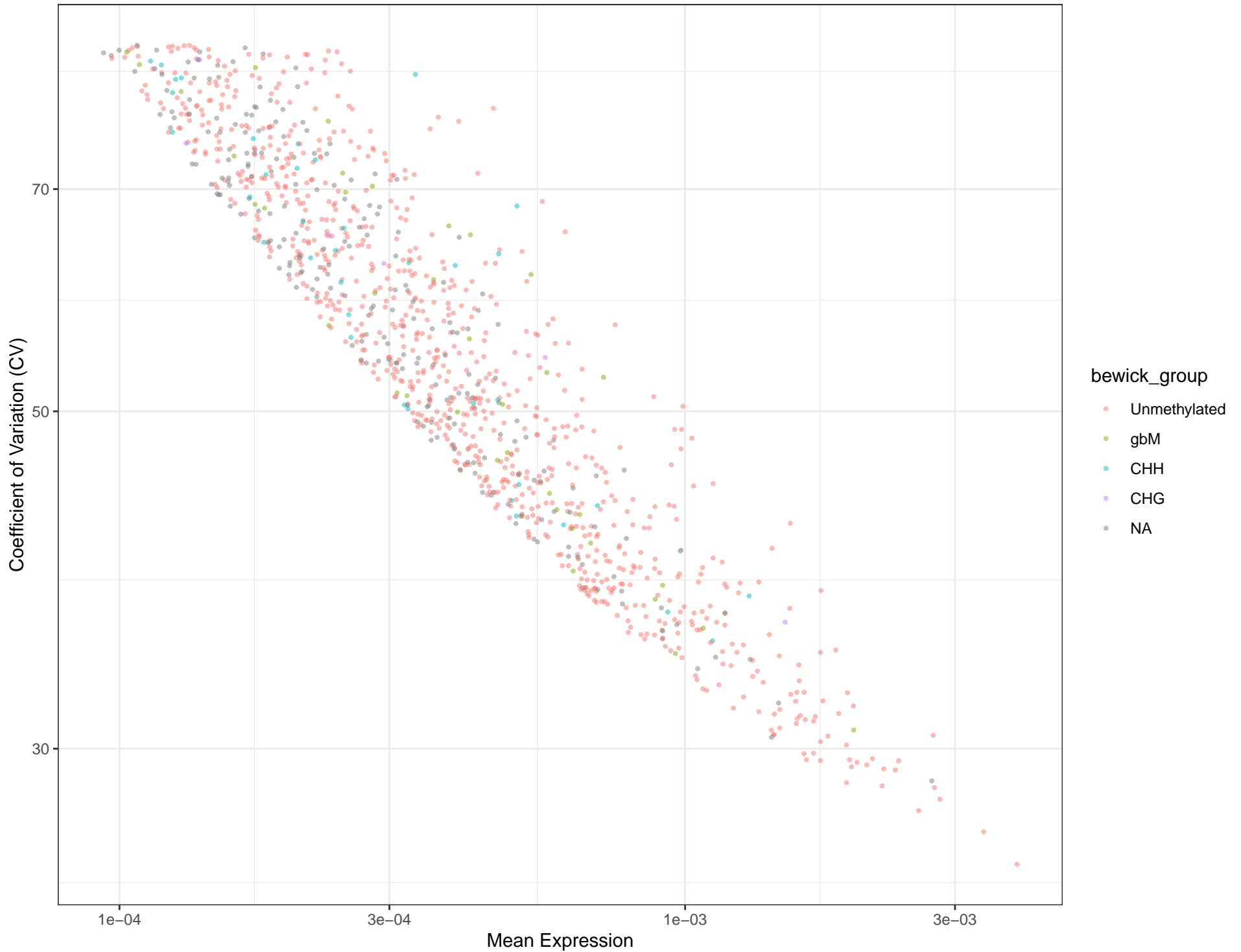
Mean vs CV by Bewick Group (James Lloyd Filter Only)



Mean vs CV by Cahn Group (James Lloyd Filter THEN Brennecke)



Mean vs CV by Bewick Group (James Lloyd Filter THEN Brennecke)



## Summary of Genes by Filter Category

filter_category	Count	Median_CV	Median_CV2	Median_Mean_Expr
Not Valid	632	8.58e+01	7.36e+03	3.29e-05
Valid by James Lloyd Only	22705	4.52e+00	2.05e+01	3.94e-02
Valid by Brennecke Only	732	1.17e+02	1.36e+04	4.76e-05
Valid by Both (Brennecke & JL)	497	8.62e+01	7.43e+03	1.43e-04

## Overall Methylation Group Comparison Statistics

Comparison	P_value	Statistic
Cahn gbM vs non-gbM	0.0000e+00	97248020
Bewick gbM vs non-gbM	1.0831e-214	61484345
Bewick TE-like vs other	2.0336e-73	1298084
H2A.Z-Depleted vs H2A.Z-Enriched	0.0000e+00	2491045

2	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	border cells	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	7.6145e-59	NA
3	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	border cells	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	3.7253e-34	NA
4	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	border cells	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.5680e-87	NA
5	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	border cells	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.4207e-108	494.386
6	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	border cells	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	4.4529e-66	NA
7	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	border cells	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.7592e-38	NA
8	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	border cells	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	3.6172e-69	NA
9	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	border cells	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.5290e-01	3.756
10	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	border cells	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.9775e-01	1.029
11	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	root cap early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.2761e-294	1353.432
12	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	root cap early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.2556e-181	NA
13	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	root cap early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.5343e-55	NA
14	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	root cap early	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	9.0471e-188	NA
15	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	root cap early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.5746e-202	928.353
16	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	root cap early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.2569e-132	NA
17	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	root cap early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.4315e-61	NA
18	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	root cap early	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	8.6417e-117	NA
19	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	root cap early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.5905e-01	1.163
20	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	root cap early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.6489e-01	0.290
21	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	root cap tip	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.8717e-212	973.129
22	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	root cap tip	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.3057e-127	NA
23	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	root cap tip	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.0595e-43	NA
24	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	root cap tip	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.0038e-137	NA
25	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	root cap tip	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.8258e-172	790.012
26	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	root cap tip	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	9.5726e-114	NA
27	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	root cap tip	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	3.2285e-52	NA
28	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	root cap tip	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.3015e-96	NA
29	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	root cap tip	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.6635e-01	1.137
30	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	root cap tip	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.8436e-01	3.382
31	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	root cap lateral	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.8907e-197	904.044
32	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	root cap lateral	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	9.3884e-118	NA
33	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	root cap lateral	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	9.7703e-40	NA
34	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	root cap lateral	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	5.8143e-131	NA
35	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	root cap lateral	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.4155e-162	741.777

42	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	columella	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.6316e-193	NA
43	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	columella	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	3.1011e-49	NA
44	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	columella	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.8164e-181	NA
45	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	columella	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.6343e-215	988.174
46	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	columella	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.1154e-151	NA
47	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	columella	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	4.9940e-55	NA
48	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	columella	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.0176e-111	NA
49	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	columella	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	9.3637e-01	0.131
50	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	columella	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.4560e-01	3.854
51	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	non-hair cells	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.2076e-248	1141.705
52	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	non-hair cells	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.0467e-150	NA
53	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	non-hair cells	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	3.0006e-49	NA
54	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	non-hair cells	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.2665e-161	NA
55	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	non-hair cells	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.7911e-172	790.036
56	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	non-hair cells	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.6761e-105	NA
57	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	non-hair cells	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.1117e-59	NA
58	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	non-hair cells	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	9.2248e-110	NA
59	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	non-hair cells	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.1843e-01	0.961
60	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	non-hair cells	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	7.1873e-01	0.661
61	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	epidermis early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	0.0000e+00	1836.455
62	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	epidermis early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	6.7586e-267	NA
63	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	epidermis early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.4397e-63	NA
64	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	epidermis early	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.3349e-225	NA
65	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	epidermis early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.2826e-232	1065.071
66	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	epidermis early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	4.5864e-153	NA
67	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	epidermis early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.5221e-69	NA
68	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	epidermis early	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.0499e-129	NA
69	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	epidermis early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.2500e-01	2.983
70	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	epidermis early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.4057e-04	14.706
71	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	epidermis early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	4.2475e-04	NA
72	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	epidermis early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	4.4216e-01	NA
73	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	epidermis early	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.3321e-02	NA
74	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	hair cells early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.0280e-315	1449.214
75	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	hair cells early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.4437e-207	NA

82	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	hair cells early	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	7.2562e–01	0.641
83	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	hair cells early	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	9.7505e–01	0.051
84	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	cortex ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	4.7985e–229	1051.447
85	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	cortex ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	1.5679e–139	NA
86	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	cortex ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.3081e–44	NA
87	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	cortex ERS+	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	5.5271e–148	NA
88	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	cortex ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	6.9788e–176	806.624
89	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	cortex ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	6.3821e–113	NA
90	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	cortex ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	2.4588e–55	NA
91	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	cortex ERS+	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	1.8020e–105	NA
92	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	cortex ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	2.9142e–01	2.466
93	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	cortex ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	7.6421e–01	0.538
94	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	hair cells ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	8.2383e–216	990.499
95	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	hair cells ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	1.3751e–137	NA
96	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	hair cells ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	3.3846e–38	NA
97	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	hair cells ERS+	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	2.6397e–132	NA
98	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	hair cells ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	8.0434e–156	714.237
99	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	hair cells ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	5.2747e–100	NA
100	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	hair cells ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	3.7302e–49	NA
101	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	hair cells ERS+	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	1.8131e–94	NA
102	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	hair cells ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	7.3021e–01	0.629
103	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	hair cells ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	5.8921e–01	1.058
104	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	hair cells ERS–	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.6369e–185	850.971
105	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	hair cells ERS–	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	1.2178e–123	NA
106	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	hair cells ERS–	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.6672e–29	NA
107	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	hair cells ERS–	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	3.9176e–107	NA
108	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	hair cells ERS–	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	6.5222e–131	599.527
109	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	hair cells ERS–	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	5.2798e–85	NA
110	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	hair cells ERS–	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	5.5199e–41	NA
111	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	hair cells ERS–	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	1.1718e–77	NA
112	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	hair cells ERS–	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	4.4693e–01	1.611
113	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	hair cells ERS–	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	8.4444e–01	0.338
114	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	xpp ERS–	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	2.9964e–267	1227.386
115	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	xpp ERS–	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	1.1850e–170	NA

122	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	xpp ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.9585e-01	2.436
123	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	xpp ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.4233e-02	7.440
124	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	xpp ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	5.0814e-01	NA
125	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	xpp ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.4772e-02	NA
126	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	xpp ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	6.8913e-01	NA
127	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	cortex ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.3909e-162	742.328
128	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	cortex ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.4578e-92	NA
129	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	cortex ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.0125e-36	NA
130	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	cortex ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	3.6320e-112	NA
131	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	cortex ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.4951e-121	556.421
132	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	cortex ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.0121e-73	NA
133	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	cortex ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	8.1978e-43	NA
134	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	cortex ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.3805e-81	NA
135	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	cortex ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.8260e-01	1.081
136	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	cortex ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.1759e-01	0.964
137	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	endodermis ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.7093e-157	719.913
138	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.7286e-86	NA
139	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	7.3148e-37	NA
140	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	4.4780e-113	NA
141	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	endodermis ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	7.7007e-113	516.302
142	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.2369e-66	NA
143	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.2627e-41	NA
144	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	8.1722e-78	NA
145	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	endodermis ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.7454e-01	0.268
146	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	endodermis ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.9636e-01	3.256
147	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	endodermis ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.3684e-257	1181.100
148	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	endodermis ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.6715e-151	NA
149	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	endodermis ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	8.9178e-55	NA
150	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	endodermis ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.2716e-170	NA
151	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	endodermis ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.3382e-192	881.782
152	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	endodermis ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	5.2102e-124	NA
153	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	endodermis ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	9.8345e-61	NA
154	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	endodermis ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.4099e-110	NA
155	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	endodermis ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.1874e-02	6.892

162	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	xpp ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.0099e-57	NA
163	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	xpp ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.5428e-192	NA
164	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	xpp ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.8512e-211	968.158
165	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	xpp ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.0072e-136	NA
166	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	xpp ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	8.0873e-66	NA
167	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	xpp ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.6414e-120	NA
168	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	xpp ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.0537e-01	3.166
169	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	xpp ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.2142e-01	3.015
170	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	ppp ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.5884e-278	1279.312
171	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	ppp ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	6.4800e-169	NA
172	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	ppp ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.8246e-56	NA
173	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	ppp ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	3.6045e-178	NA
174	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	ppp ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.2363e-208	954.564
175	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	ppp ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	4.3539e-140	NA
176	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	ppp ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.9521e-60	NA
177	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	ppp ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.1248e-111	NA
178	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	ppp ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.0300e-01	1.012
179	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	ppp ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.1409e-01	0.975
180	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	ppp ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.0516e-223	1024.722
181	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	ppp ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.0459e-138	NA
182	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	ppp ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	4.8655e-42	NA
183	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	ppp ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	3.1595e-140	NA
184	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	ppp ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.1506e-165	757.558
185	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	ppp ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.2885e-108	NA
186	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	ppp ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	3.1250e-50	NA
187	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	ppp ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.3483e-94	NA
188	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	ppp ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.1735e-01	0.403
189	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	ppp ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.1353e-01	1.333
190	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	procambium ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.0534e-260	1197.240
191	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	procambium ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	8.2811e-152	NA
192	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	procambium ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.5912e-56	NA
193	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	procambium ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	7.4236e-175	NA
194	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	procambium ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.7953e-205	942.890
195	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	procambium ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs obM	2.5248e-135	NA

202	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.7831e-44	NA
203	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	3.8680e-139	NA
204	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	procambium ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.7985e-156	715.270
205	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.5164e-99	NA
206	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	6.3824e-50	NA
207	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.0959e-94	NA
208	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	procambium ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	9.4460e-01	0.114
209	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	procambium ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.5216e-01	1.587
210	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protophloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.3123e-132	605.487
211	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protophloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.3136e-66	NA
212	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protophloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	8.5785e-38	NA
213	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protophloem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.9321e-100	NA
214	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protophloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.2522e-102	465.506
215	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protophloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	7.8571e-60	NA
216	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protophloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	3.8391e-38	NA
217	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protophloem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	3.2436e-69	NA
218	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	protophloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.2010e-02	5.561
219	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	protophloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.7875e-01	2.555
220	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	metaphloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.1877e-201	924.073
221	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	metaphloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.0860e-120	NA
222	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	metaphloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.6319e-41	NA
223	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	metaphloem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.9104e-131	NA
224	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaphloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.4887e-143	654.799
225	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaphloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.9127e-90	NA
226	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaphloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	9.7042e-47	NA
227	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaphloem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	3.6700e-87	NA
228	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	metaphloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.2784e-01	4.114
229	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	metaphloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.6058e-01	1.158
230	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protophloem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.9413e-260	1196.018
231	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protophloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.5458e-160	NA
232	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protophloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.9135e-50	NA
233	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protophloem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	6.0839e-164	NA
234	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protophloem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.2864e-199	915.925
235	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protophloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	4.1450e-142	NA

242	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	7.4028e-49	NA
243	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	5.4345e-174	NA
244	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaphloem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.7729e-208	956.730
245	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.4818e-149	NA
246	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.8078e-51	NA
247	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	9.4190e-104	NA
248	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	metaphloem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	9.8164e-01	0.037
249	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	metaphloem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	7.6483e-01	0.536
250	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	metaxylem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.1542e-279	1281.208
251	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	metaxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.7174e-165	NA
252	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	metaxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.0200e-58	NA
253	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	metaxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.0332e-182	NA
254	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaxylem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.8719e-198	910.570
255	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	9.7486e-134	NA
256	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	6.8171e-57	NA
257	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	4.2994e-109	NA
258	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	metaxylem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	7.8093e-01	0.495
259	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	metaxylem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.1092e-01	0.986
260	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protoxylem early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.4491e-255	1170.050
261	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protoxylem early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.1906e-167	NA
262	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protoxylem early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.0584e-42	NA
263	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protoxylem early	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.9822e-147	NA
264	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protoxylem early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.2044e-190	873.401
265	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protoxylem early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.9418e-140	NA
266	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protoxylem early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	9.5790e-44	NA
267	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protoxylem early	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	4.7877e-89	NA
268	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	protoxylem early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.7577e-01	2.576
269	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	protoxylem early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.0779e-01	1.355
270	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protoxylem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.8848e-107	488.385
271	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protoxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.8051e-53	NA
272	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protoxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.2695e-32	NA
273	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protoxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.1709e-80	NA
274	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protoxylem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.3136e-79	360.885
275	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protoxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs obM	5.5813e-45	NA

282	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	metaxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	9.5768e-43	NA
283	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	metaxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.1243e-142	NA
284	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaxylem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.0949e-160	734.008
285	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.7260e-109	NA
286	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.0344e-44	NA
287	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	metaxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	4.8281e-87	NA
288	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	metaxylem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.0305e-01	0.439
289	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	metaxylem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.4452e-01	0.338
290	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protoxylem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.3634e-174	800.680
291	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protoxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.3769e-111	NA
292	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protoxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.3033e-31	NA
293	Mean Expr by Celltype	Unfiltered	cahn_group	cell_mean	protoxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	8.7357e-105	NA
294	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protoxylem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.4195e-141	648.628
295	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protoxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.4117e-102	NA
296	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protoxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	8.4211e-35	NA
297	Mean Expr by Celltype	Unfiltered	bewick_group	cell_mean	protoxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.5744e-68	NA
298	Mean Expr by Celltype	Filtered	cahn_group	cell_mean	protoxylem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.4035e-01	3.927
299	Mean Expr by Celltype	Filtered	bewick_group	cell_mean	protoxylem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.2413e-01	0.943
300	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	rootcap	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.0909e-244	1121.405
301	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	rootcap	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	9.9743e-144	NA
302	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	rootcap	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.0167e-51	NA
303	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	rootcap	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	7.8164e-163	NA
304	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	rootcap	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.4288e-184	846.638
305	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	rootcap	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.8427e-116	NA
306	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	rootcap	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	7.9469e-61	NA
307	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	rootcap	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.8958e-110	NA
308	Mean Expr by Lineage	Filtered	cahn_group	lineage_mean	rootcap	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.9739e-01	3.245
309	Mean Expr by Lineage	Filtered	bewick_group	lineage_mean	rootcap	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	7.2727e-01	0.637
310	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	epidermis	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.0936e-282	1295.044
311	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	epidermis	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.3050e-174	NA
312	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	epidermis	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.2848e-54	NA
313	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	epidermis	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.7851e-177	NA
314	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	epidermis	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.2530e-180	826.571
315	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	epidermis	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.3990e-108	NA

322	Mean Expr by Lineage	Filtered	bewick_group	lineage_mean	epidermis	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.2482e-01	NA
323	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	cortex	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.8562e-206	945.505
324	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	cortex	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	9.8463e-120	NA
325	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	cortex	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	5.1409e-45	NA
326	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	cortex	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.2221e-139	NA
327	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	cortex	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.8506e-159	729.526
328	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	cortex	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	5.3929e-98	NA
329	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	cortex	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.9664e-54	NA
330	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	cortex	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.1375e-100	NA
331	Mean Expr by Lineage	Filtered	cahn_group	lineage_mean	cortex	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.0850e-01	0.994
332	Mean Expr by Lineage	Filtered	bewick_group	lineage_mean	cortex	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.2089e-01	1.304
333	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	xpp	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	7.8206e-292	1340.596
334	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	xpp	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.5678e-179	NA
335	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	xpp	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	6.1649e-56	NA
336	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	xpp	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.6802e-185	NA
337	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	xpp	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.5429e-201	924.772
338	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	xpp	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	8.1822e-129	NA
339	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	xpp	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.2155e-64	NA
340	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	xpp	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.0444e-117	NA
341	Mean Expr by Lineage	Filtered	cahn_group	lineage_mean	xpp	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.5886e-01	0.834
342	Mean Expr by Lineage	Filtered	bewick_group	lineage_mean	xpp	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.4023e-01	3.929
343	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	endodermis	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	9.1034e-230	1054.772
344	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	endodermis	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	7.4216e-131	NA
345	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	endodermis	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	5.8821e-52	NA
346	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	endodermis	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	4.9404e-158	NA
347	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	endodermis	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.3262e-171	785.080
348	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	endodermis	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.4134e-106	NA
349	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	endodermis	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.5559e-57	NA
350	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	endodermis	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	8.0610e-105	NA
351	Mean Expr by Lineage	Filtered	cahn_group	lineage_mean	endodermis	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.1374e-02	6.370
352	Mean Expr by Lineage	Filtered	cahn_group	lineage_mean	endodermis	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.7109e-02	NA
353	Mean Expr by Lineage	Filtered	cahn_group	lineage_mean	endodermis	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	4.4888e-01	NA
354	Mean Expr by Lineage	Filtered	cahn_group	lineage_mean	endodermis	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.8441e-01	NA
355	Mean Expr by Lineage	Filtered	bewick_group	lineage_mean	endodermis	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	9.0659e-01	0.196

362	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	ppp	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.6323e-61	NA
363	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	ppp	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	4.0127e-109	NA
364	Mean Expr by Lineage	Filtered	cahn_group	lineage_mean	ppp	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.6240e-01	1.151
365	Mean Expr by Lineage	Filtered	bewick_group	lineage_mean	ppp	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	9.7569e-01	0.049
366	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	procambium	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.2353e-241	1109.423
367	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	procambium	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	7.2863e-137	NA
368	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	procambium	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.2582e-55	NA
369	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	procambium	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.4858e-166	NA
370	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	procambium	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.6348e-188	862.705
371	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	procambium	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.7048e-119	NA
372	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	procambium	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.8778e-61	NA
373	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	procambium	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	5.8863e-111	NA
374	Mean Expr by Lineage	Filtered	cahn_group	lineage_mean	procambium	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.5783e-01	3.692
375	Mean Expr by Lineage	Filtered	bewick_group	lineage_mean	procambium	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.0555e-01	3.164
376	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	phloem	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.1152e-245	1125.994
377	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	phloem	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	9.0245e-145	NA
378	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	phloem	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.7800e-51	NA
379	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	phloem	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	6.1402e-163	NA
380	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	phloem	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.4875e-179	820.921
381	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	phloem	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.5502e-117	NA
382	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	phloem	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.2277e-54	NA
383	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	phloem	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.0501e-102	NA
384	Mean Expr by Lineage	Filtered	cahn_group	lineage_mean	phloem	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.0177e-01	0.442
385	Mean Expr by Lineage	Filtered	bewick_group	lineage_mean	phloem	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.2889e-01	0.928
386	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	xylem	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	9.0068e-241	1105.450
387	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	xylem	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	5.4724e-138	NA
388	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	xylem	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	4.0253e-56	NA
389	Mean Expr by Lineage	Unfiltered	cahn_group	lineage_mean	xylem	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	6.5241e-162	NA
390	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	xylem	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.0251e-175	805.855
391	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	xylem	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.4023e-112	NA
392	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	xylem	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	3.0713e-57	NA
393	Mean Expr by Lineage	Unfiltered	bewick_group	lineage_mean	xylem	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.7832e-101	NA
394	Mean Expr by Lineage	Filtered	cahn_group	lineage_mean	xylem	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.8610e-01	0.242
395	Mean Expr by Lineage	Filtered	bewick_group	lineage_mean	xylem	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.7669e-01	1.953

402	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	border cells	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	4.1989e-05	NA
403	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	border cells	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	4.1989e-05	NA
404	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	border cells	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	9.2674e-01	0.152
405	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	root cap early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.4353e-129	590.681
406	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	root cap early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	7.4824e-75	NA
407	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	root cap early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	5.4274e-29	NA
408	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	root cap early	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	7.1031e-85	NA
409	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	root cap early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.7506e-84	384.190
410	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	root cap early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.9660e-51	NA
411	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	root cap early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	9.8075e-31	NA
412	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	root cap early	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.9660e-51	NA
413	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	root cap early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.9105e-01	0.231
414	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	root cap early	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.9503e-01	1.038
415	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	root cap tip	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.7656e-41	186.777
416	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	root cap tip	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.2300e-20	NA
417	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	root cap tip	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.4586e-13	NA
418	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	root cap tip	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.2580e-31	NA
419	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	root cap tip	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.1397e-35	160.919
420	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	root cap tip	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.2359e-22	NA
421	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	root cap tip	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	3.0777e-13	NA
422	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	root cap tip	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	7.1214e-22	NA
423	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	root cap tip	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.7243e-01	1.975
424	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	root cap lateral	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.0591e-38	172.760
425	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	root cap lateral	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	7.3402e-14	NA
426	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	root cap lateral	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.3705e-17	NA
427	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	root cap lateral	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.2123e-34	NA
428	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	root cap lateral	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.8646e-34	154.471
429	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	root cap lateral	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.4229e-16	NA
430	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	root cap lateral	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	4.7618e-18	NA
431	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	root cap lateral	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	7.6838e-27	NA
432	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	root cap lateral	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.0499e-01	2.375
433	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	root cap lateral	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.4772e-01	2.113
434	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	columella	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	7.2295e-45	203.276
435	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	columella	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.8362e-21	NA

442	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	columella	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.2334e–01	4.186
443	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	columella	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	3.0068e–01	2.403
444	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	non–hair cells	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.8534e–157	721.778
445	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	non–hair cells	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	3.5666e–99	NA
446	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	non–hair cells	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	7.4281e–30	NA
447	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	non–hair cells	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	1.6275e–94	NA
448	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	non–hair cells	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.3286e–98	450.738
449	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	non–hair cells	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	5.4247e–61	NA
450	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	non–hair cells	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	2.1275e–34	NA
451	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	non–hair cells	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	5.4247e–61	NA
452	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	non–hair cells	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.3112e–01	4.063
453	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	non–hair cells	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	6.1365e–02	5.582
454	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	epidermis early	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	4.4653e–285	1309.481
455	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	epidermis early	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	1.5259e–204	NA
456	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	epidermis early	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	4.9037e–36	NA
457	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	epidermis early	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	2.7752e–139	NA
458	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	epidermis early	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	7.5590e–149	682.125
459	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	epidermis early	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	4.5658e–100	NA
460	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	epidermis early	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	2.2183e–44	NA
461	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	epidermis early	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	6.5343e–77	NA
462	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	epidermis early	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.3466e–01	4.010
463	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	epidermis early	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	9.4231e–03	9.329
464	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	epidermis early	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	4.7936e–02	NA
465	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	epidermis early	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.7467e–01	NA
466	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	epidermis early	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	3.6263e–02	NA
467	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	hair cells early	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.8307e–213	979.692
468	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	hair cells early	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	8.4700e–146	NA
469	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	hair cells early	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.1678e–31	NA
470	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	hair cells early	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	3.9161e–114	NA
471	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	hair cells early	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	3.0378e–122	559.608
472	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	hair cells early	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	3.7654e–78	NA
473	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	hair cells early	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	2.7297e–40	NA
474	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	hair cells early	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	2.6808e–69	NA
475	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	hair cells early	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	6.4081e–01	0.890

482	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	cortex ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbm	1.3324e-30	NA
483	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	cortex ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.0712e-18	NA
484	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	cortex ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.2834e-30	NA
485	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	cortex ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.8714e-02	6.044
486	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	cortex ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	7.1144e-01	NA
487	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	cortex ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	7.5078e-01	NA
488	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	cortex ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	7.4577e-01	NA
489	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	hair cells ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.3335e-100	456.276
490	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	hair cells ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.4062e-66	NA
491	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	hair cells ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	5.5549e-17	NA
492	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	hair cells ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	9.1633e-57	NA
493	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	hair cells ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.2005e-65	297.759
494	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	hair cells ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.3971e-37	NA
495	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	hair cells ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.9122e-27	NA
496	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	hair cells ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	8.6534e-43	NA
497	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	hair cells ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.5004e-01	1.196
498	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	hair cells ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.0575e-01	2.370
499	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	hair cells ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	7.7017e-24	106.441
500	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	hair cells ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.7675e-13	NA
501	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	hair cells ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	9.7696e-08	NA
502	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	hair cells ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	3.8662e-17	NA
503	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	hair cells ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.4322e-12	54.544
504	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	hair cells ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.5383e-05	NA
505	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	hair cells ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.3732e-08	NA
506	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	hair cells ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.7521e-11	NA
507	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	hair cells ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.8478e-01	1.073
508	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	xpp ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.6062e-46	208.783
509	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	xpp ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.1037e-23	NA
510	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	xpp ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	3.0548e-14	NA
511	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	xpp ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.4419e-34	NA
512	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	xpp ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.3674e-24	107.576
513	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	xpp ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.2779e-11	NA
514	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	xpp ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	3.3676e-13	NA
515	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	xpp ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	9.7959e-20	NA

522	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	cortex ERS-	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	8.4947e-10	41.773
523	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	cortex ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.6028e-01	NA
524	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	cortex ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.0900e-09	NA
525	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	cortex ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	6.8079e-11	NA
526	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	cortex ERS-	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	1.0350e-01	4.536
527	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	endodermis ERS-	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	2.8684e-16	71.575
528	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.1848e-02	NA
529	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.9550e-15	NA
530	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.9550e-15	NA
531	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	endodermis ERS-	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	5.6237e-10	42.598
532	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.8595e-01	NA
533	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	6.8413e-10	NA
534	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	3.5338e-11	NA
535	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	endodermis ERS-	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	1.4259e-02	8.501
536	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.6405e-01	NA
537	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	4.8786e-01	NA
538	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	endodermis ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	4.8786e-01	NA
539	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	endodermis ERS-	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	6.8203e-02	5.371
540	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	endodermis ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	9.8818e-116	529.618
541	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	endodermis ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.6407e-73	NA
542	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	endodermis ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.3763e-21	NA
543	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	endodermis ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	7.5026e-69	NA
544	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	endodermis ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	1.7484e-73	335.060
545	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	endodermis ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	8.3512e-52	NA
546	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	endodermis ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.9217e-20	NA
547	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	endodermis ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	7.8674e-37	NA
548	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	endodermis ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	8.4215e-02	4.949
549	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	endodermis ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	2.3969e-01	2.857
550	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	xpp ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	5.1400e-179	821.051
551	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	xpp ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.2316e-118	NA
552	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	xpp ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.1962e-29	NA
553	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	xpp ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.3054e-99	NA
554	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	xpp ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	6.2553e-115	525.928
555	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	xpp ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.9040e-79	NA

562	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	xpp ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	6.3641e–01	0.904
563	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	ppp ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	2.1126e–97	445.206
564	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	ppp ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	3.3790e–63	NA
565	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	ppp ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.4541e–17	NA
566	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	ppp ERS+	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	2.3103e–56	NA
567	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	ppp ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.0733e–70	322.221
568	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	ppp ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	1.0191e–51	NA
569	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	ppp ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	2.5880e–18	NA
570	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	ppp ERS+	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	4.1703e–32	NA
571	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	ppp ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	4.8398e–04	15.267
572	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	ppp ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	2.4854e–01	NA
573	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	ppp ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	3.4946e–02	NA
574	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	ppp ERS+	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	3.4340e–01	NA
575	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	ppp ERS–	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.2894e–21	96.200
576	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	ppp ERS–	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	4.0754e–08	NA
577	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	ppp ERS–	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	2.2539e–10	NA
578	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	ppp ERS–	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	6.9163e–20	NA
579	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	ppp ERS–	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.4011e–10	45.377
580	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	ppp ERS–	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	3.1456e–05	NA
581	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	ppp ERS–	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.0119e–06	NA
582	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	ppp ERS–	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	2.6955e–09	NA
583	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	ppp ERS–	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	6.8709e–01	0.751
584	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	ppp ERS–	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.3530e–01	4.001
585	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	procambium ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	4.2810e–84	383.926
586	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	procambium ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	5.4975e–48	NA
587	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	procambium ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.0080e–20	NA
588	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	procambium ERS+	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	3.5577e–56	NA
589	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	procambium ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	2.8081e–65	297.271
590	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	procambium ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	2.0821e–45	NA
591	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	procambium ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	6.2632e–19	NA
592	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	procambium ERS+	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	1.1821e–33	NA
593	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	procambium ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	4.1979e–03	10.946
594	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	procambium ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	8.8420e–01	NA
595	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	procambium ERS+	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.9378e–01	NA

602	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	4.2525e-06	NA
603	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.8982e-14	NA
604	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	5.0866e-24	NA
605	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	procambium ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.2488e-13	57.511
606	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	7.6531e-04	NA
607	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.6507e-10	NA
608	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	5.2903e-14	NA
609	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	procambium ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	0.0000e+00	Inf
610	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	8.3270e-01	NA
611	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.5755e-03	NA
612	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.0971e-01	NA
613	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	procambium ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	0.0000e+00	Inf
614	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	8.0064e-01	NA
615	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	9.4339e-02	NA
616	CV Expr by Celltype	Filtered	bewick_group	cv_expr_ct	procambium ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	6.2132e-01	NA
617	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protophloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.3953e-16	73.016
618	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protophloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.2496e-08	NA
619	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protophloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	8.3004e-12	NA
620	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protophloem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.2496e-08	NA
621	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	protophloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.6263e-10	44.121
622	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	protophloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	7.6097e-06	NA
623	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	protophloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.1928e-06	NA
624	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	protophloem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	2.1928e-06	NA
625	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	protophloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.4669e-01	2.119
626	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaphloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.3818e-13	58.131
627	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaphloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	5.6930e-02	NA
628	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaphloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.3943e-10	NA
629	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaphloem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	8.8785e-15	NA
630	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaphloem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.1809e-06	26.072
631	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaphloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	7.2287e-01	NA
632	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaphloem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.1590e-06	NA
633	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaphloem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.3638e-07	NA
634	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protophloem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.2594e-16	71.320
635	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protophloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.3363e-06	NA

642	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	protophloem ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	6.9954e-02	5.320
643	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaphloem ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	6.0068e-65	295.750
644	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.0436e-38	NA
645	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	4.6823e-15	NA
646	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.2784e-41	NA
647	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaphloem ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	7.1550e-48	217.113
648	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.5300e-31	NA
649	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	3.3398e-16	NA
650	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.7032e-26	NA
651	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	metaphloem ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	1.5160e-02	8.378
652	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.8385e-01	NA
653	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	5.0246e-01	NA
654	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	metaphloem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	4.3882e-01	NA
655	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaxylem ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	4.1485e-112	512.934
656	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	5.6653e-75	NA
657	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	6.4921e-19	NA
658	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	4.2121e-61	NA
659	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaxylem ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	1.1572e-70	322.070
660	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.7573e-51	NA
661	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.4549e-18	NA
662	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.0483e-32	NA
663	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	metaxylem ERS+	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	4.0627e-01	1.801
664	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protoxylem early	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	1.0672e-37	170.261
665	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protoxylem early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	8.3485e-24	NA
666	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protoxylem early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.2049e-08	NA
667	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protoxylem early	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	7.6754e-23	NA
668	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	protoxylem early	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	6.5814e-24	106.756
669	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	protoxylem early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.4299e-17	NA
670	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	protoxylem early	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.6594e-07	NA
671	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	protoxylem early	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.0919e-11	NA
672	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	protoxylem early	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	1.3101e-01	4.065
673	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protoxylem ERS-	Kruskal–Wallis	Unmethylated vs gbM vs TE-like	8.4943e-09	37.168
674	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protoxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.8241e-07	NA
675	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protoxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.9580e-04	NA

682	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	protoxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.1879e-01	NA
683	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	protoxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	8.6959e-01	NA
684	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	protoxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	3.6235e-01	NA
685	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaxylem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	8.6098e-25	110.823
686	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.7492e-13	NA
687	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	1.7262e-08	NA
688	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	metaxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	4.2639e-18	NA
689	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaxylem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.5508e-10	45.174
690	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.0140e-05	NA
691	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	3.1140e-06	NA
692	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	metaxylem ERS-	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.2863e-08	NA
693	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	metaxylem ERS-	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	3.8290e-01	1.920
694	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protoxylem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.0589e-08	36.727
695	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protoxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.0518e-01	NA
696	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protoxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	7.6151e-08	NA
697	CV Expr by Celltype	Unfiltered	cahn_group	cv_expr_ct	protoxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.6259e-09	NA
698	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	protoxylem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.5266e-05	22.180
699	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	protoxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	3.6606e-03	NA
700	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	protoxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	6.9248e-04	NA
701	CV Expr by Celltype	Unfiltered	bewick_group	cv_expr_ct	protoxylem ERS+	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	8.9023e-05	NA
702	CV Expr by Celltype	Filtered	cahn_group	cv_expr_ct	protoxylem ERS+	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	5.3192e-02	5.868
703	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	rootcap	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	2.6466e-149	684.224
704	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	rootcap	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	2.1085e-89	NA
705	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	rootcap	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	4.1433e-31	NA
706	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	rootcap	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.6075e-96	NA
707	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	rootcap	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	4.2666e-108	494.457
708	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	rootcap	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	1.9901e-70	NA
709	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	rootcap	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	2.5667e-34	NA
710	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	rootcap	Pairwise Wilcoxon (BH-adjusted)	gbM vs TE-like	1.2877e-61	NA
711	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	rootcap	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.1652e-01	0.967
712	CV Expr by Lineage	Filtered	bewick_group	cv_expr_ln	rootcap	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	1.8570e-01	3.367
713	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	epidermis	Kruskal-Wallis	Unmethylated vs gbM vs TE-like	6.9358e-309	1419.124
714	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	epidermis	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs gbM	4.3662e-210	NA
715	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	epidermis	Pairwise Wilcoxon (BH-adjusted)	Unmethylated vs TE-like	4.6065e-47	NA

722	CV Expr by Lineage	Filtered	bewick_group	cv_expr_ln	epidermis	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	2.0070e–01	3.212
723	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	cortex	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.0394e–69	317.679
724	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	cortex	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	2.5089e–40	NA
725	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	cortex	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.1777e–16	NA
726	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	cortex	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	7.3449e–47	NA
727	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	cortex	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	7.9787e–47	212.289
728	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	cortex	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	5.3593e–27	NA
729	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	cortex	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.8545e–19	NA
730	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	cortex	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	7.0532e–32	NA
731	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	cortex	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.3181e–04	17.868
732	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	cortex	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	1.3016e–01	NA
733	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	cortex	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.5282e–01	NA
734	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	cortex	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	6.7153e–02	NA
735	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	xpp	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.3804e–176	809.865
736	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	xpp	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	7.9628e–113	NA
737	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	xpp	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	3.8423e–32	NA
738	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	xpp	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	1.6009e–103	NA
739	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	xpp	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.0915e–113	520.209
740	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	xpp	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	1.9253e–75	NA
741	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	xpp	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	2.5165e–35	NA
742	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	xpp	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	1.9991e–60	NA
743	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	xpp	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	5.4128e–01	1.228
744	CV Expr by Lineage	Filtered	bewick_group	cv_expr_ln	xpp	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.5082e–01	3.783
745	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	endodermis	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	2.2916e–108	495.700
746	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	endodermis	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	1.0618e–64	NA
747	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	endodermis	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.5655e–23	NA
748	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	endodermis	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	1.4701e–69	NA
749	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	endodermis	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.9231e–73	334.870
750	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	endodermis	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	3.2902e–48	NA
751	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	endodermis	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.0011e–23	NA
752	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	endodermis	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	2.8037e–41	NA
753	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	endodermis	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.7254e–02	8.119
754	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	endodermis	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	1.5049e–01	NA
755	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	endodermis	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.5049e–01	NA

762	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	ppp	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	3.1157e–69	315.484
763	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	ppp	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	4.2428e–49	NA
764	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	ppp	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.8909e–19	NA
765	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	ppp	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	1.9875e–33	NA
766	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	ppp	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	2.4577e–01	2.807
767	CV Expr by Lineage	Filtered	bewick_group	cv_expr_ln	ppp	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	6.9293e–01	0.734
768	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	procambium	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	3.5501e–90	411.931
769	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	procambium	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	3.4451e–48	NA
770	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	procambium	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	8.9099e–25	NA
771	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	procambium	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	9.1453e–64	NA
772	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	procambium	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	4.5160e–68	310.136
773	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	procambium	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	6.3505e–44	NA
774	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	procambium	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	5.4196e–23	NA
775	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	procambium	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	8.6249e–39	NA
776	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	procambium	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	2.6752e–03	11.847
777	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	procambium	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	1.9514e–01	NA
778	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	procambium	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	4.4952e–01	NA
779	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	procambium	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	1.1588e–01	NA
780	CV Expr by Lineage	Filtered	bewick_group	cv_expr_ln	procambium	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	6.4842e–01	0.866
781	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	phloem	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	7.8073e–83	378.119
782	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	phloem	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	1.7321e–44	NA
783	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	phloem	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	7.1461e–23	NA
784	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	phloem	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	3.9761e–58	NA
785	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	phloem	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.7118e–61	279.840
786	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	phloem	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	2.4730e–38	NA
787	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	phloem	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	1.7285e–22	NA
788	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	phloem	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	7.2685e–36	NA
789	CV Expr by Lineage	Filtered	cahn_group	cv_expr_ln	phloem	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	5.7648e–01	1.102
790	CV Expr by Lineage	Filtered	bewick_group	cv_expr_ln	phloem	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	9.4377e–02	4.721
791	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	xylem	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	5.8103e–123	562.917
792	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	xylem	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs gbM	2.7546e–77	NA
793	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	xylem	Pairwise Wilcoxon (BH–adjusted)	Unmethylated vs TE–like	3.1932e–25	NA
794	CV Expr by Lineage	Unfiltered	cahn_group	cv_expr_ln	xylem	Pairwise Wilcoxon (BH–adjusted)	gbM vs TE–like	1.4976e–72	NA
795	CV Expr by Lineage	Unfiltered	bewick_group	cv_expr_ln	xylem	Kruskal–Wallis	Unmethylated vs gbM vs TE–like	1.2765e–85	390.951