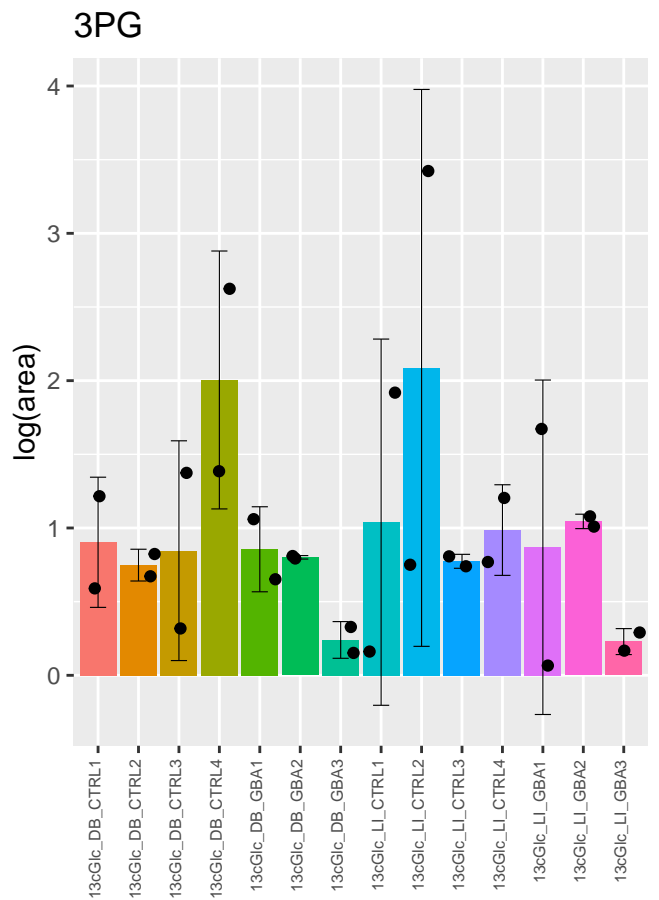
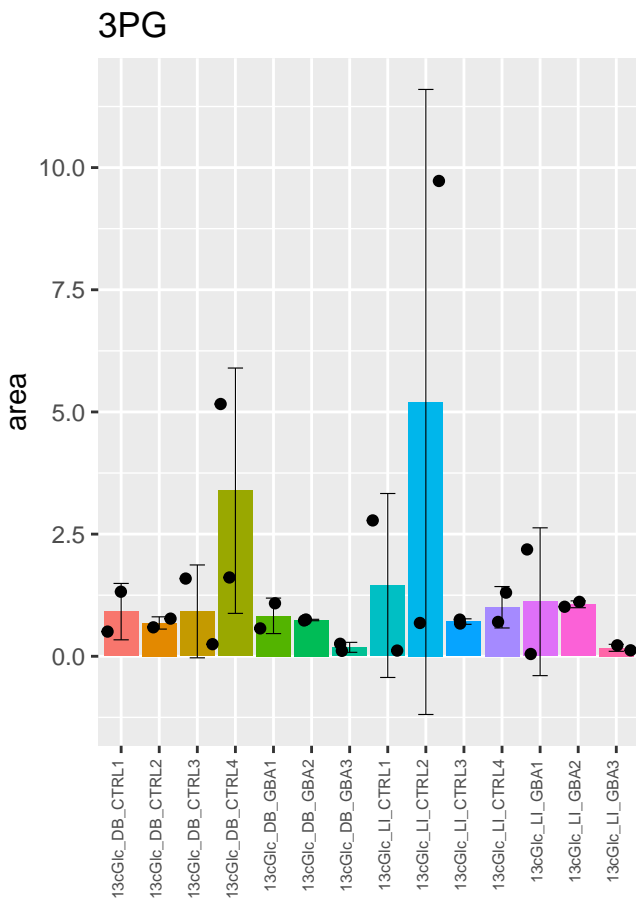
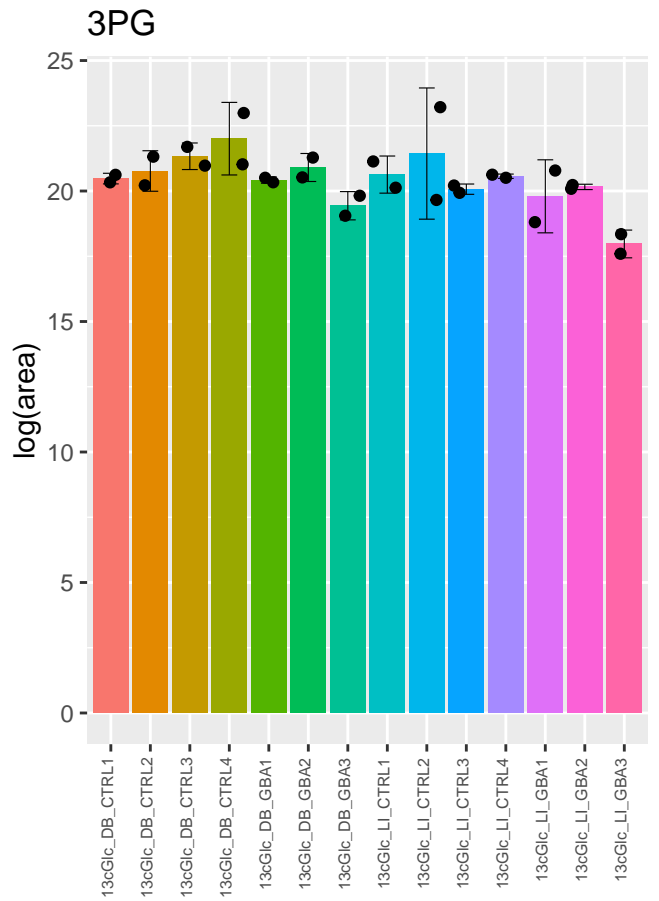
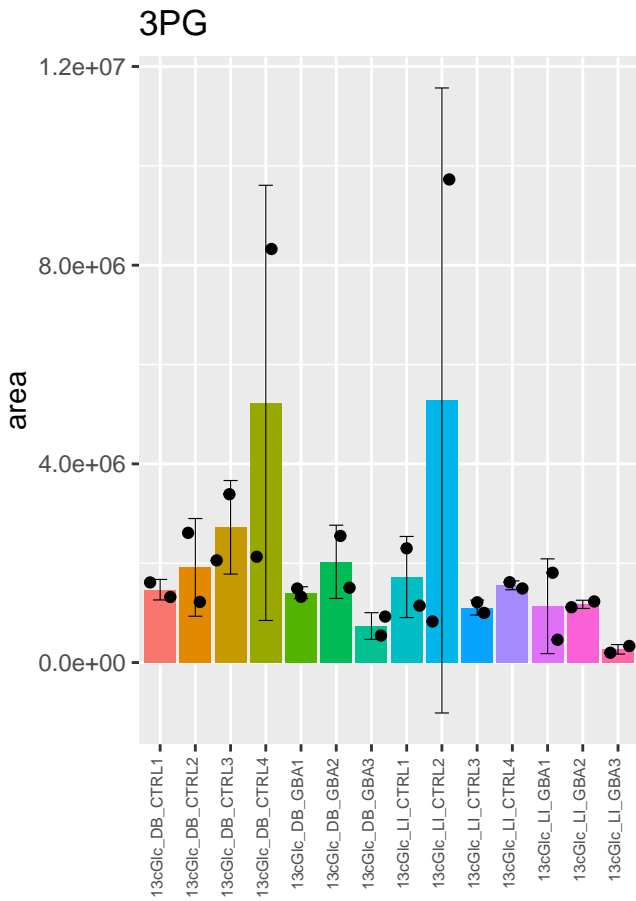
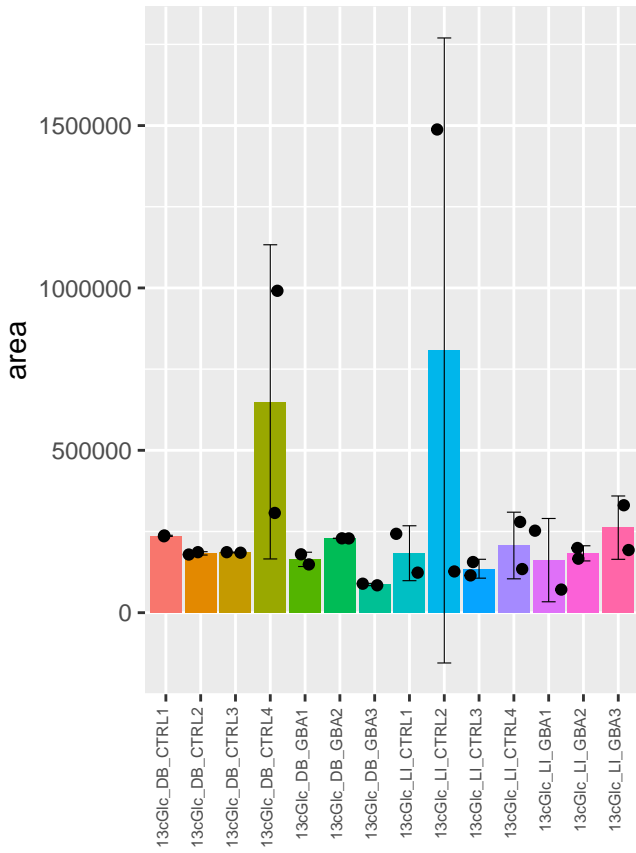


Peakarea normalization

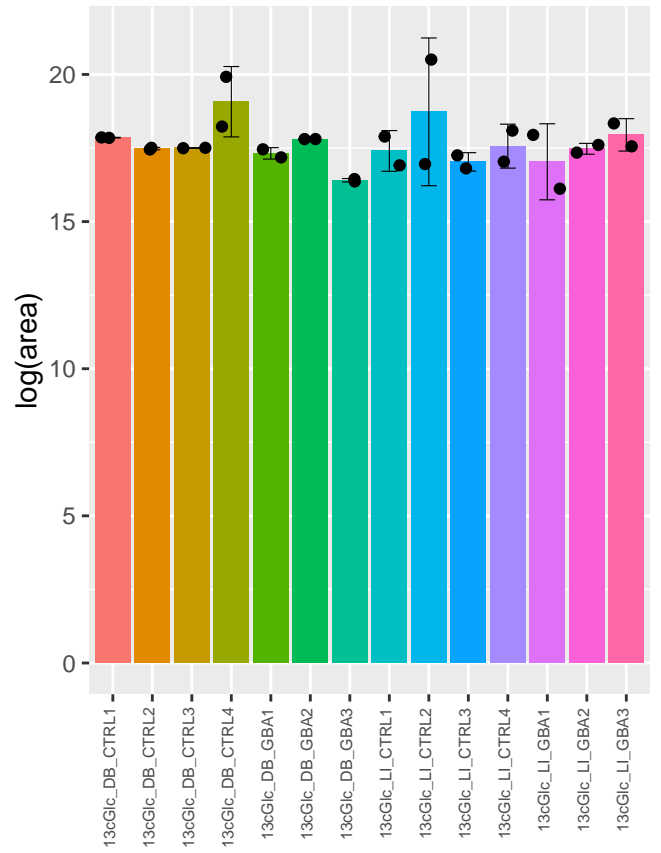
- Processed: 2023-02-02 07:44:49
- Input file: 20230126_LN478_AS_CTRL_GBA_DB_Li_13cGlc_only_conc.rep.norm.xlsx
- Number of replicates: 2
- Number of metabolites: 66
- Reference sample: CTRL
- PCV: Available



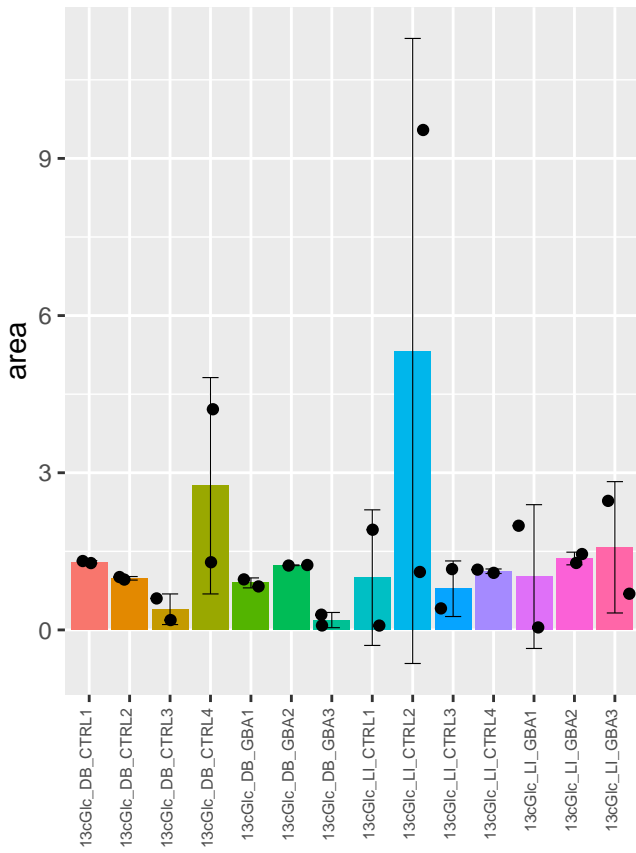
Adenine



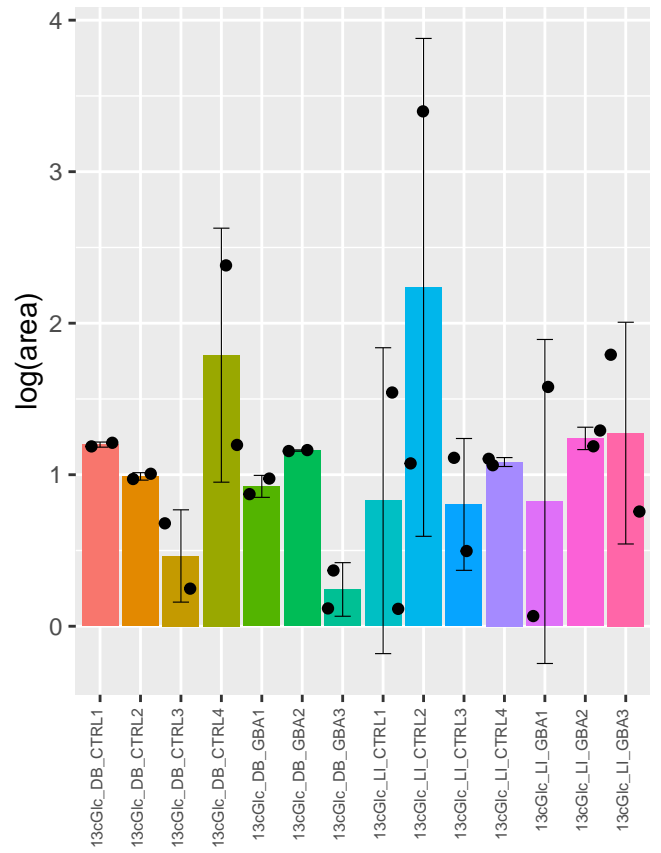
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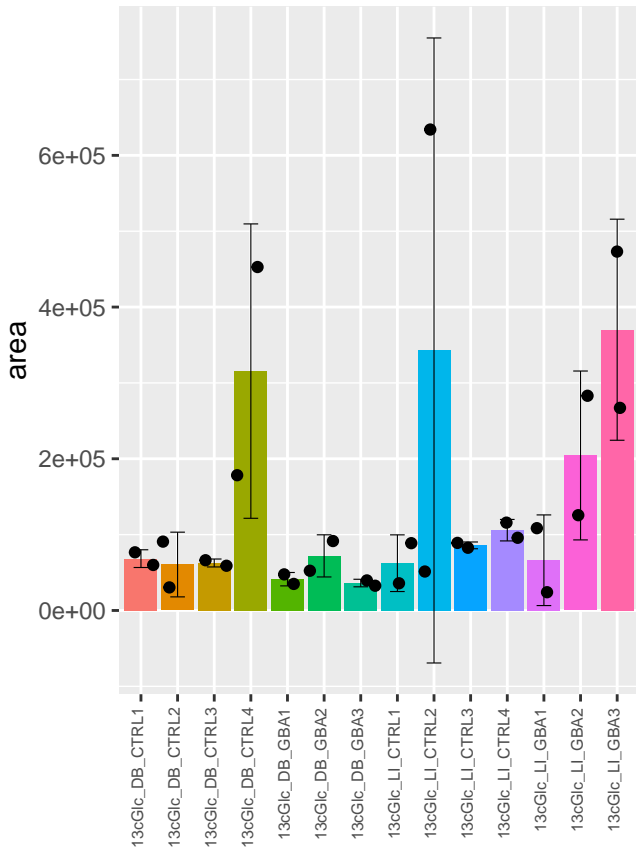
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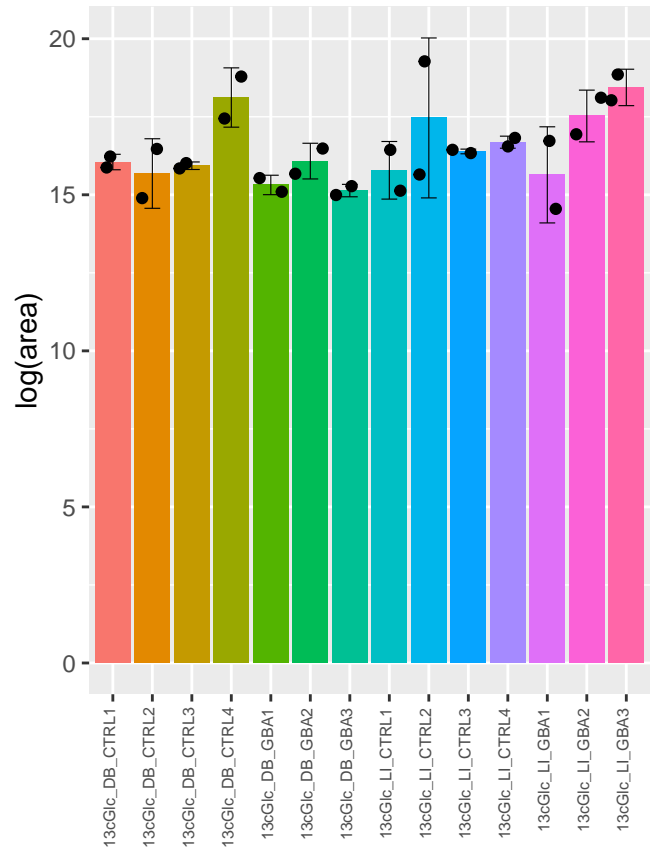
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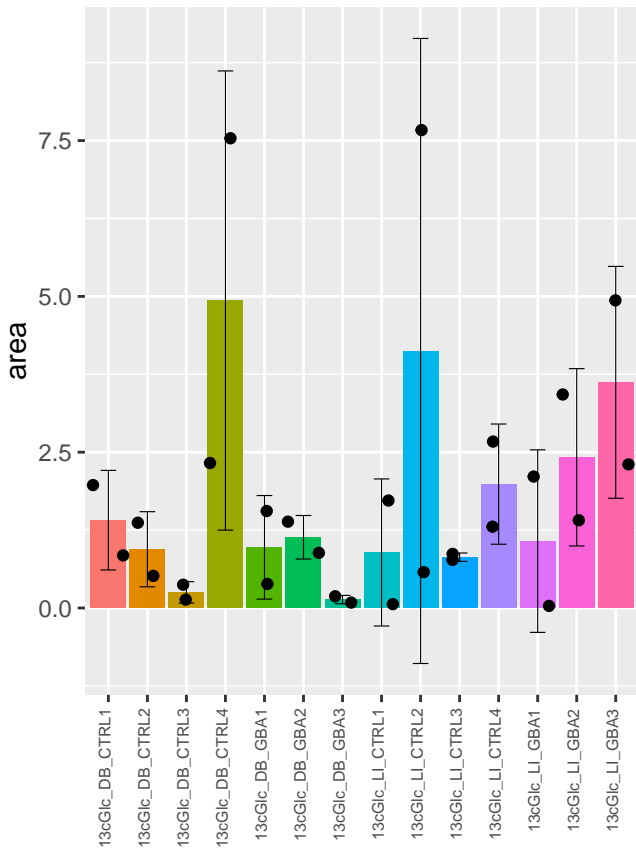
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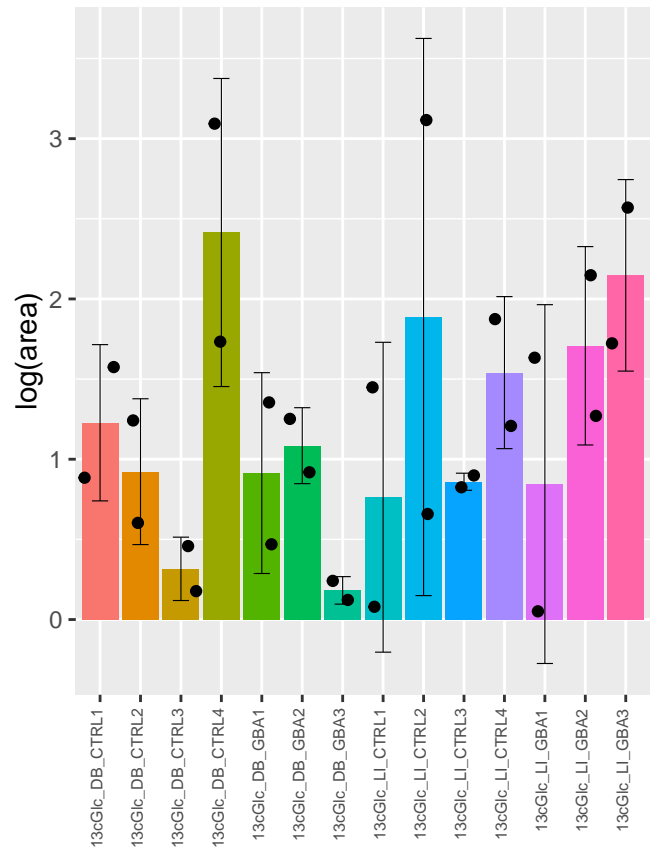
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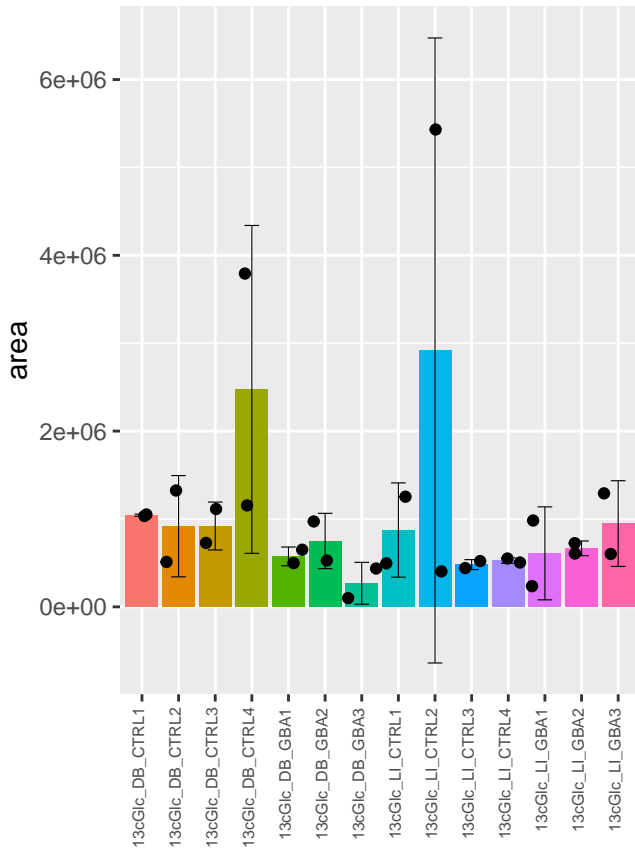
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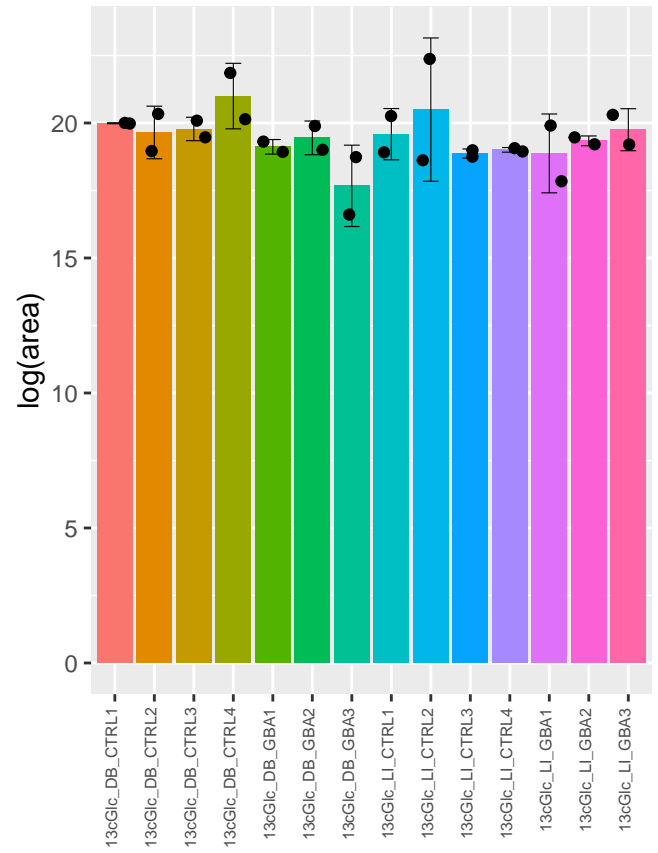
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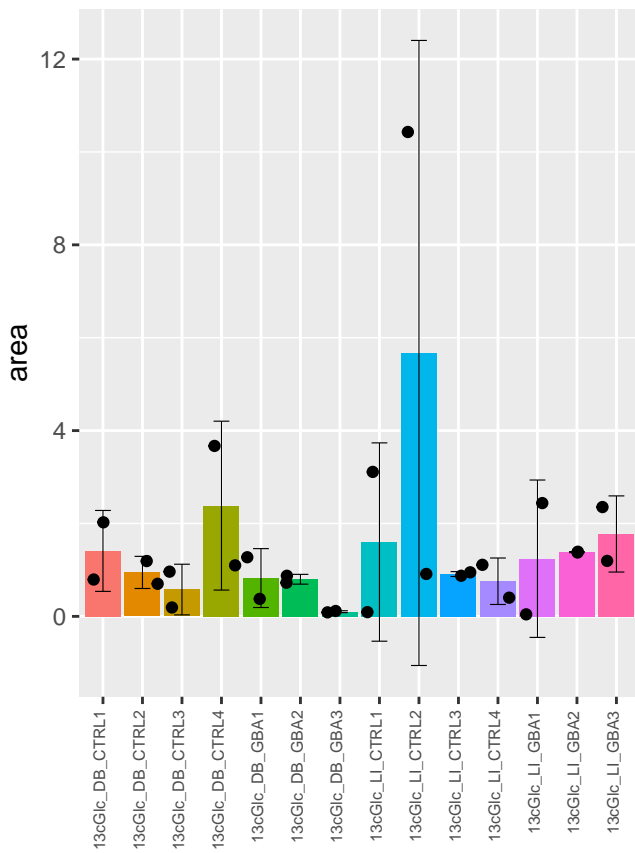
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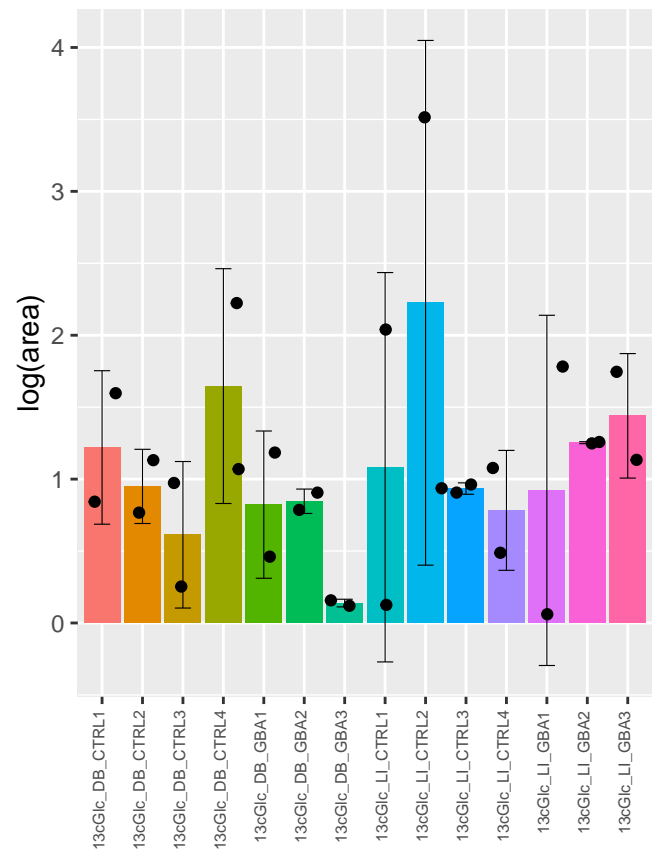
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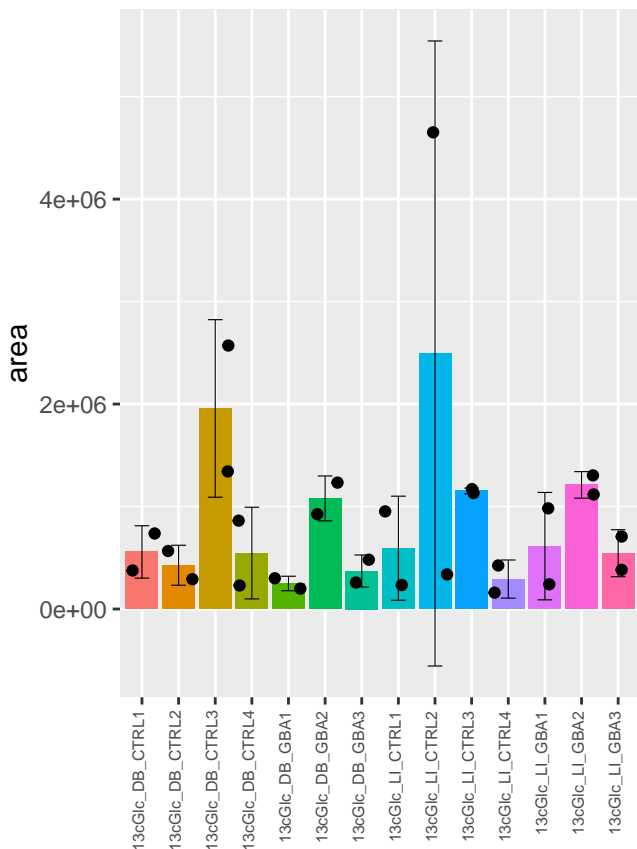
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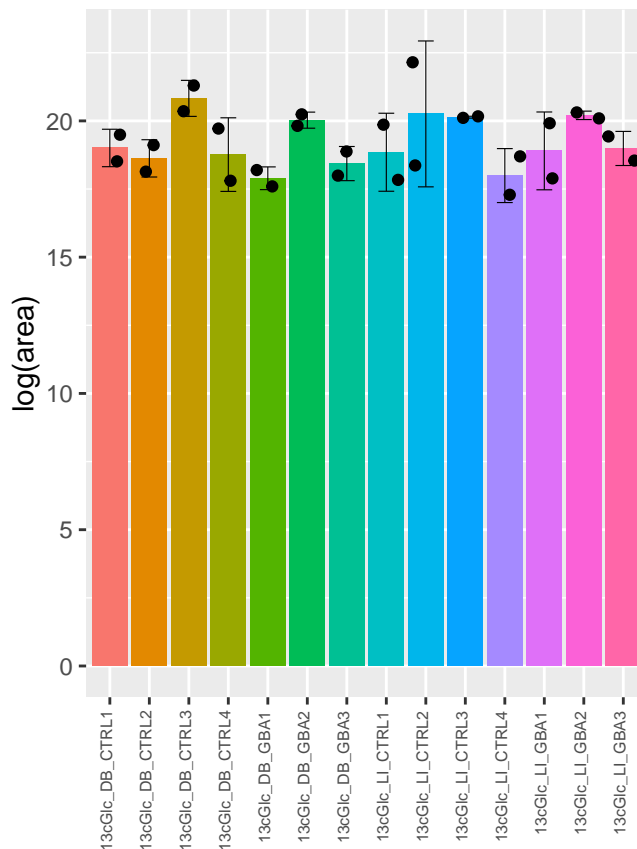
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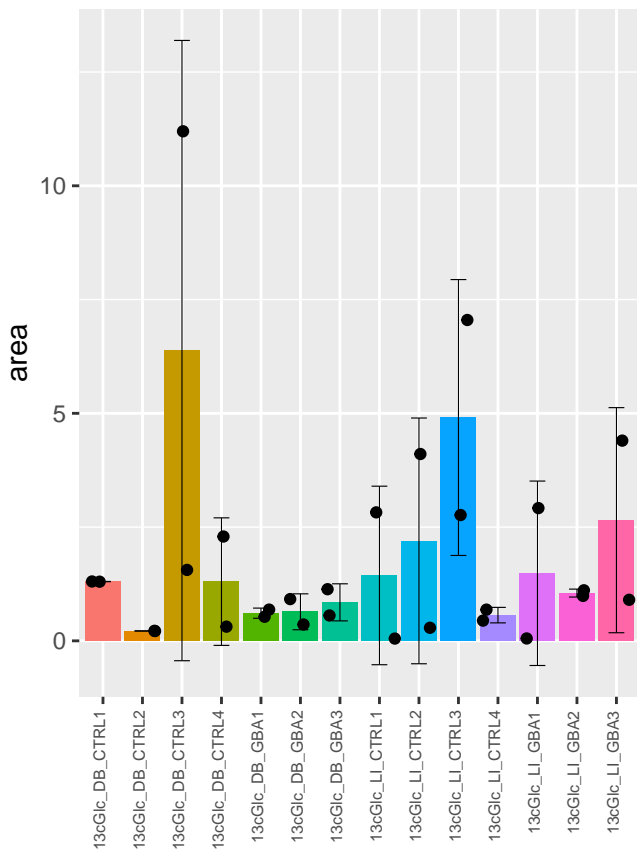
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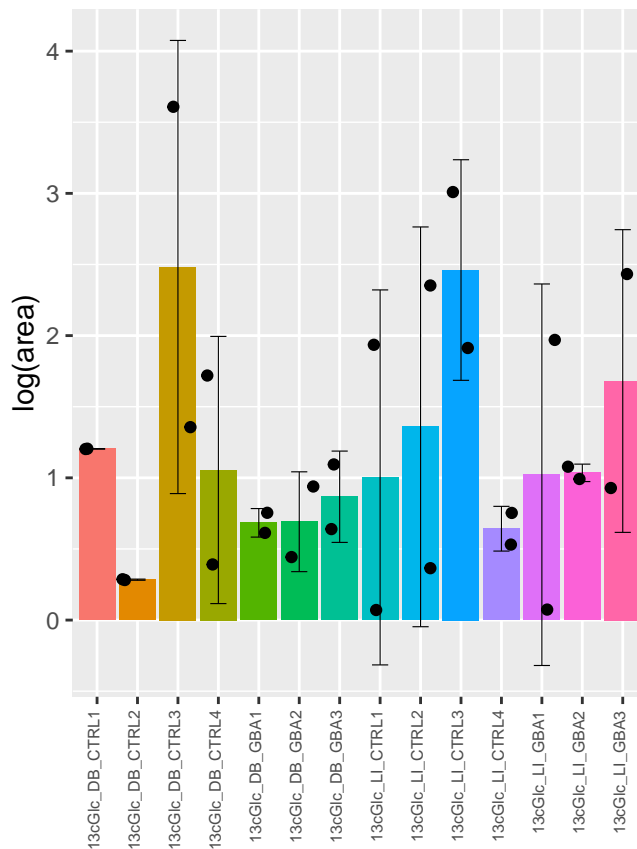
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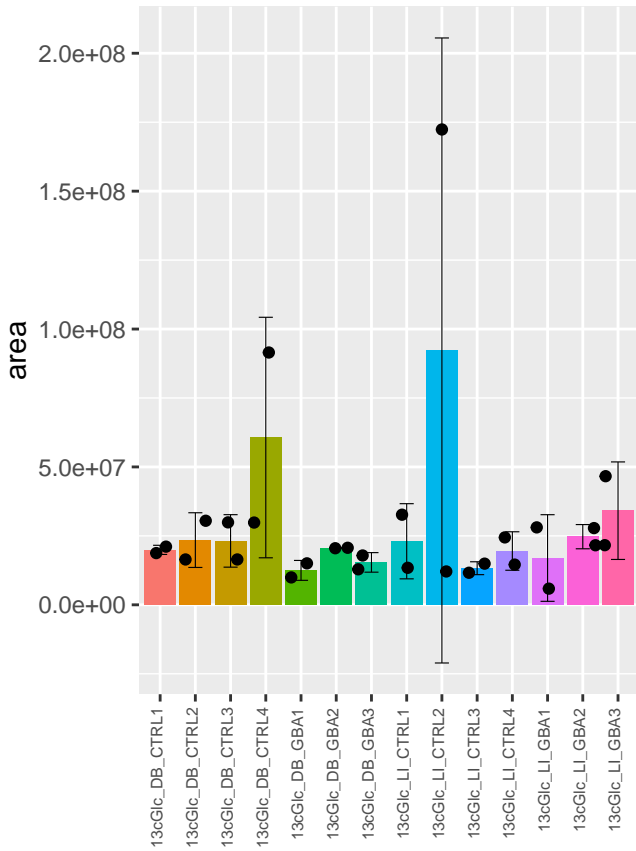
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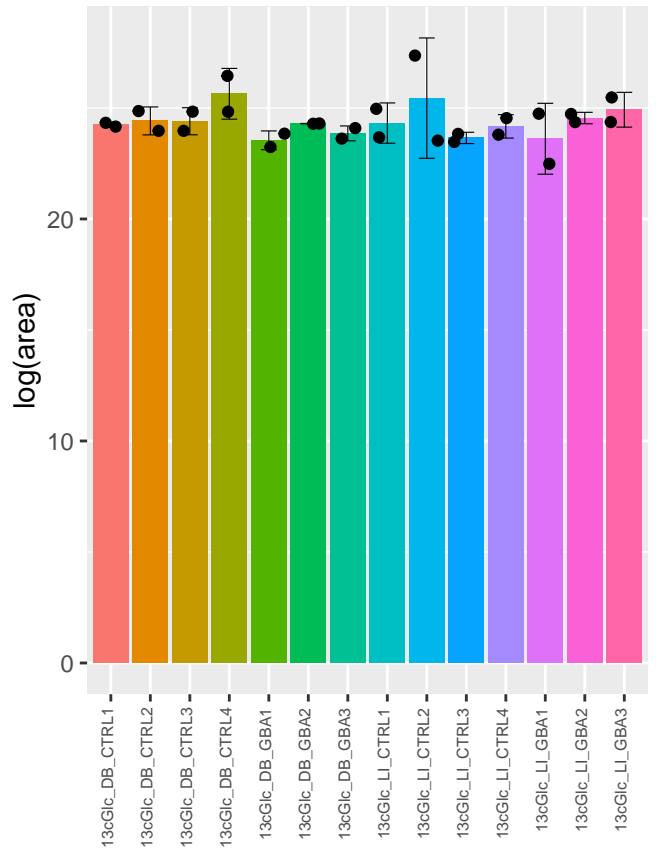
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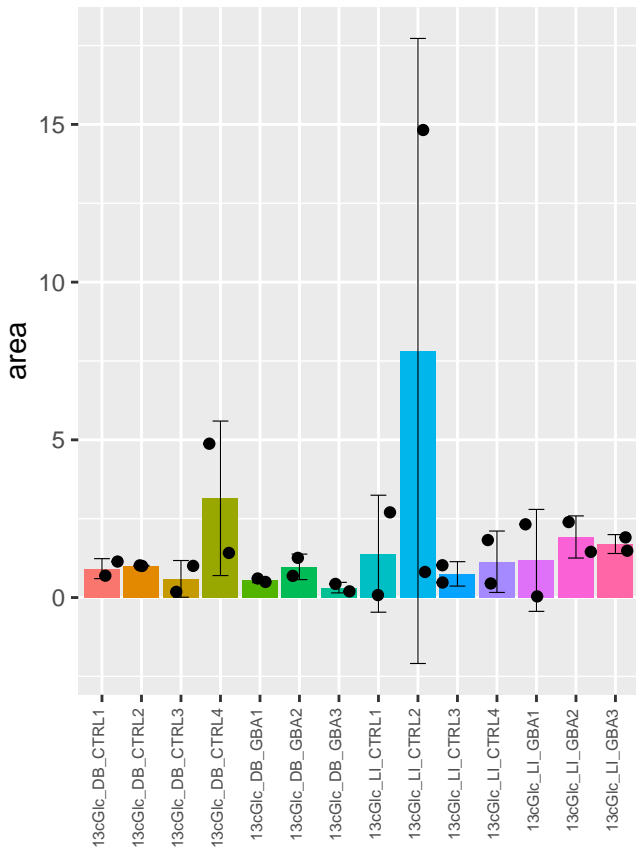
Alanine



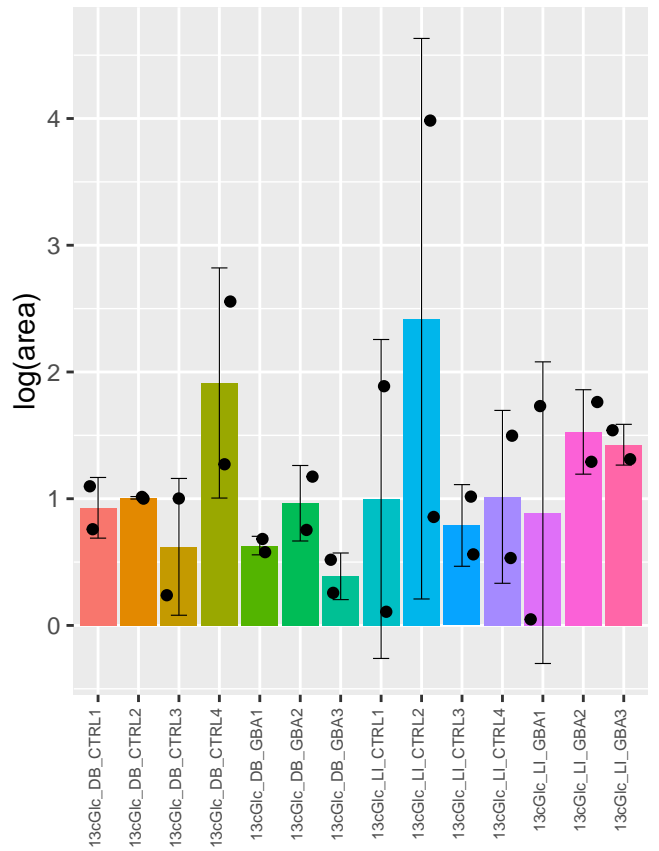
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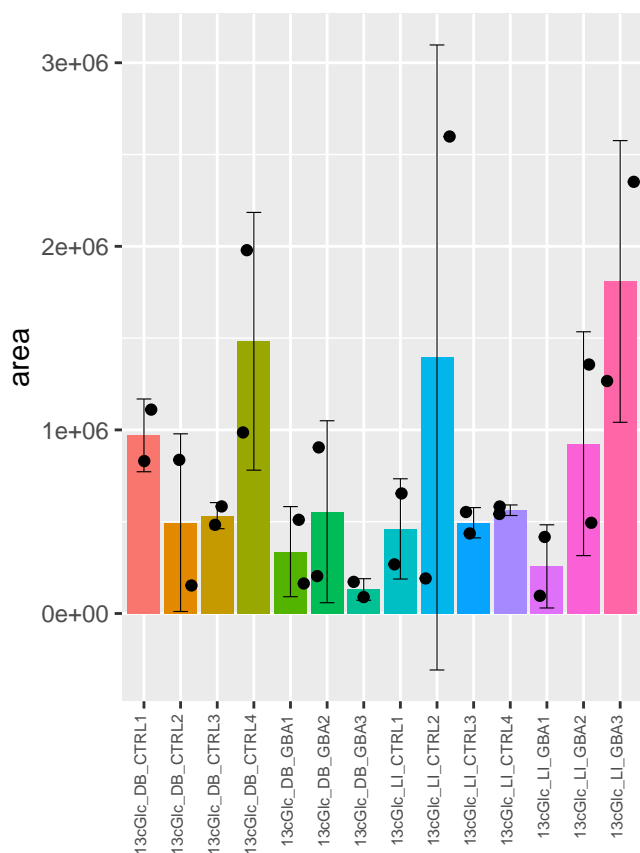
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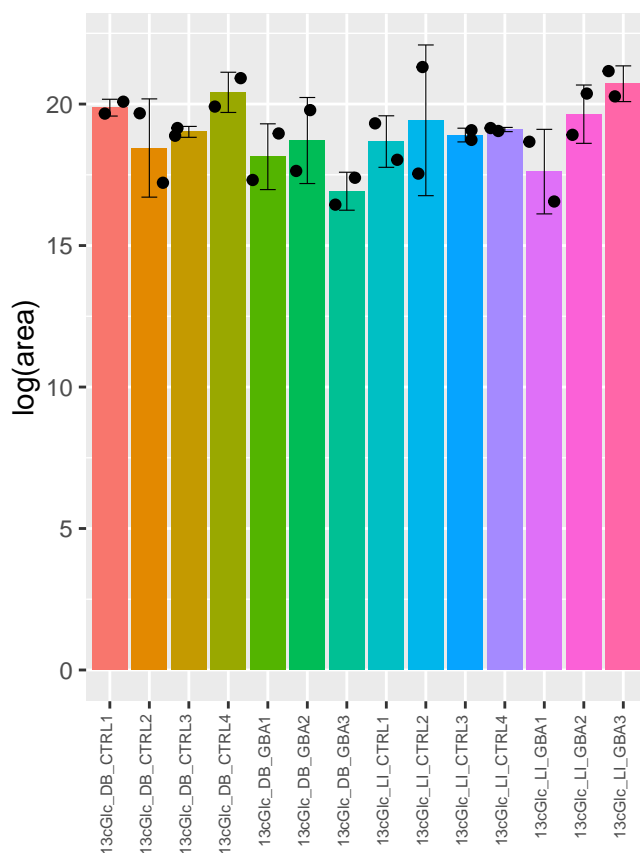
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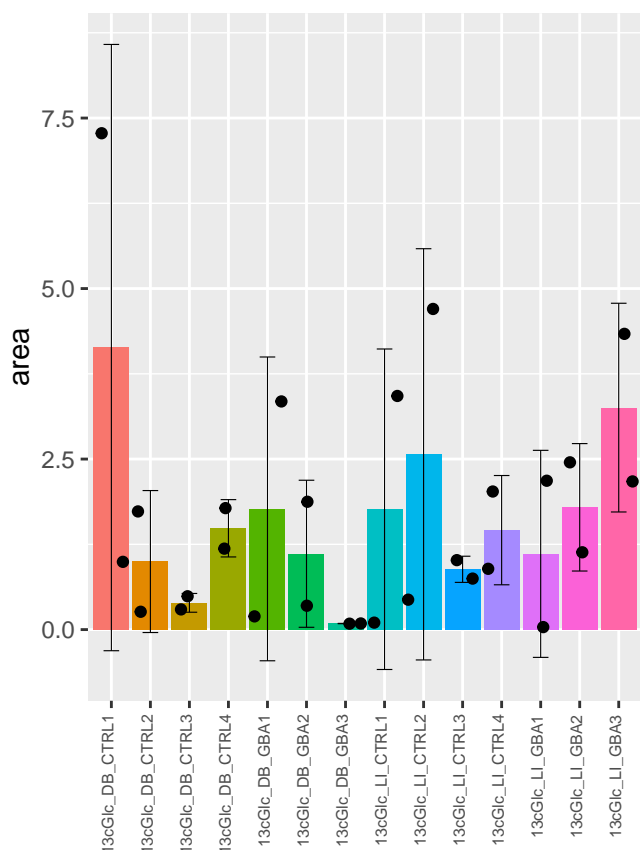
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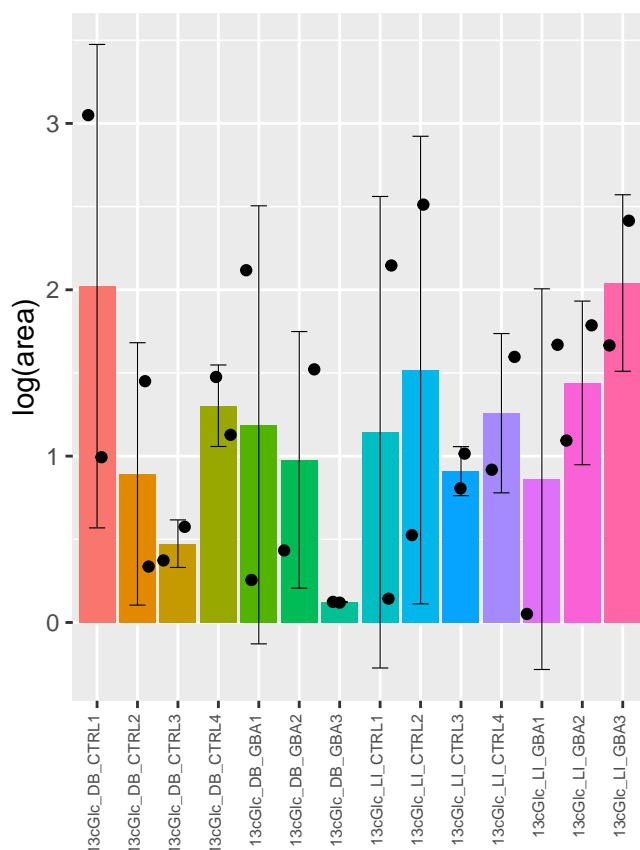
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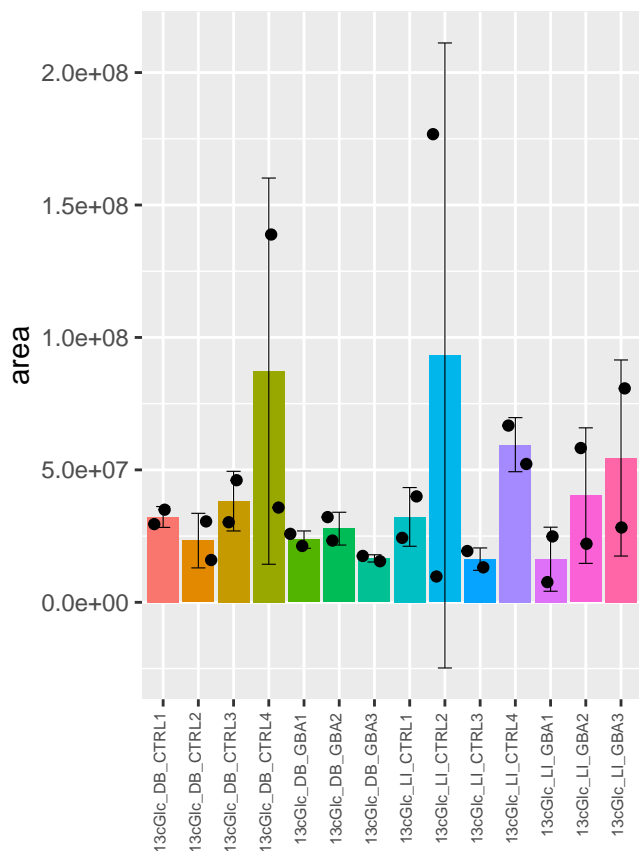
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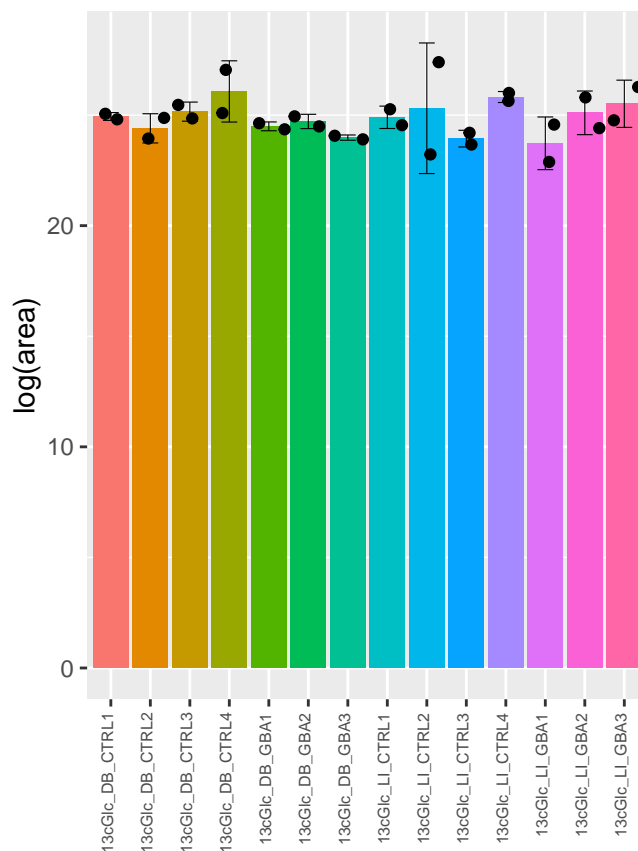
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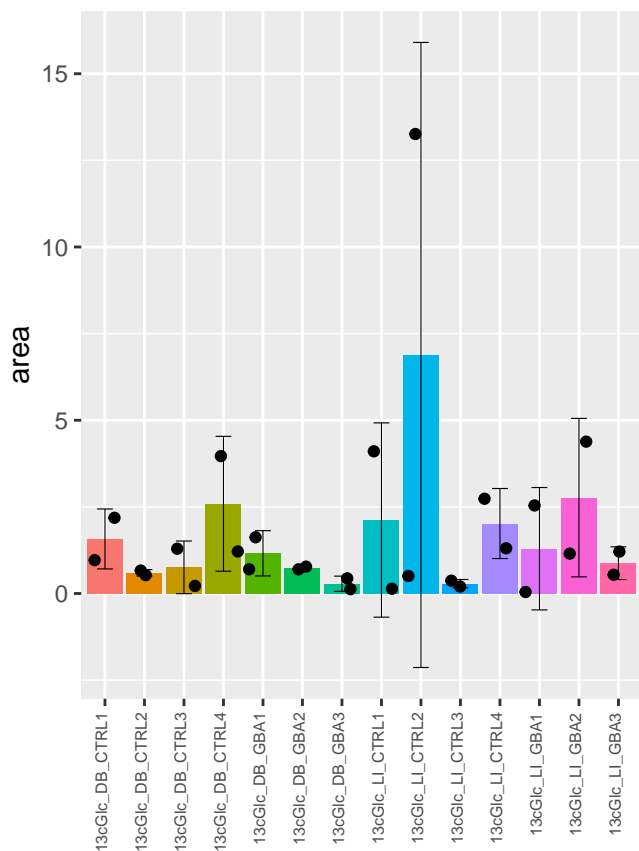
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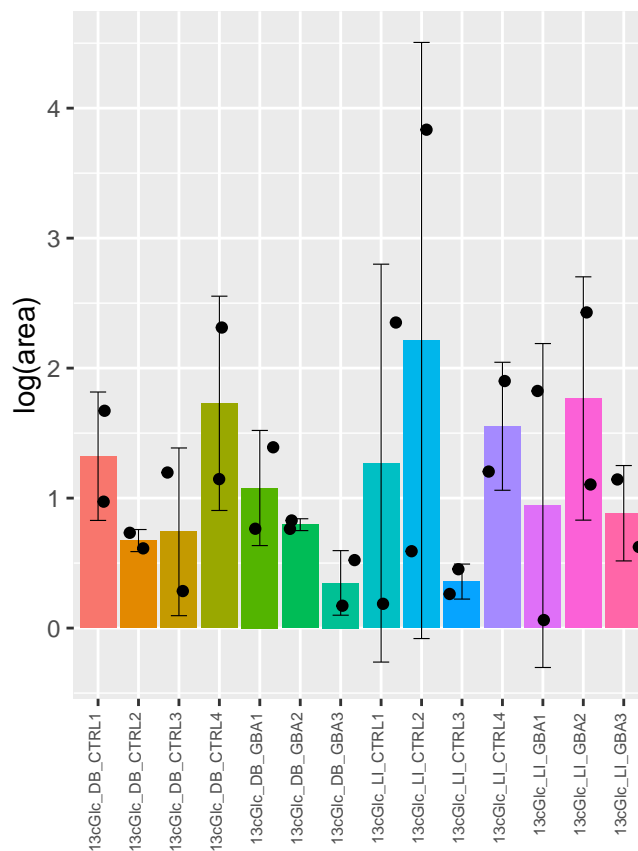
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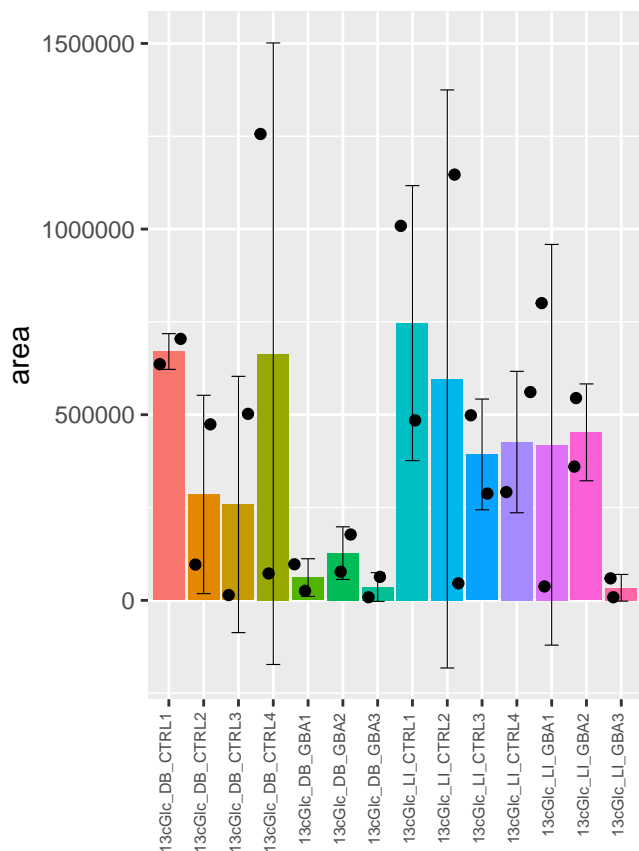
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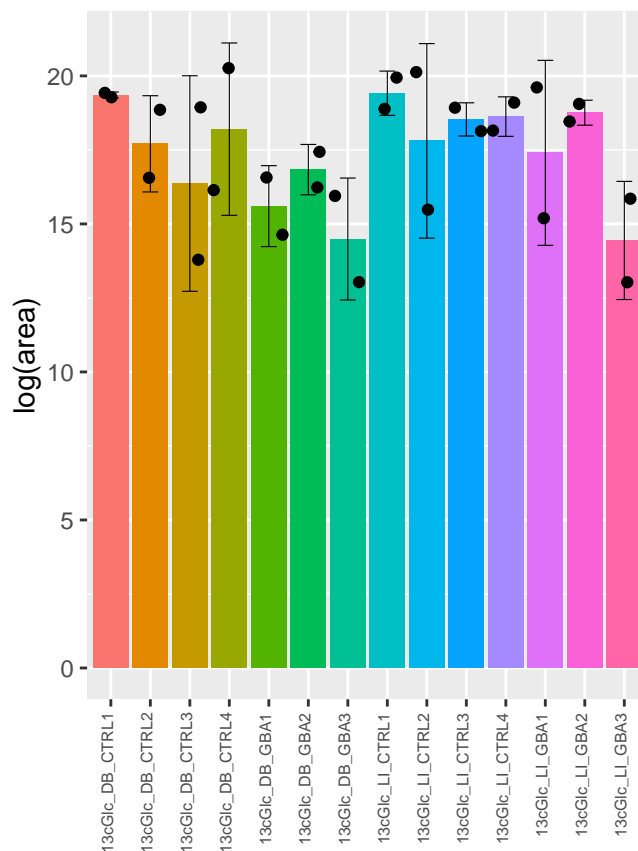
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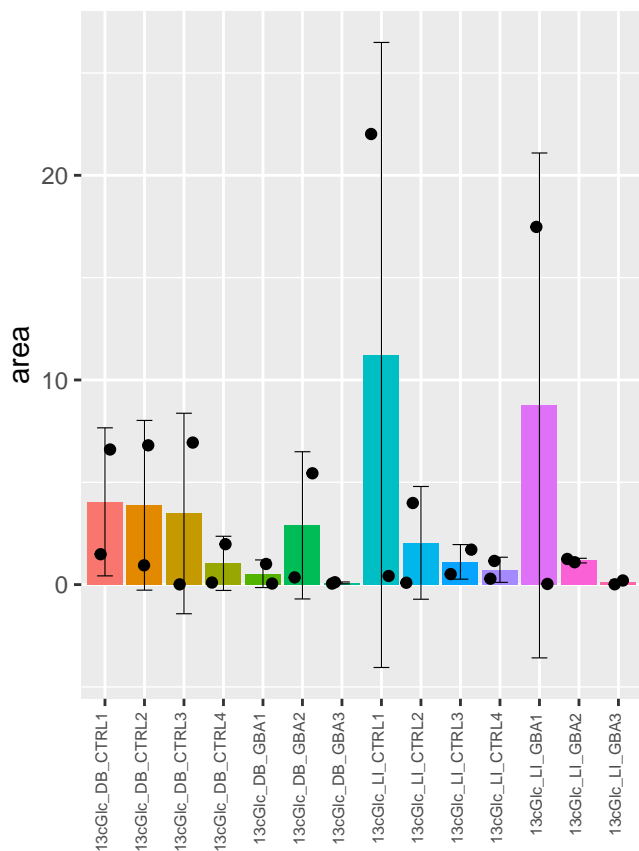
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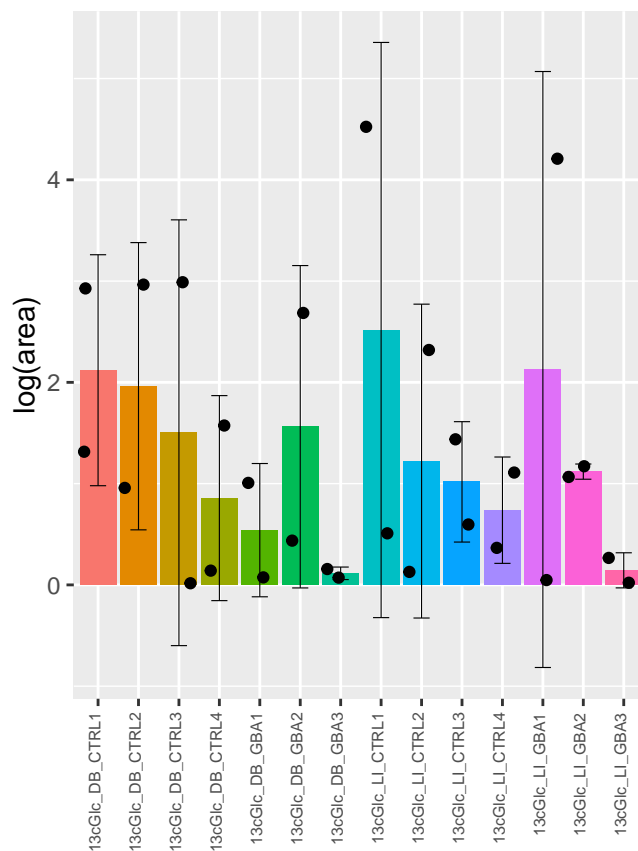
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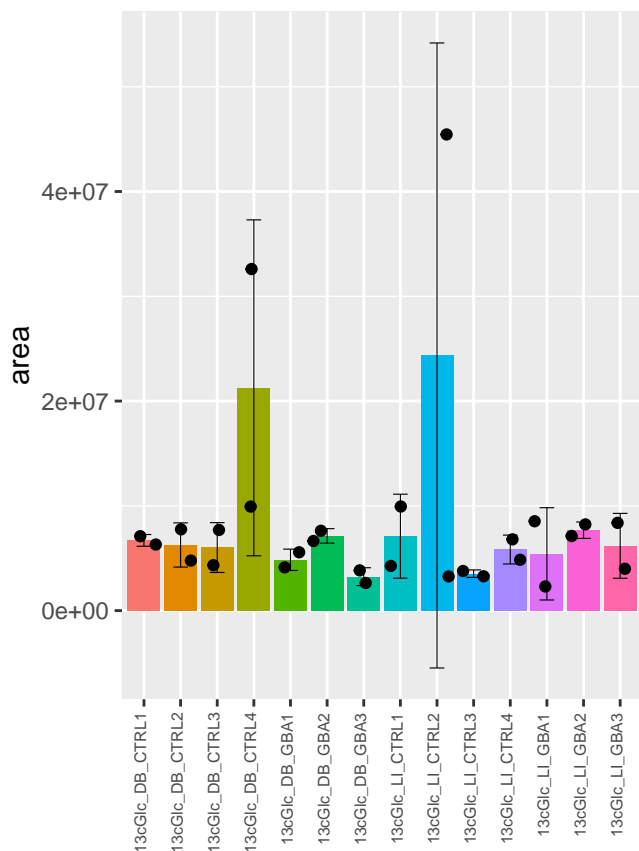
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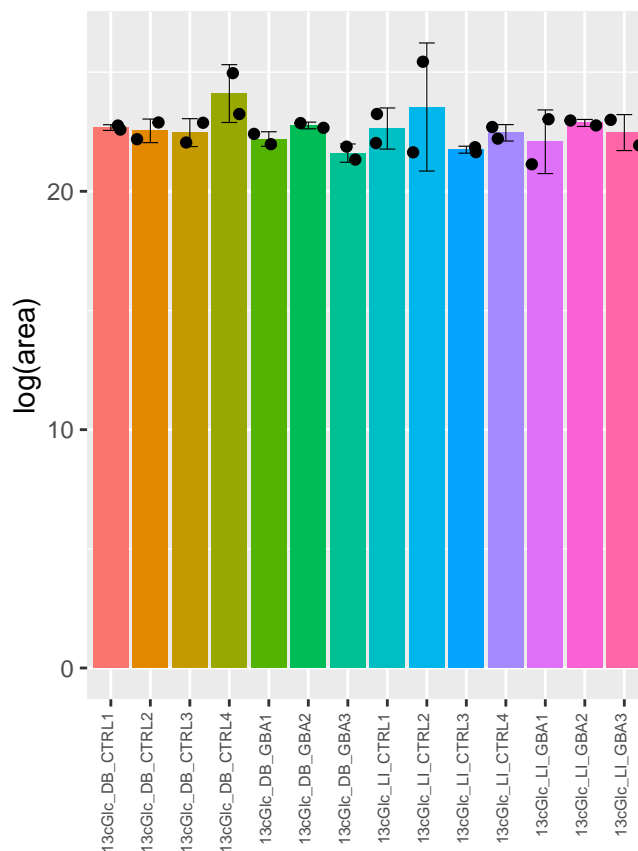
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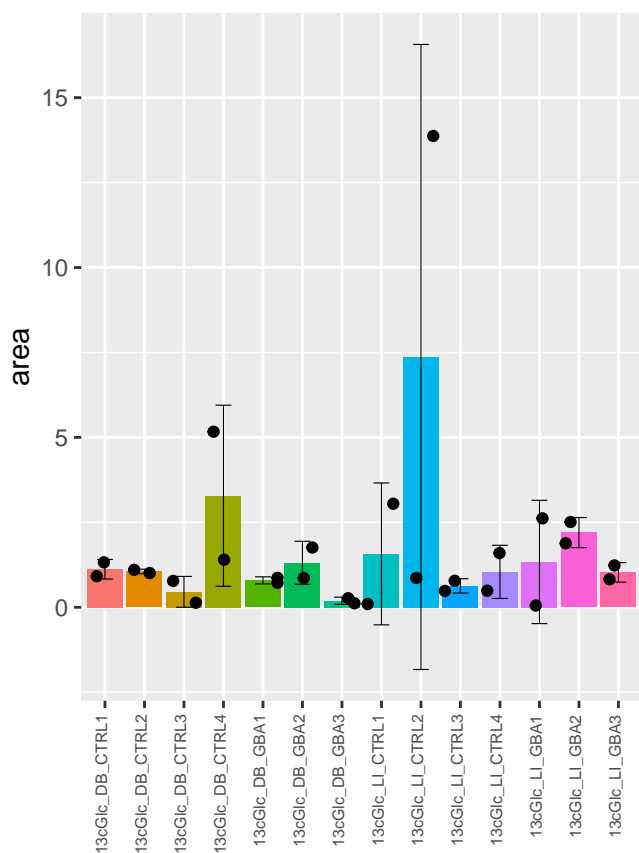
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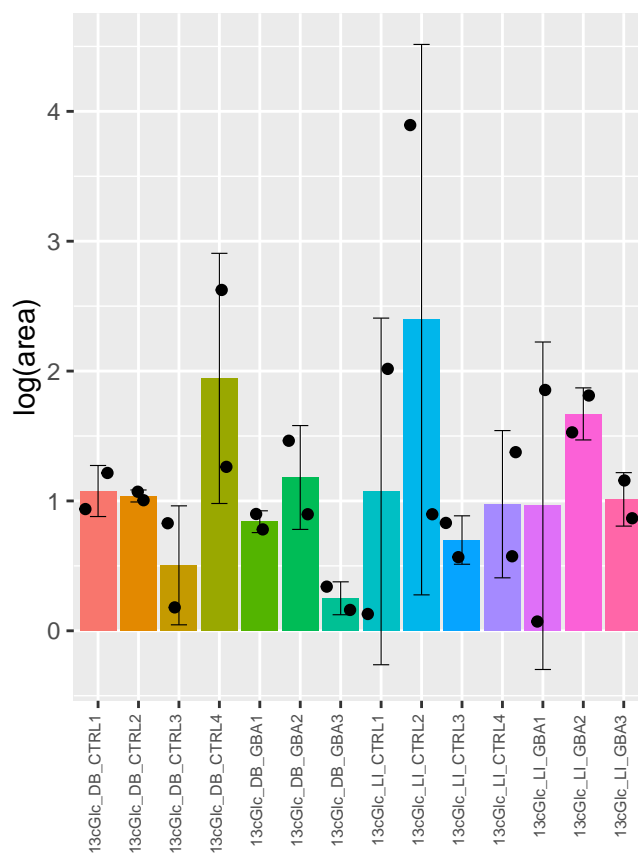
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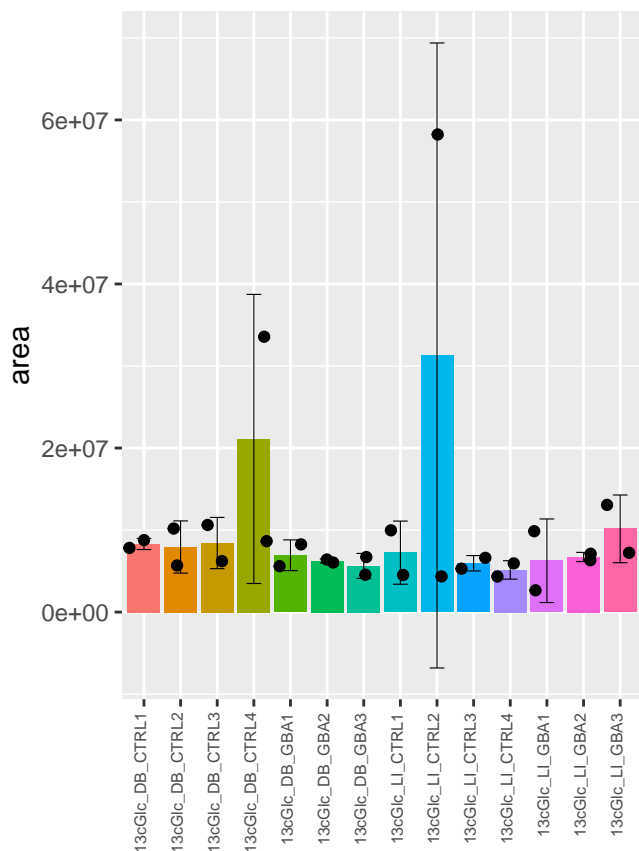
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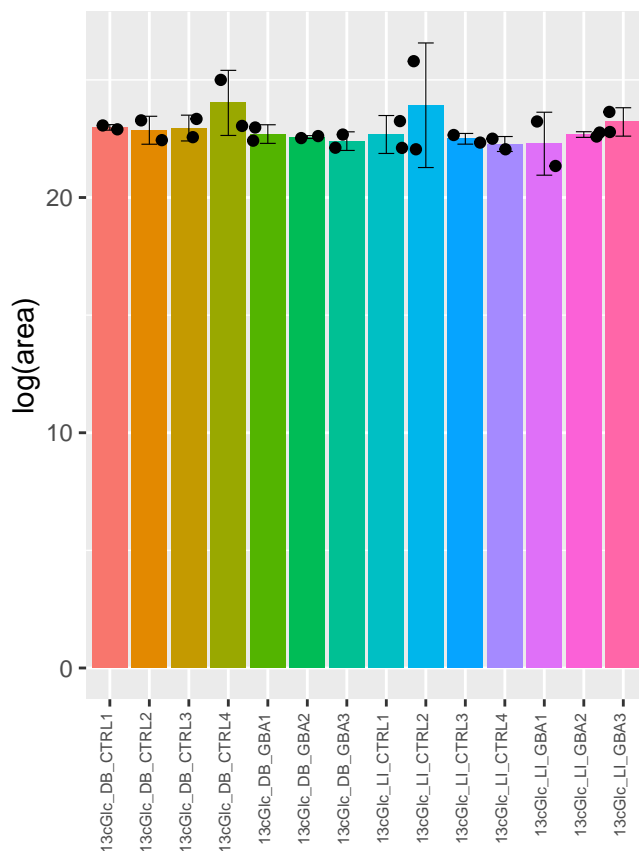
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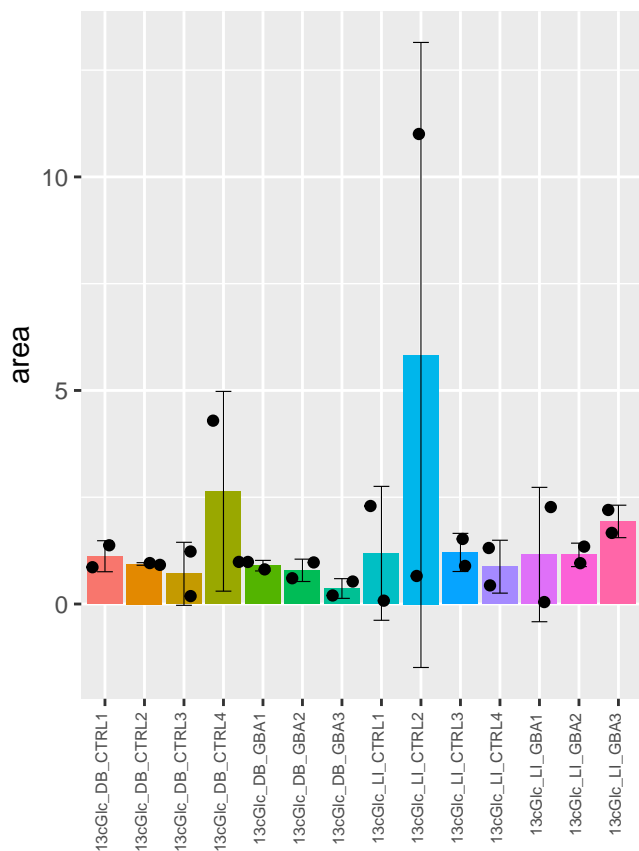
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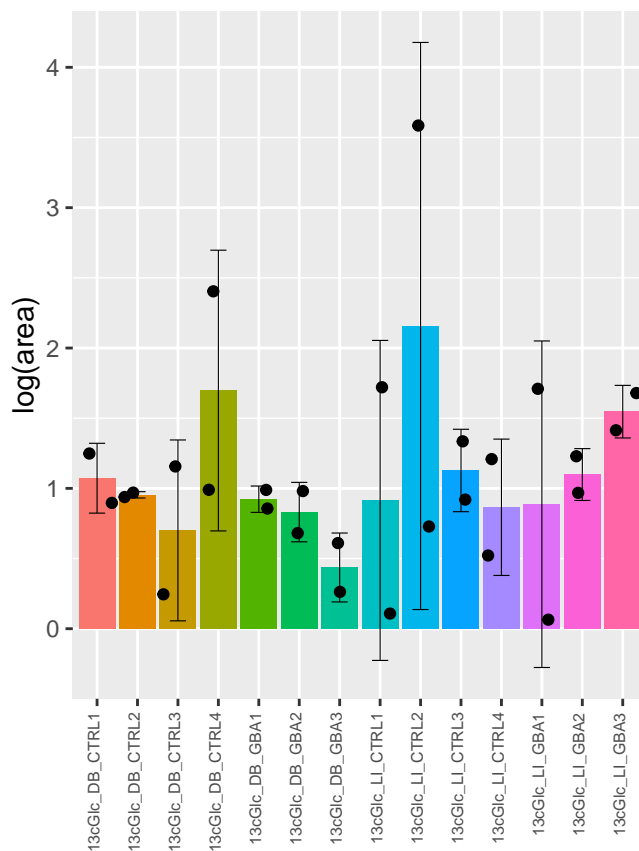
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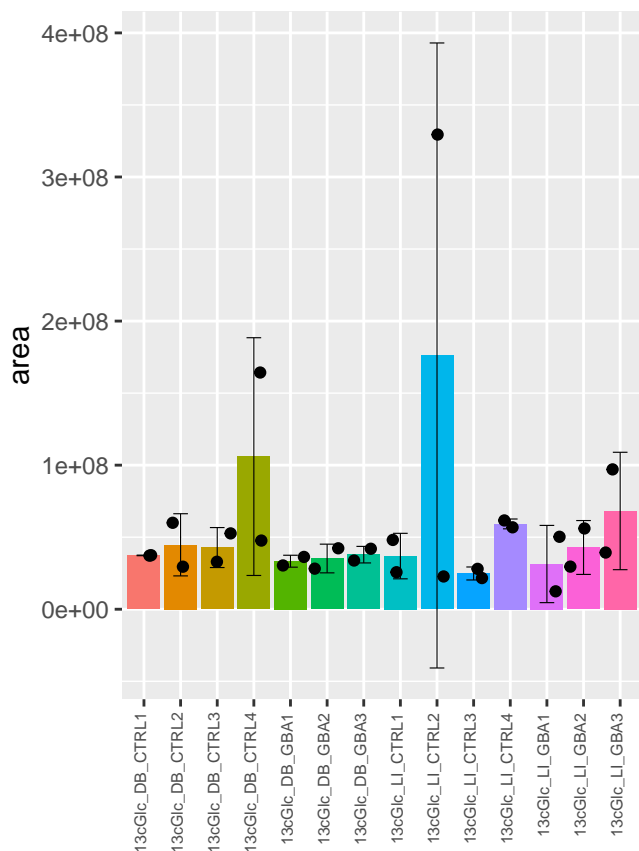
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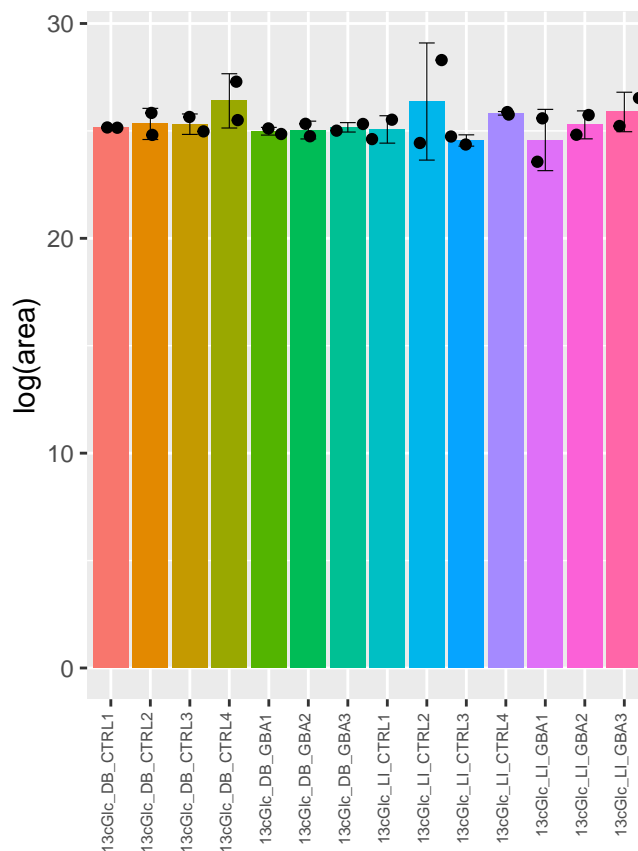
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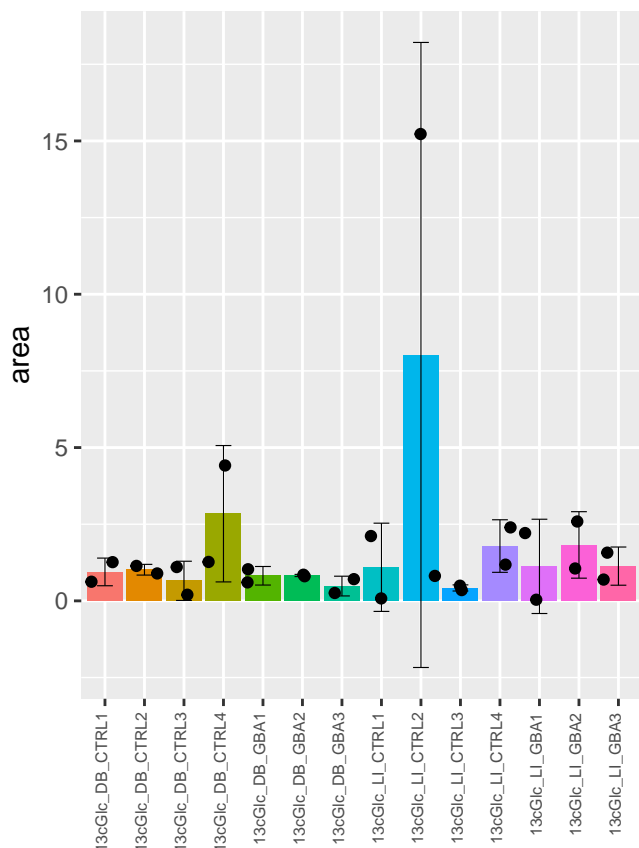
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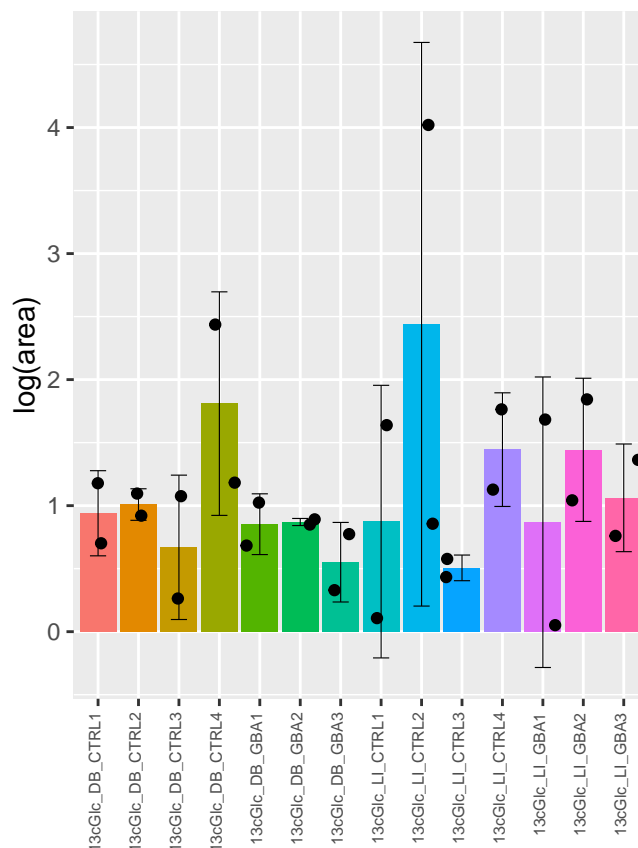
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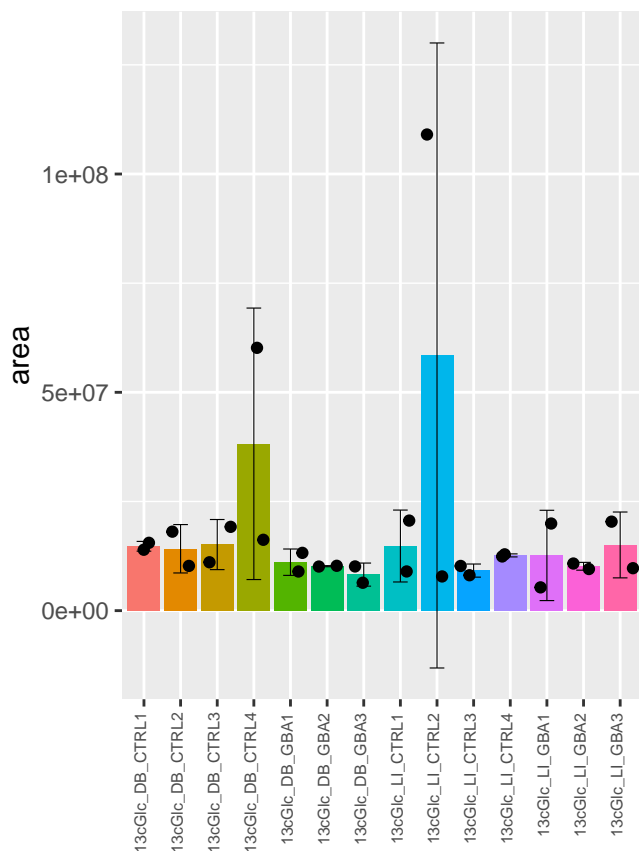
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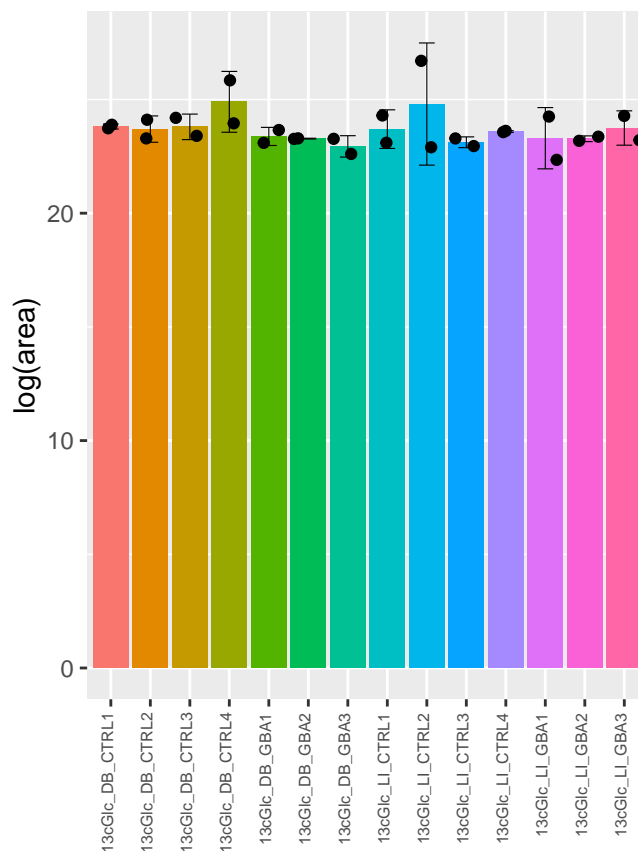
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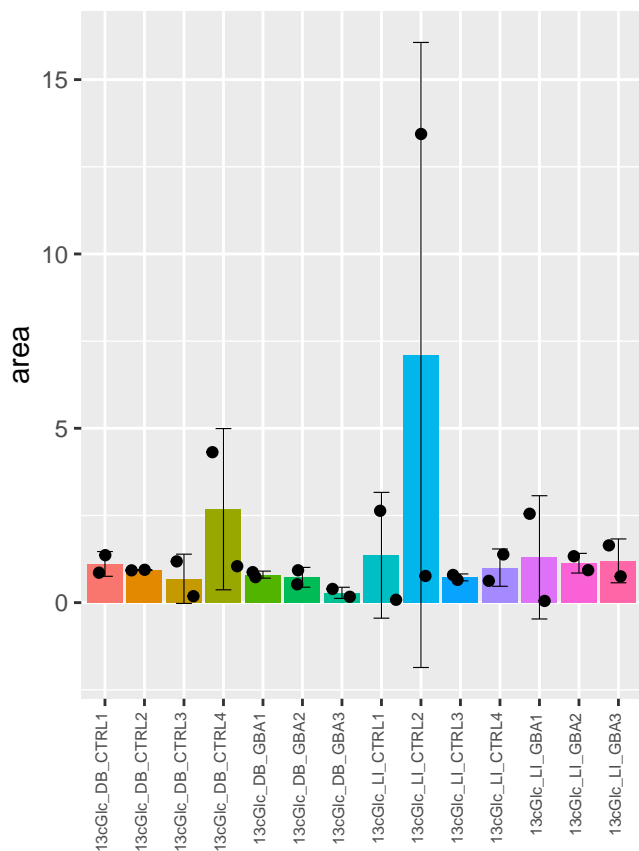
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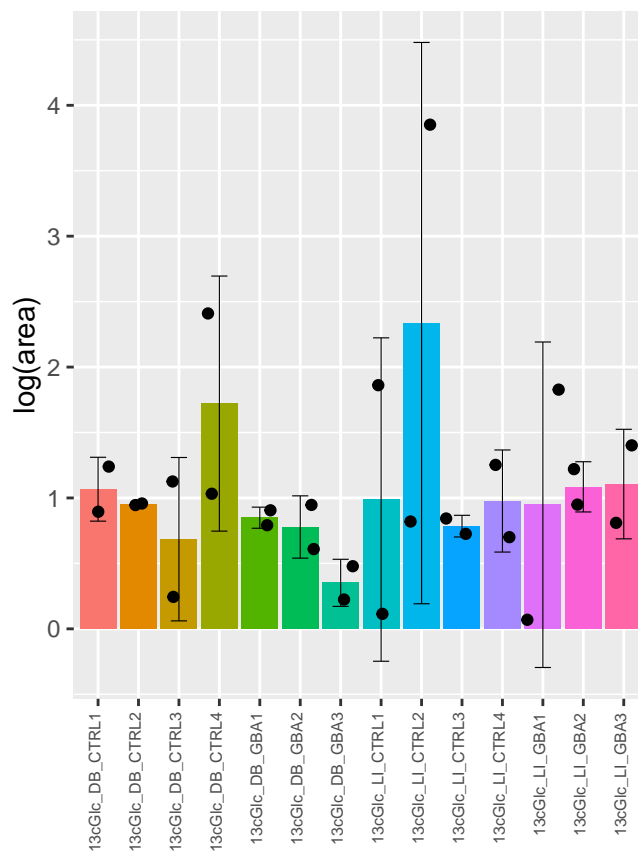
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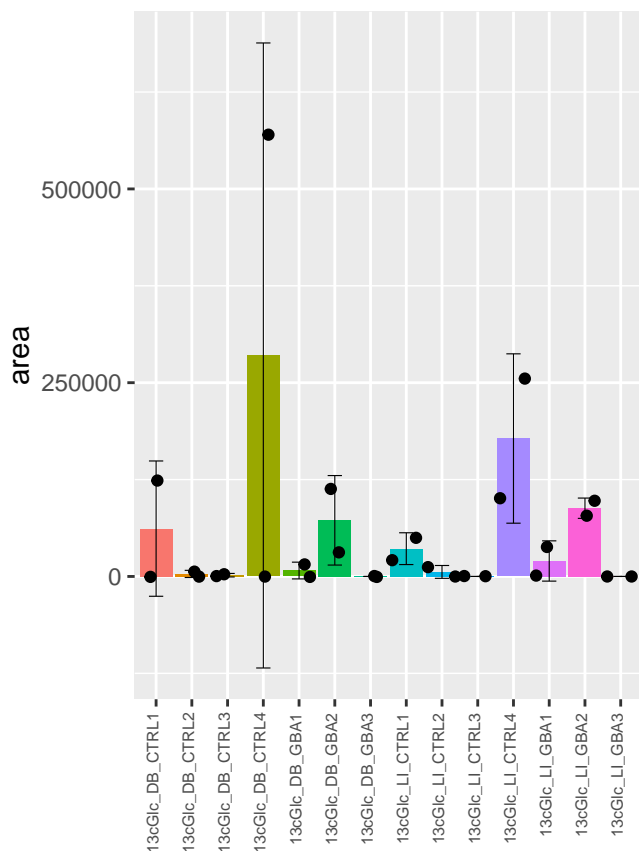
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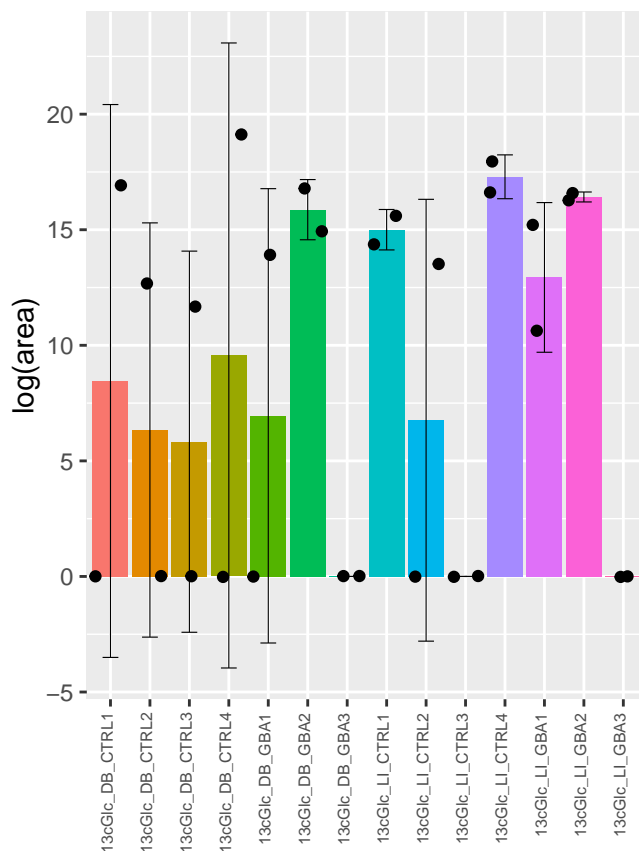
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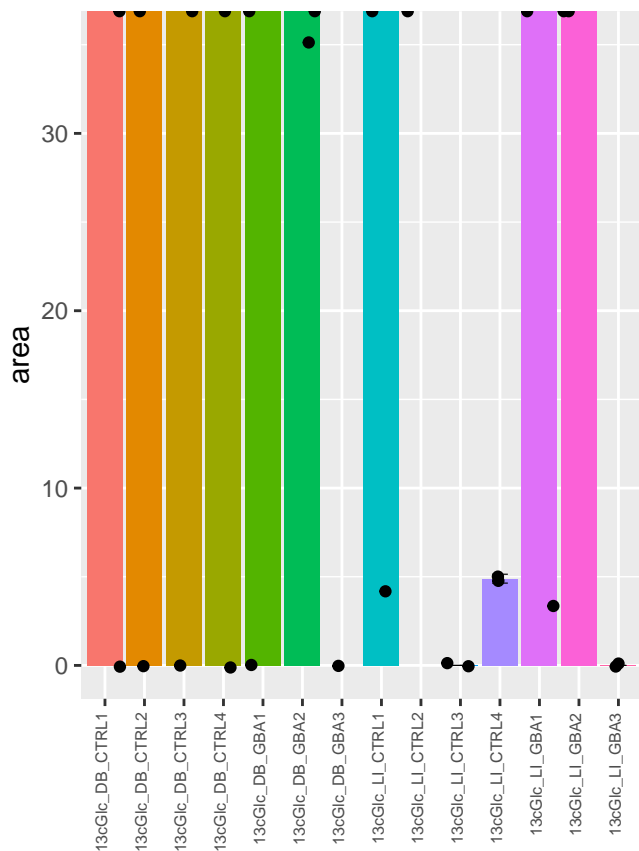
Citrulline



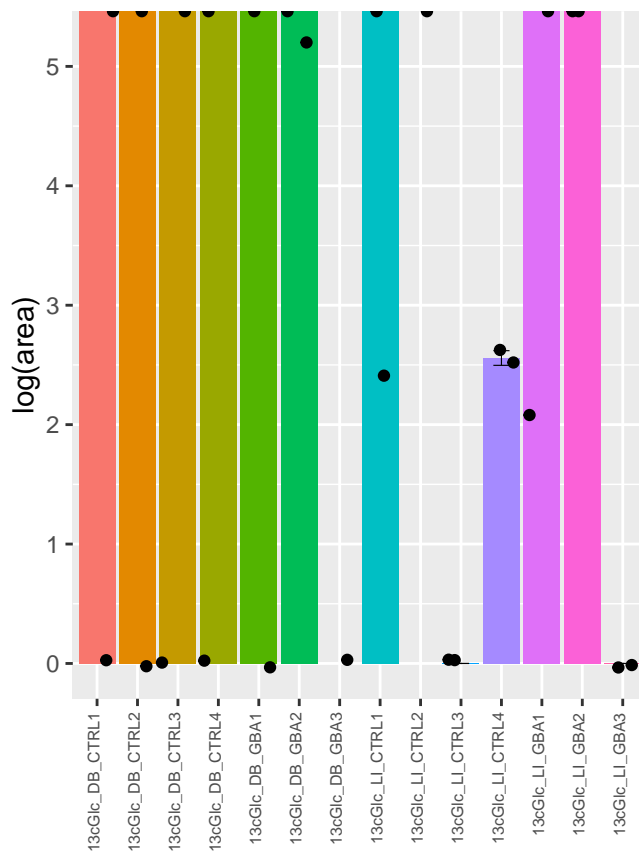
Citrulline



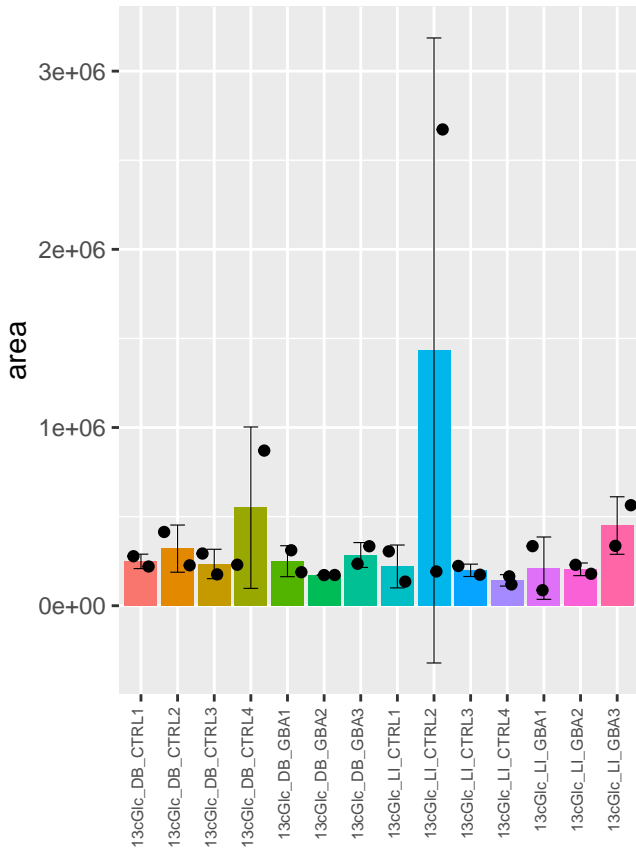
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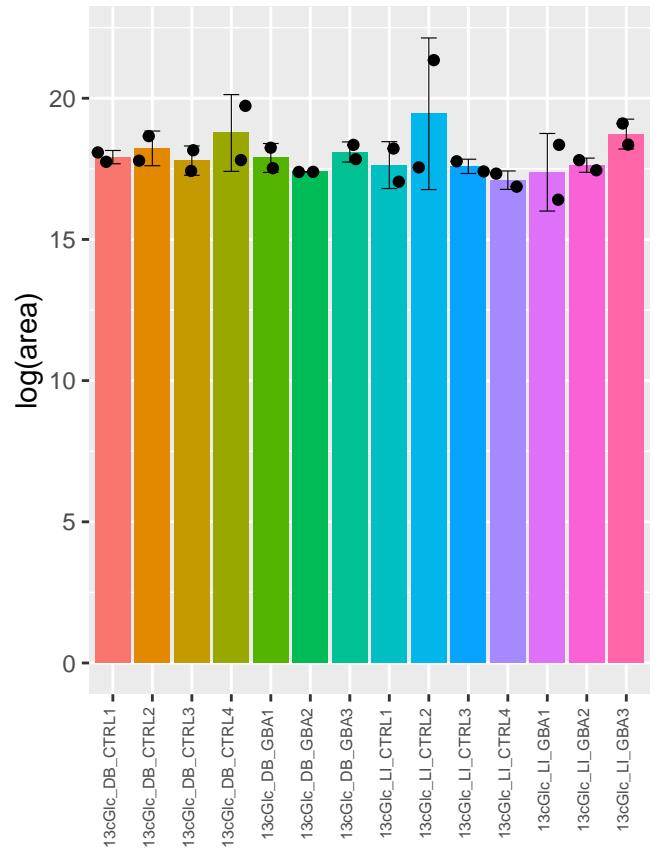
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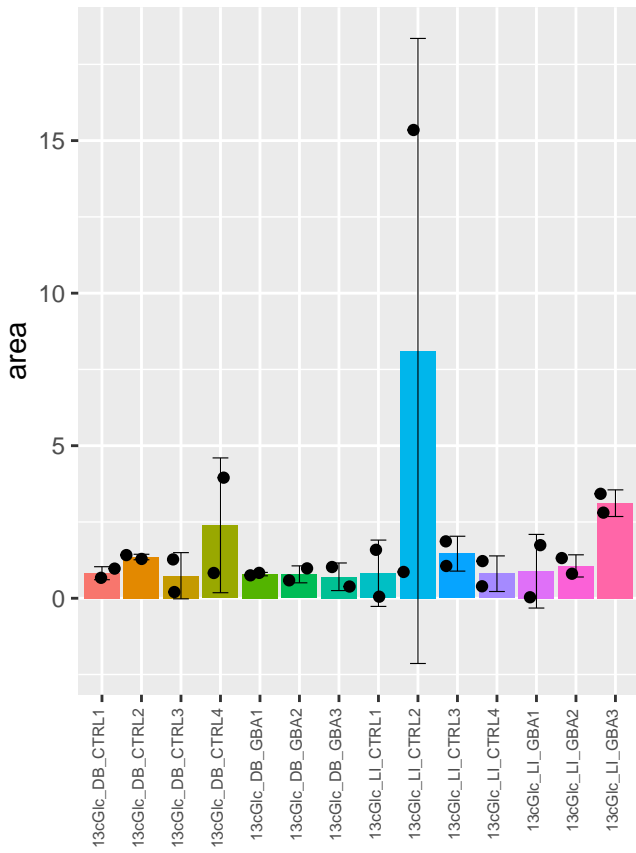
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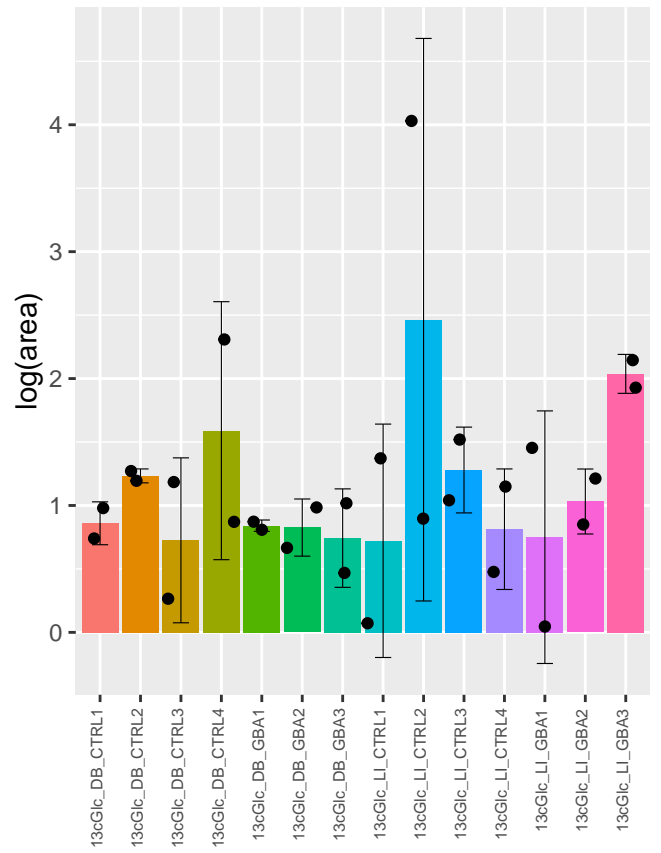
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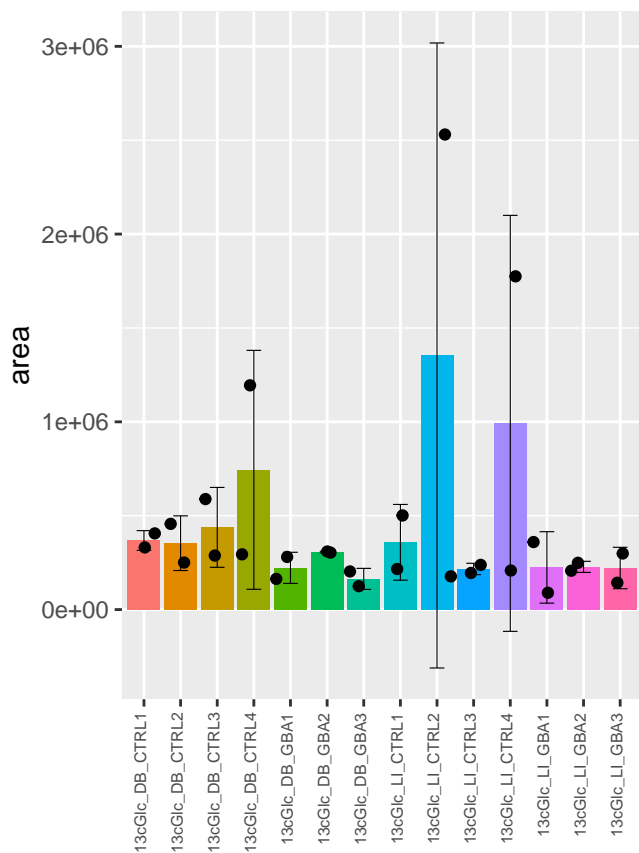
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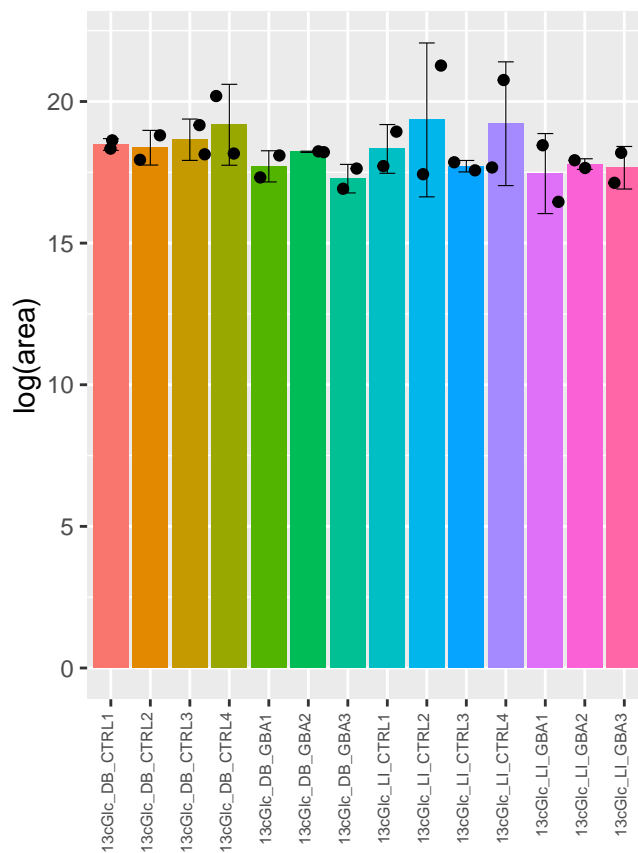
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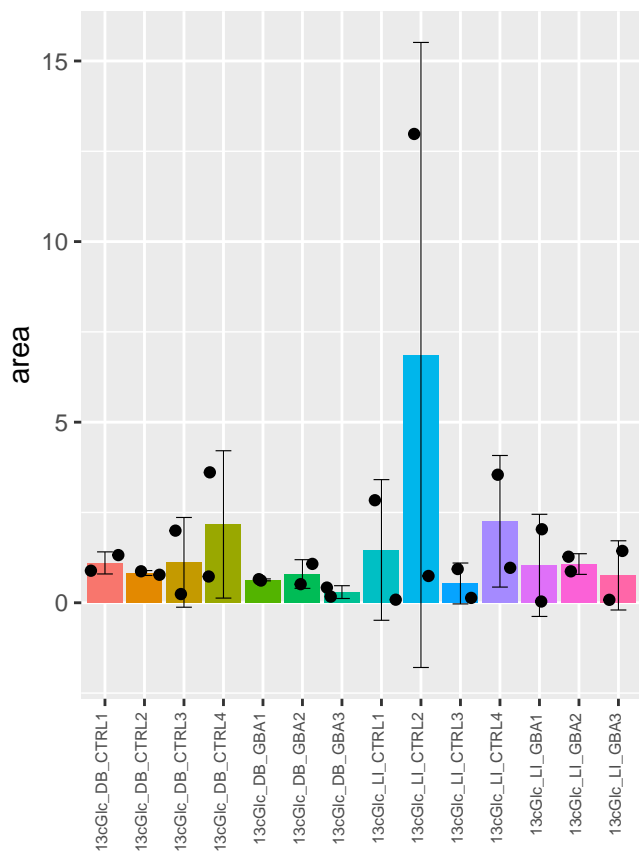
Cystathionine



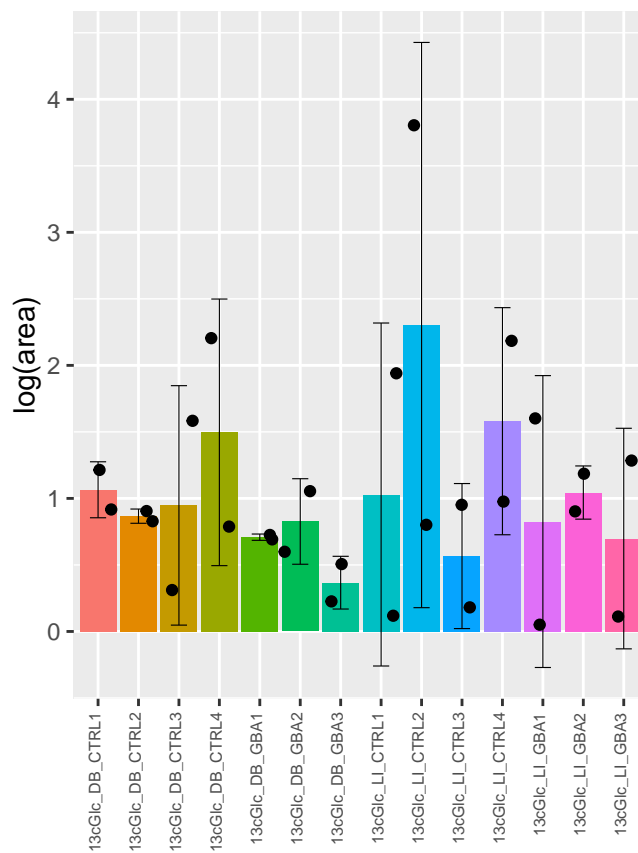
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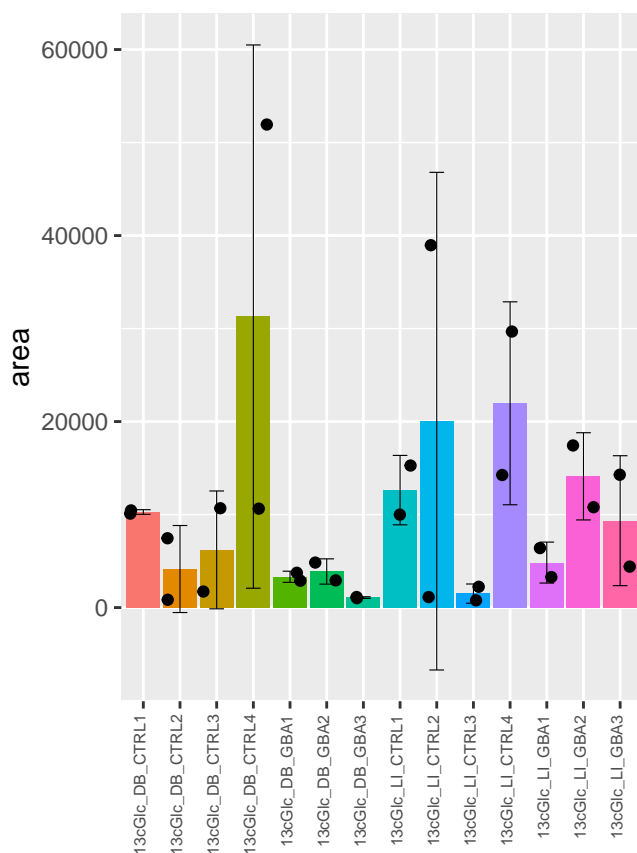
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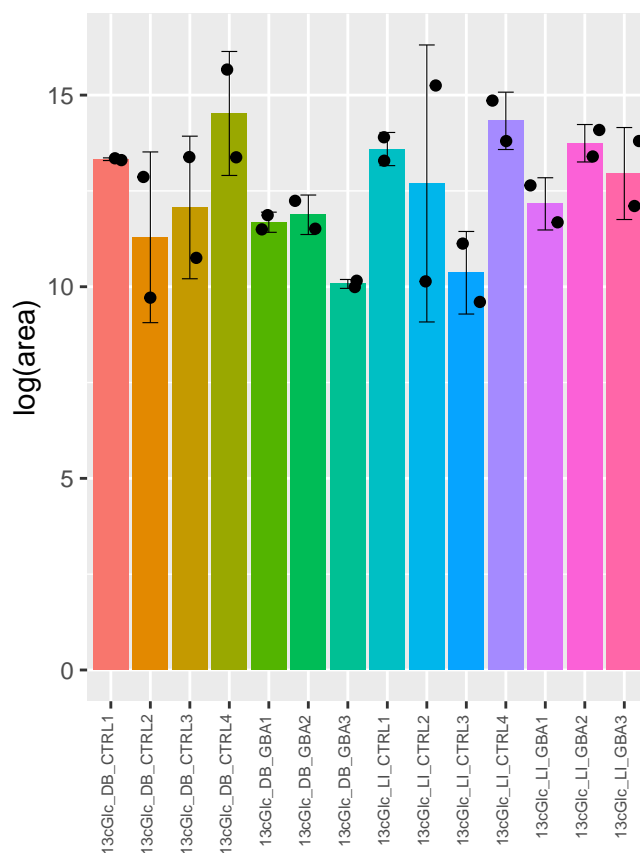
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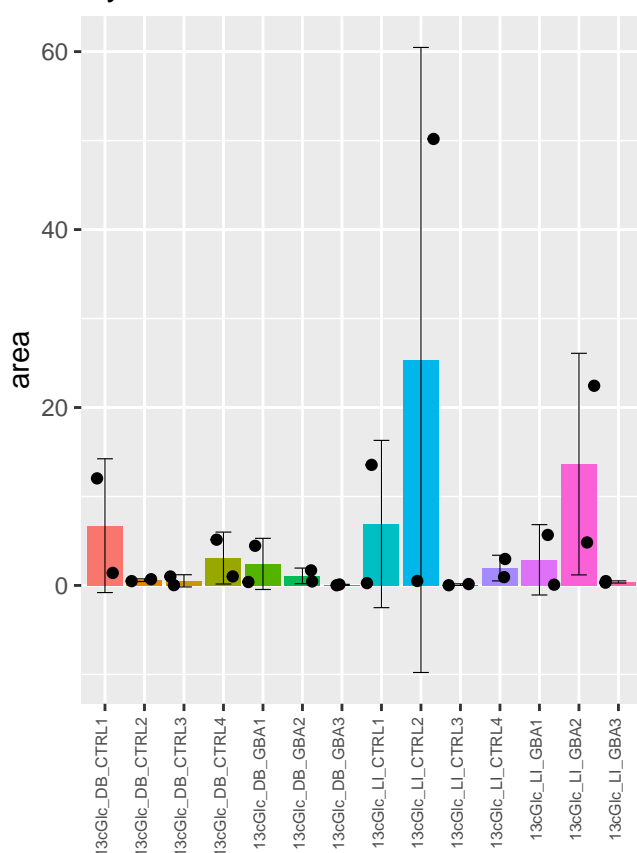
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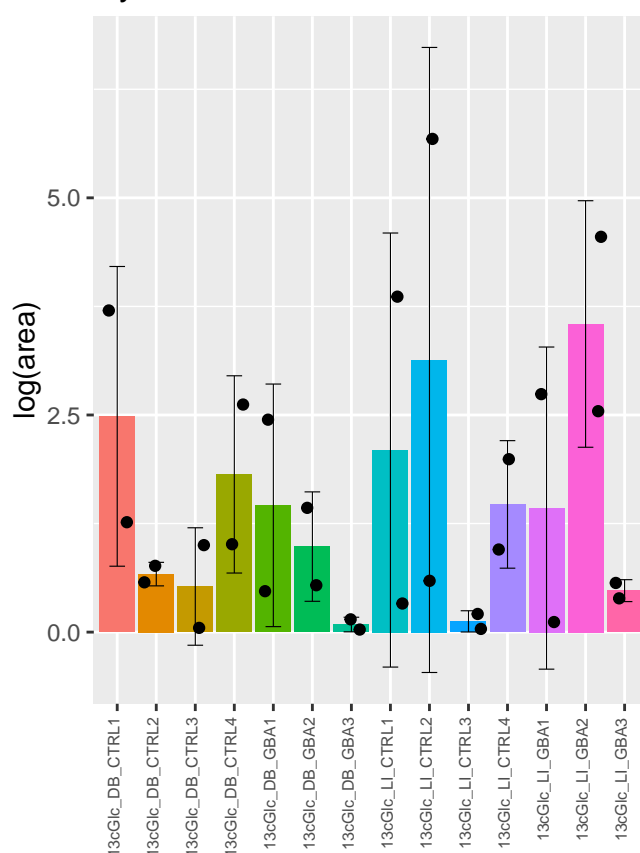
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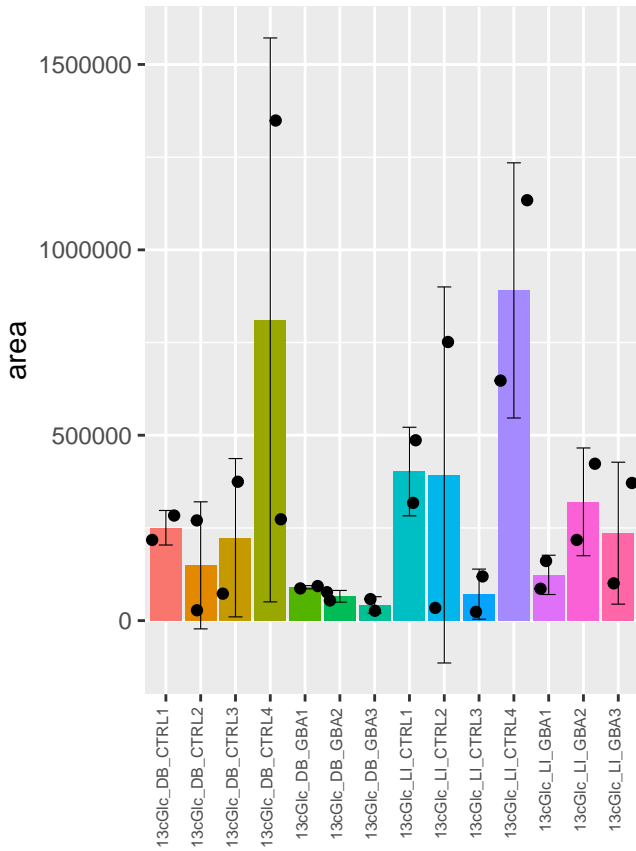
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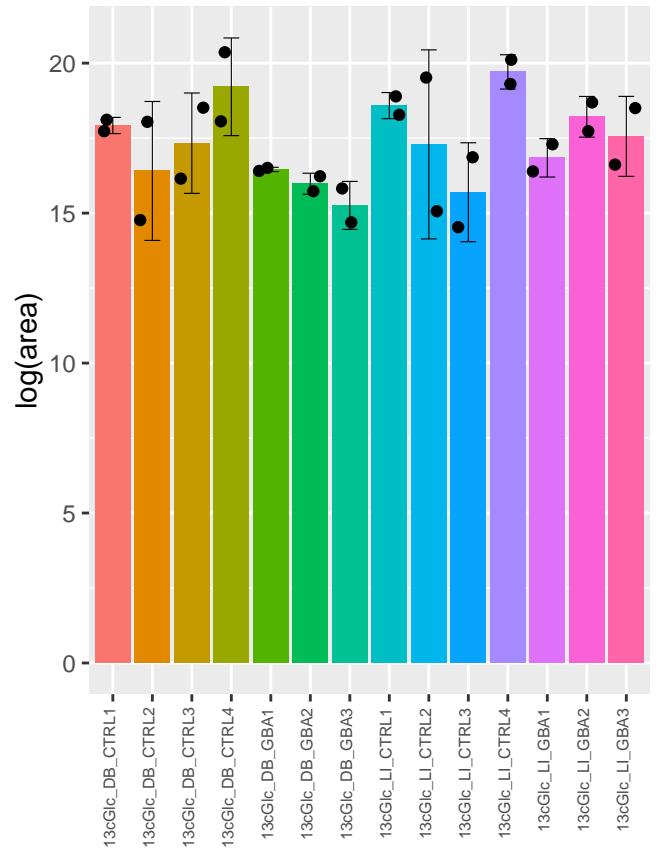
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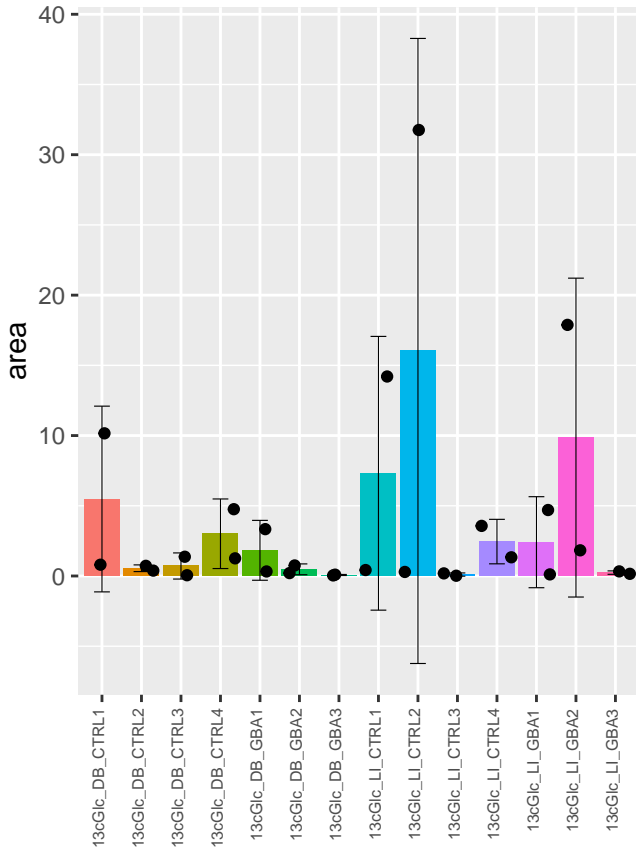
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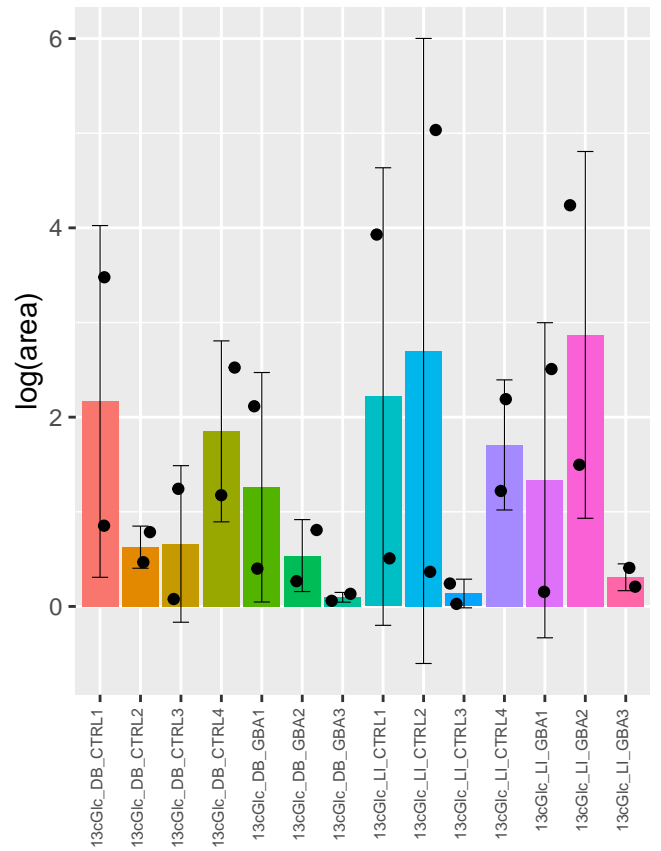
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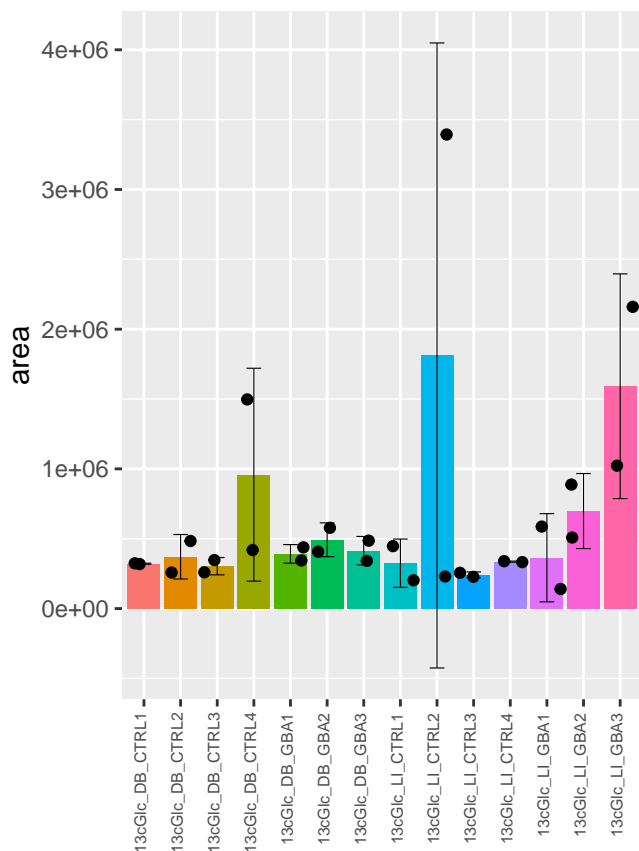
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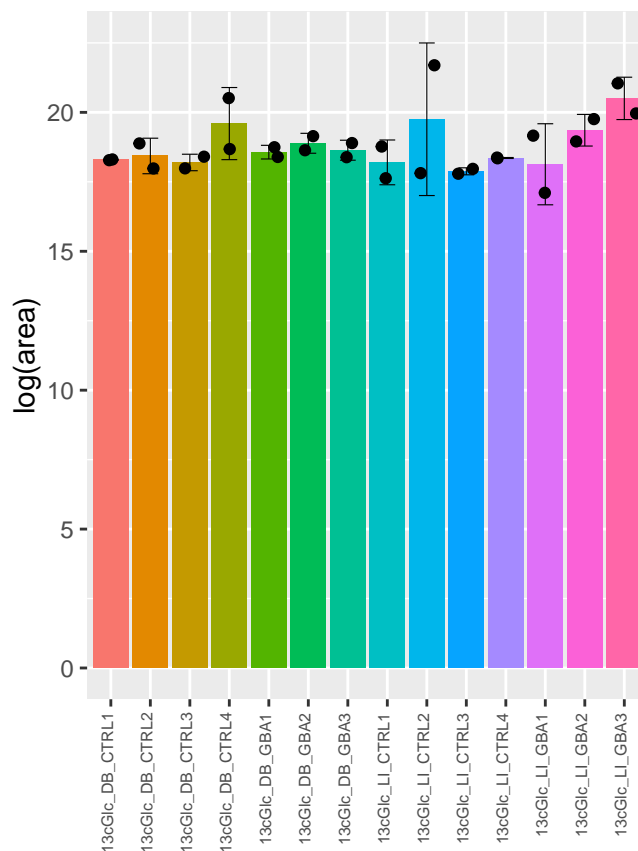
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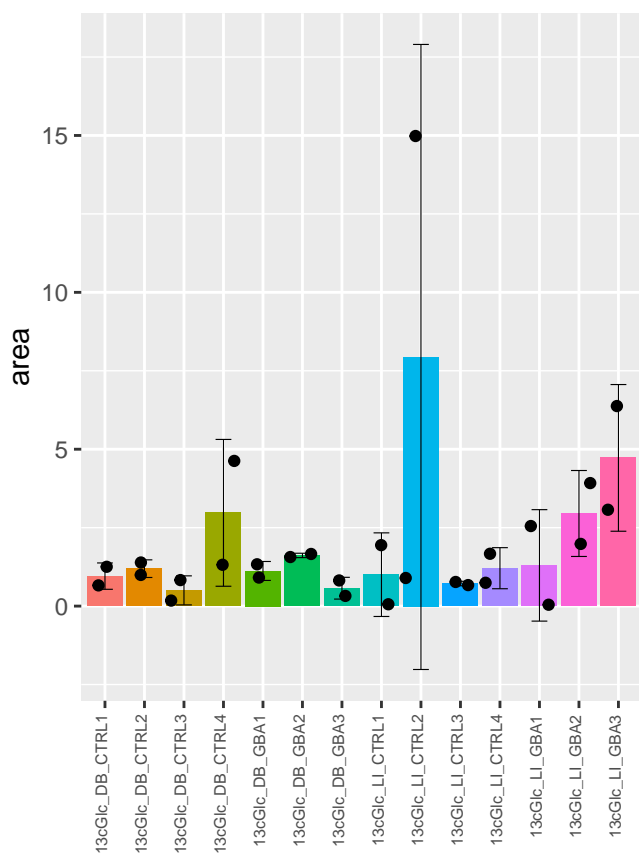
Cytidine



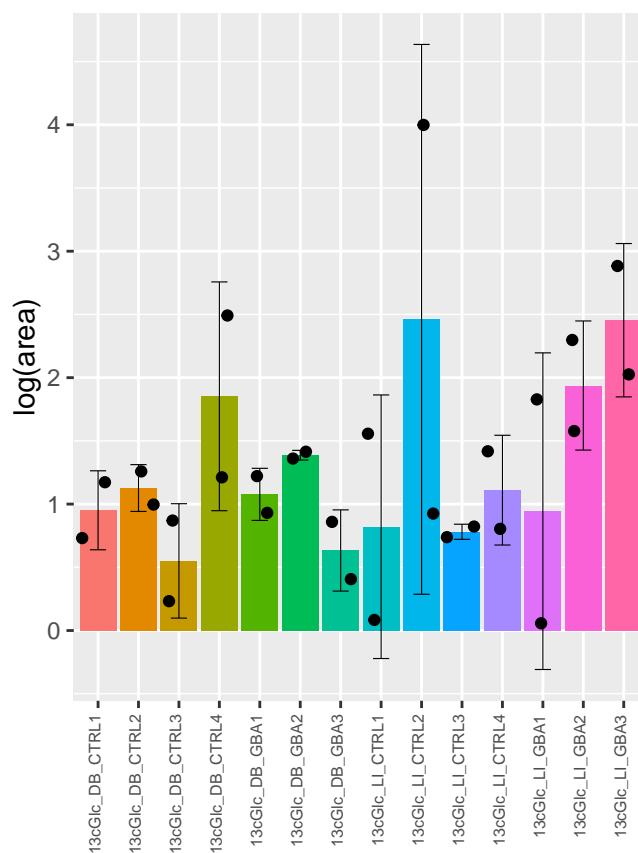
Cytidine

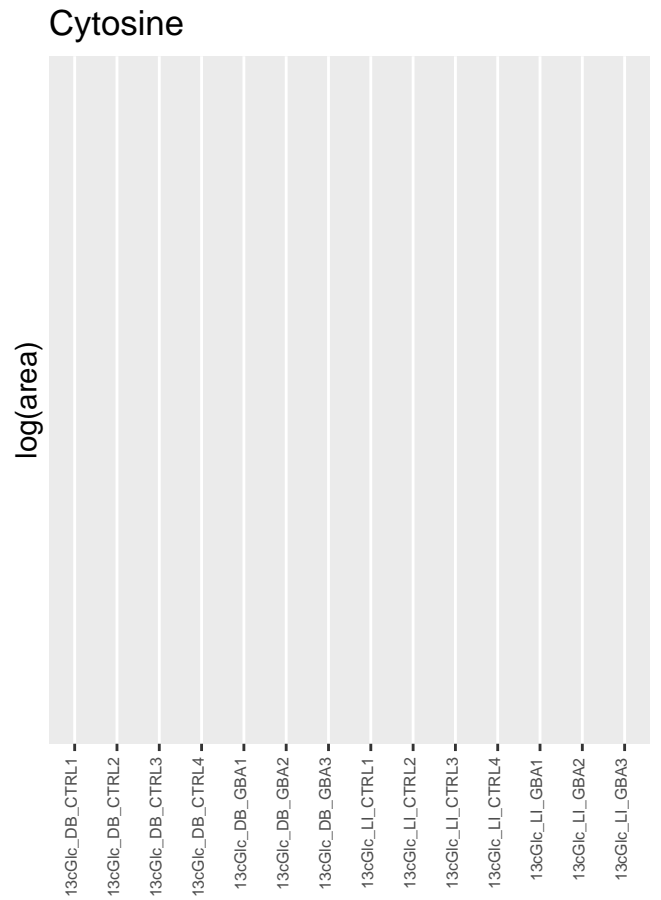
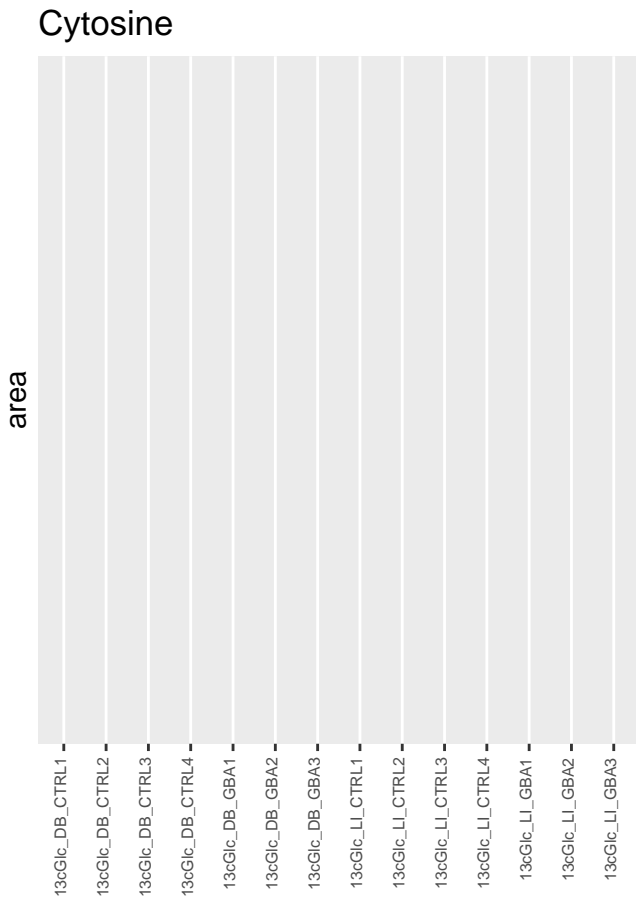
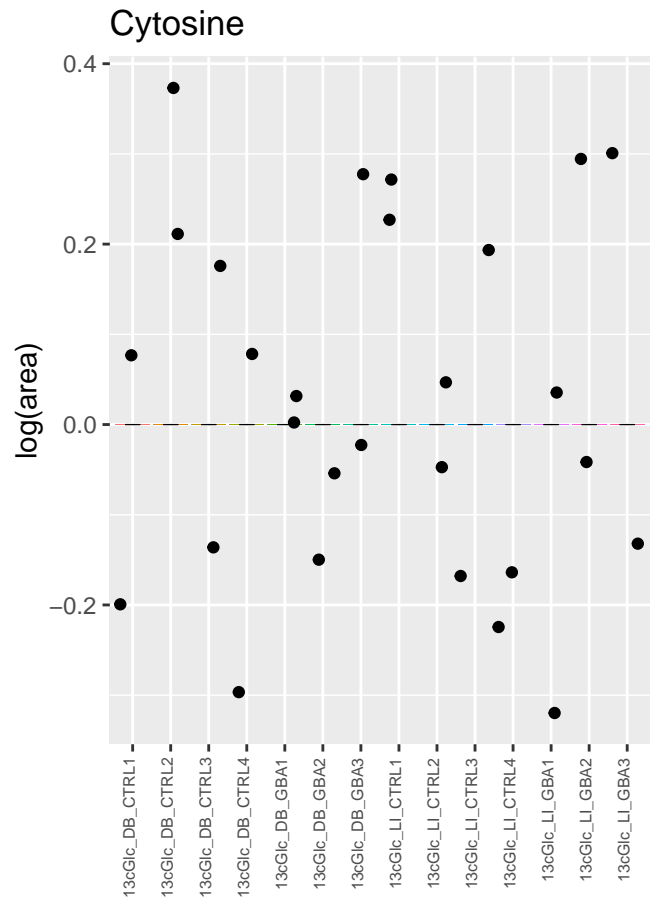
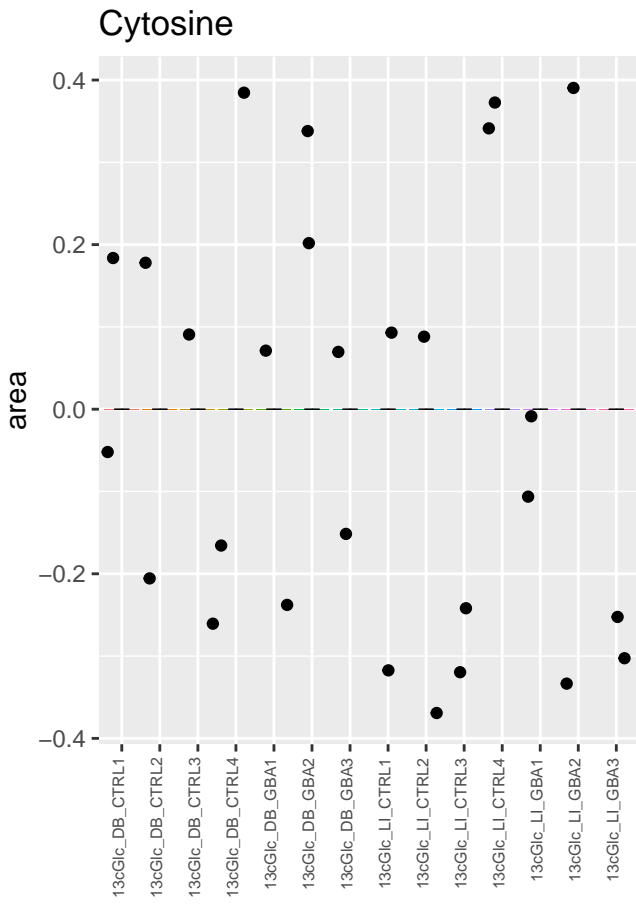


Cytidine

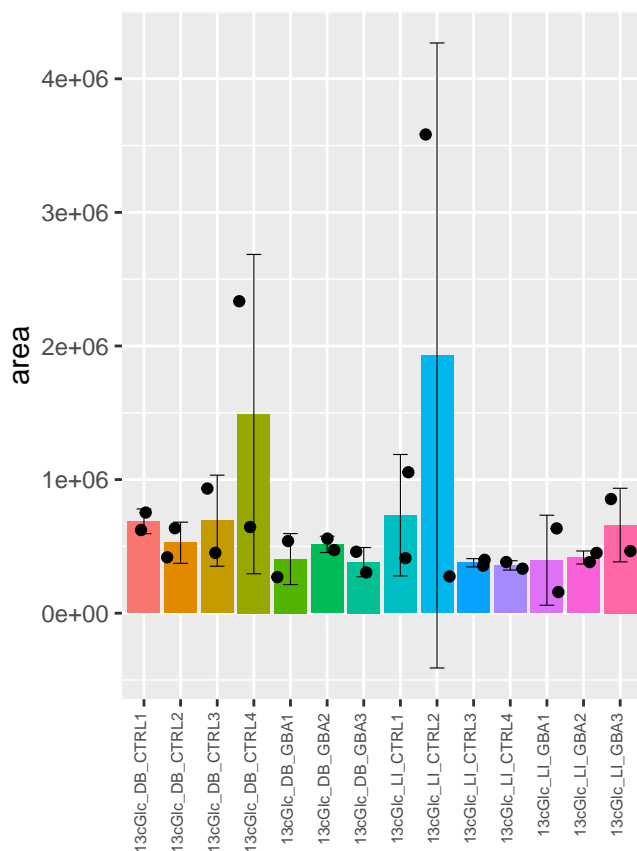


Cytidine

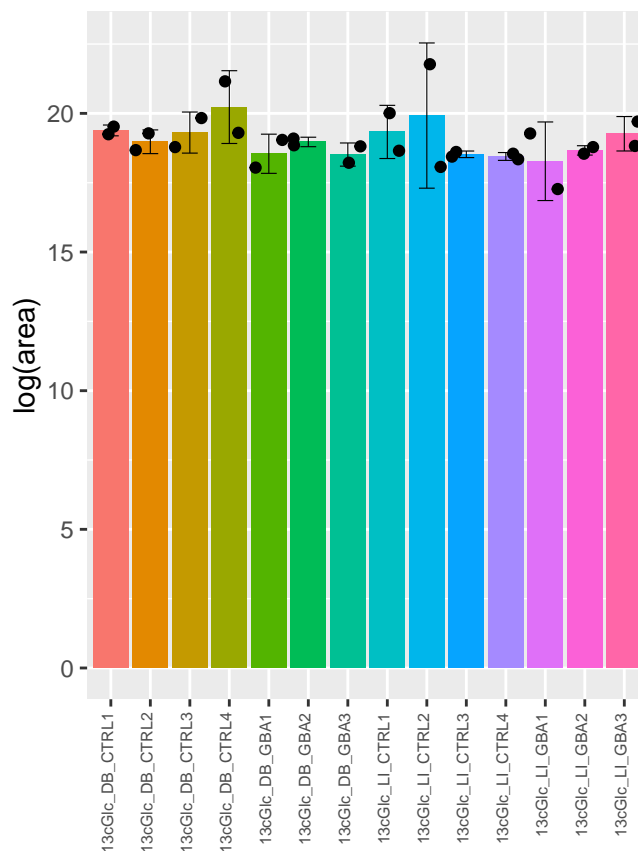




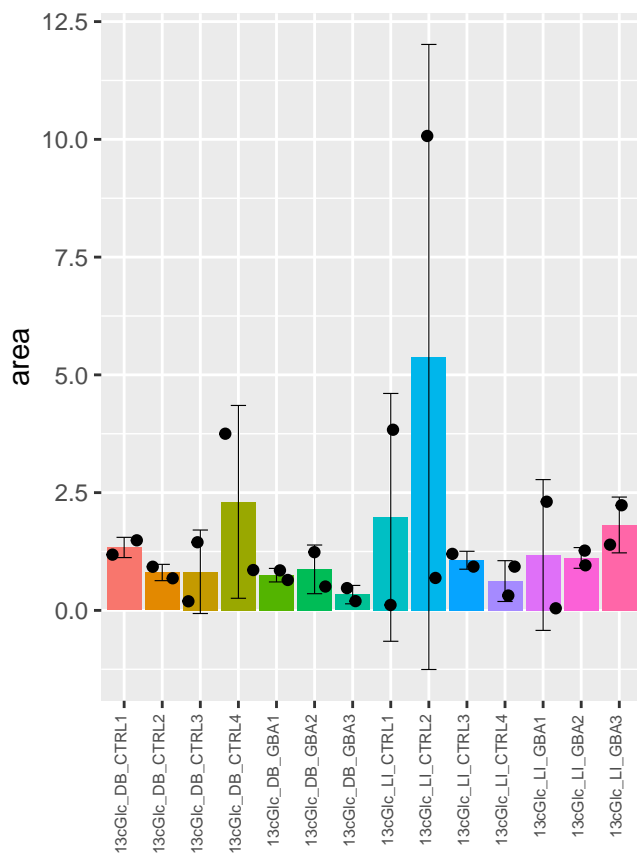
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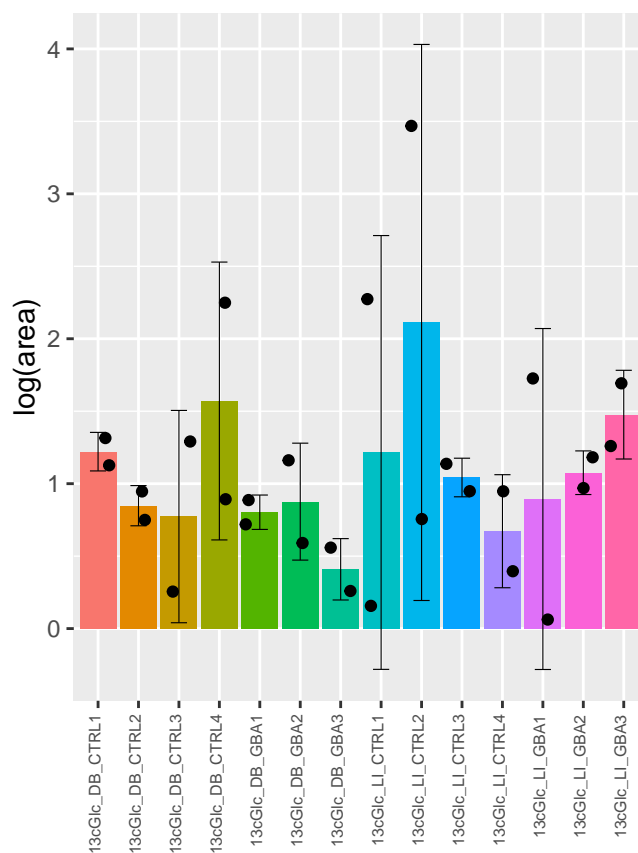
Fructose 6-phosphate



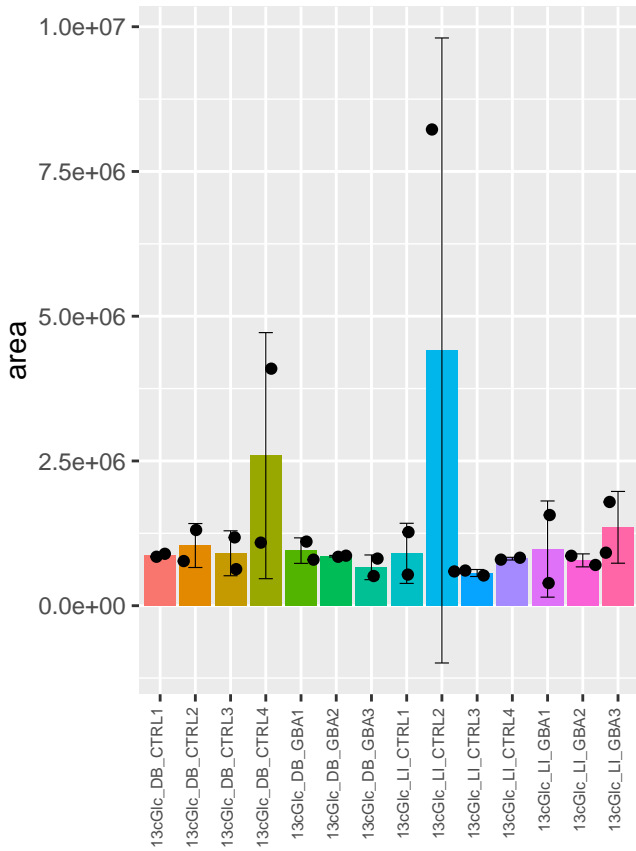
Fructose 6-phosphate



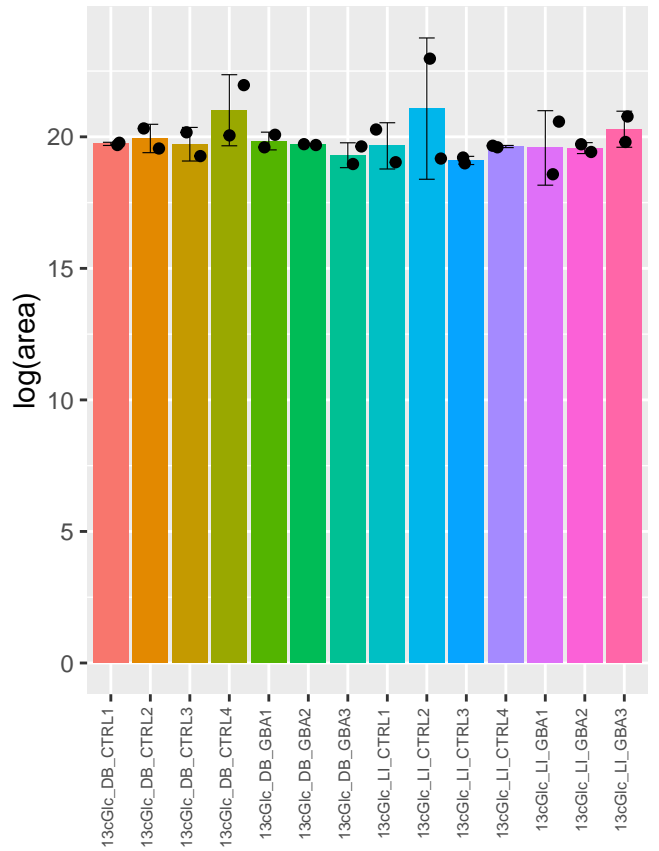
Fructose 6-phosphate



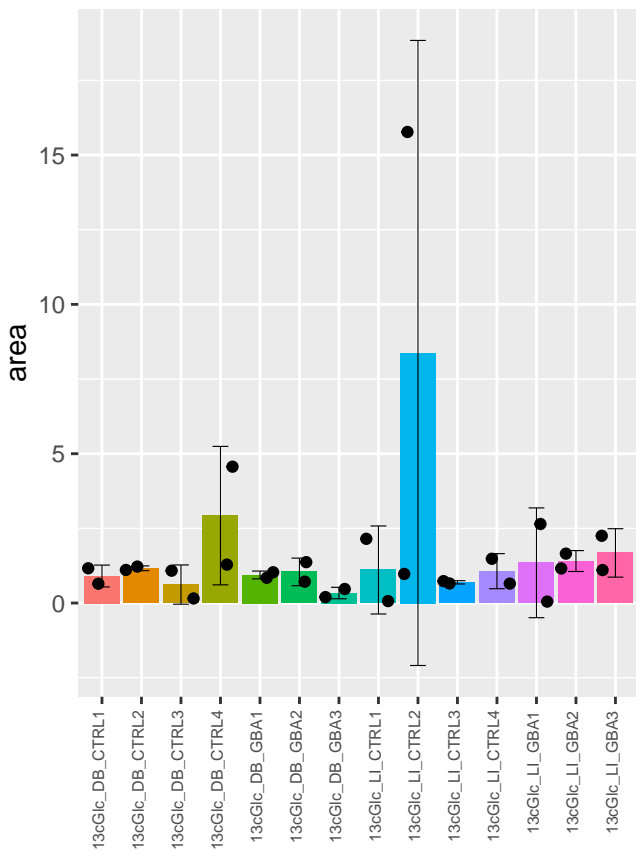
Fumarate



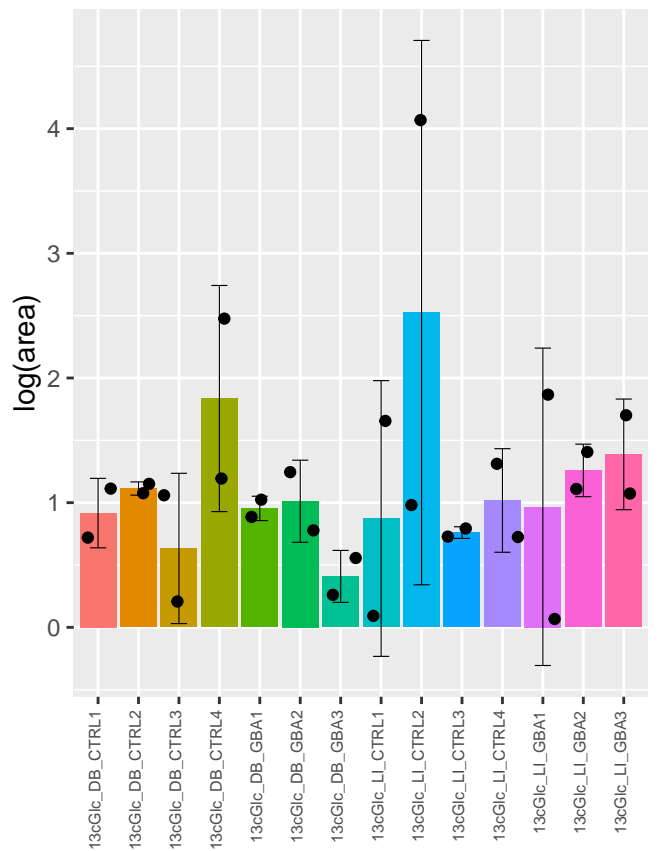
Fumarate



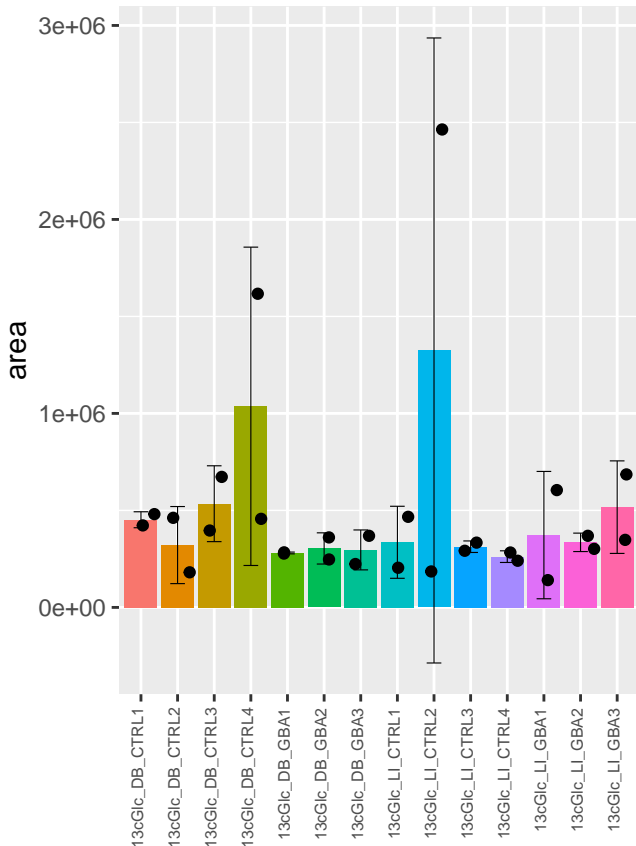
Fumarate



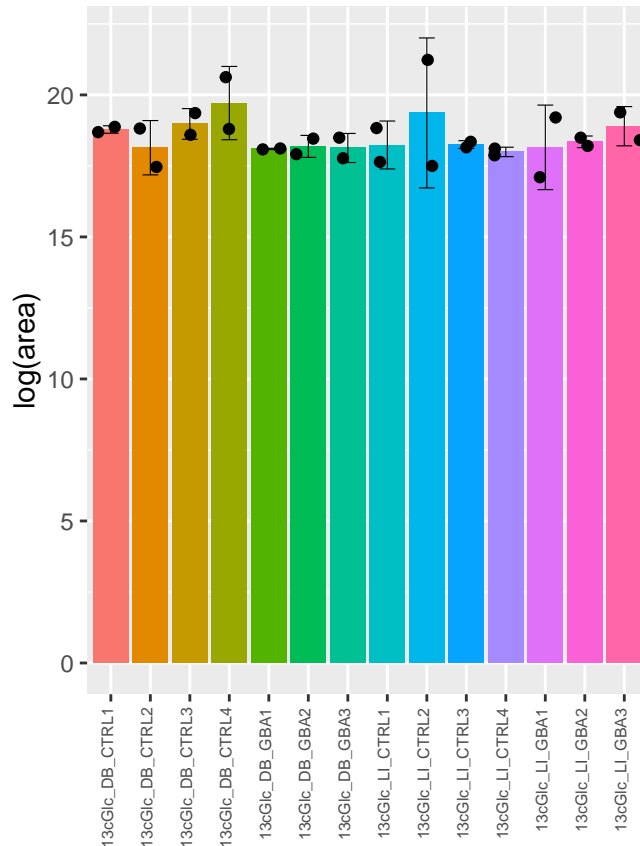
Fumarate



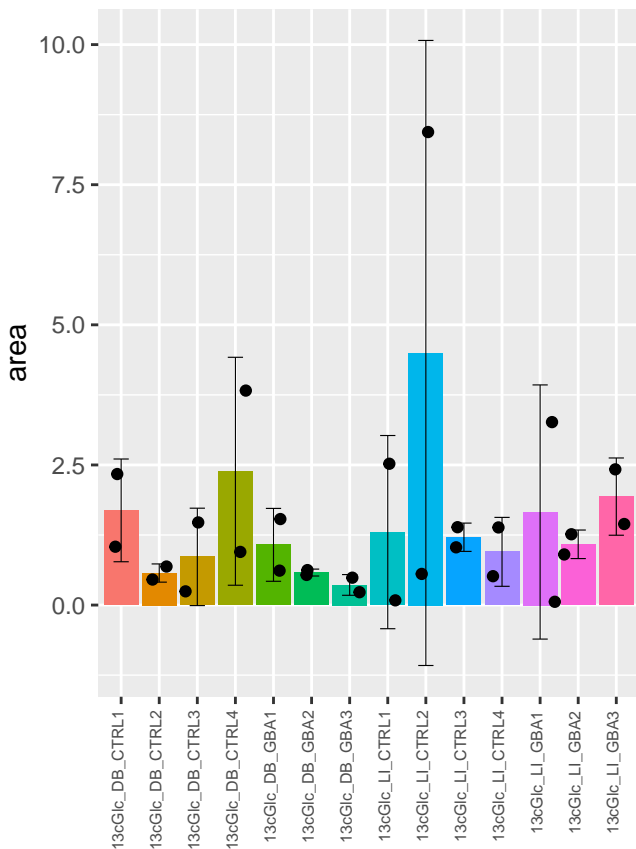
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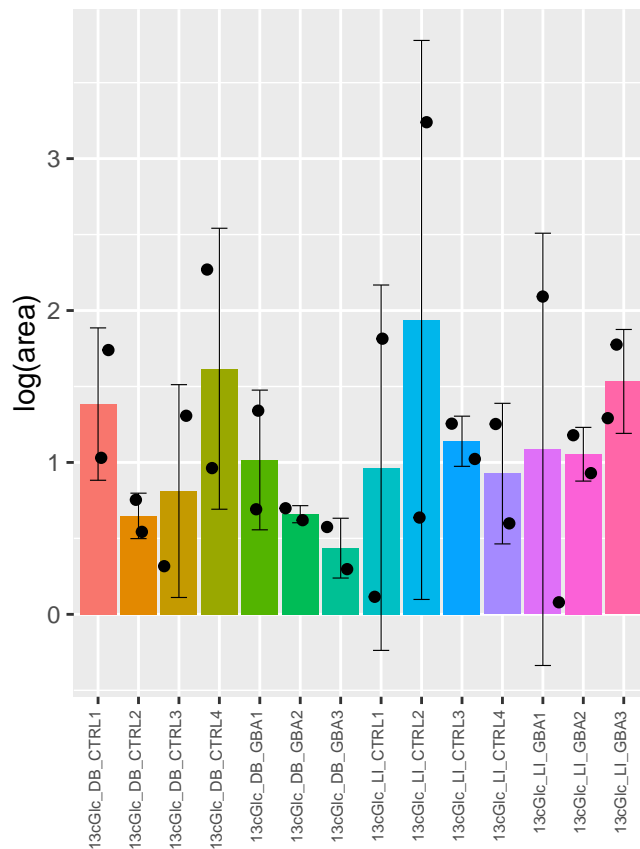
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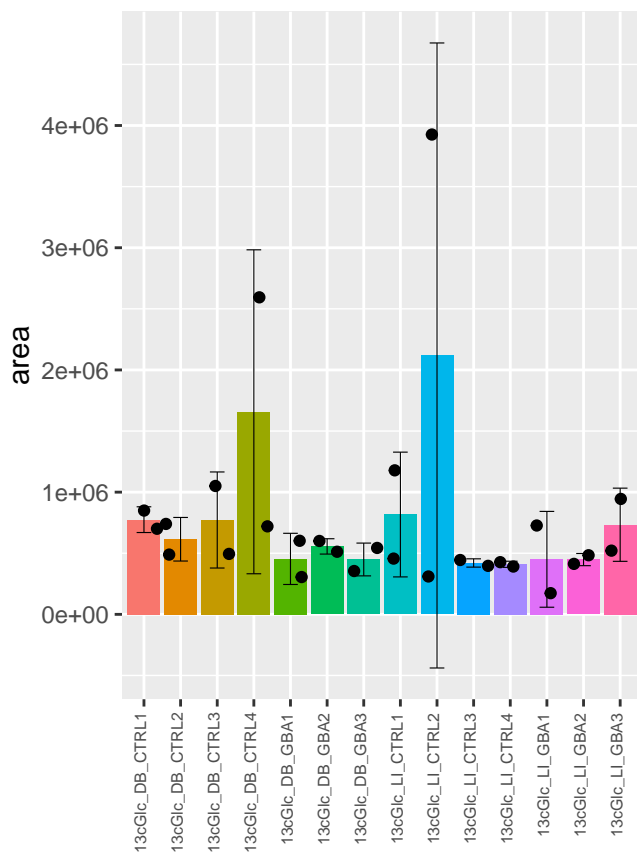
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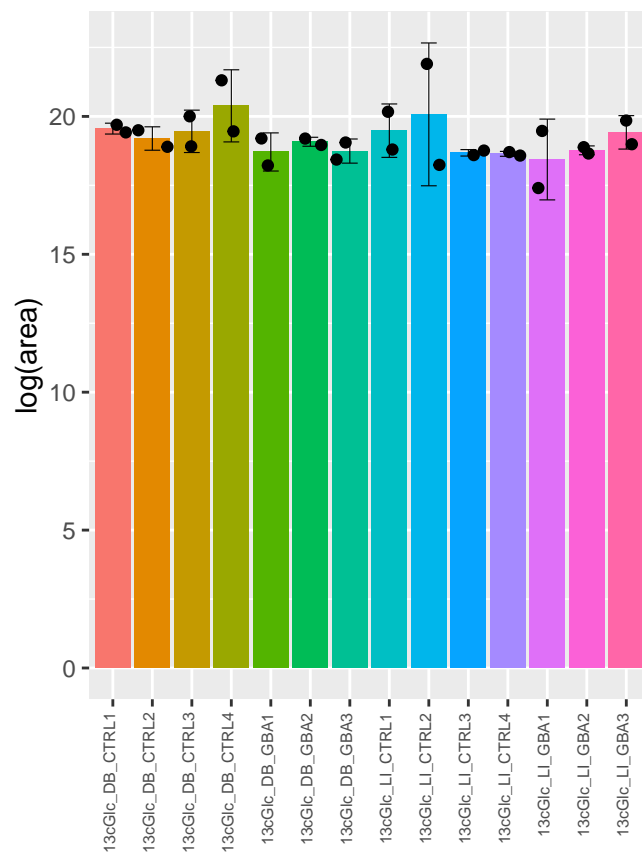
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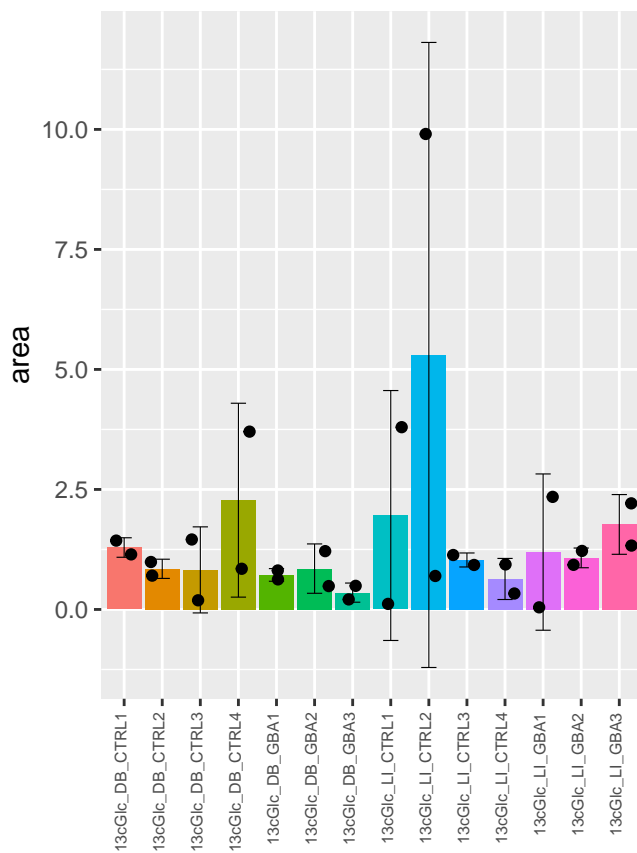
Galactose 1-phosphate



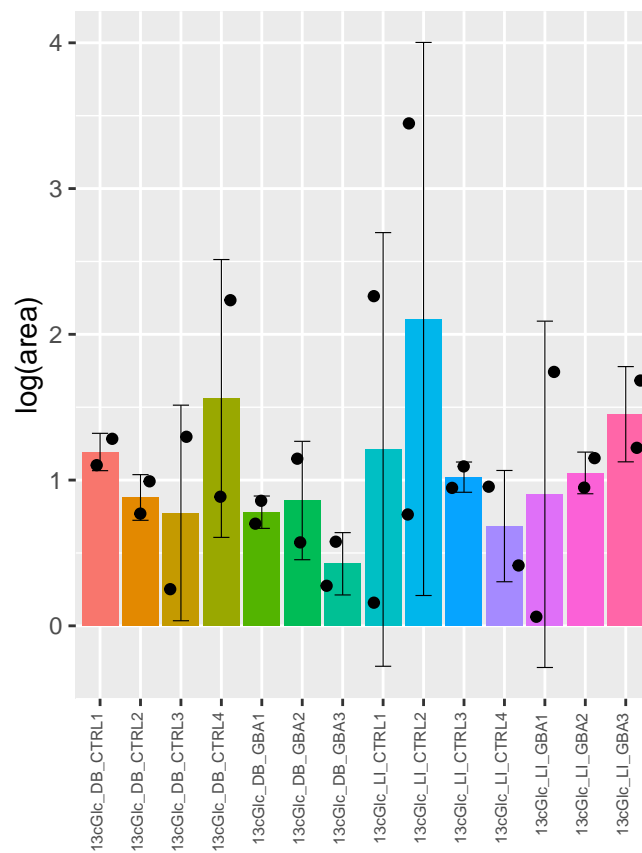
Galactose 1-phosphate



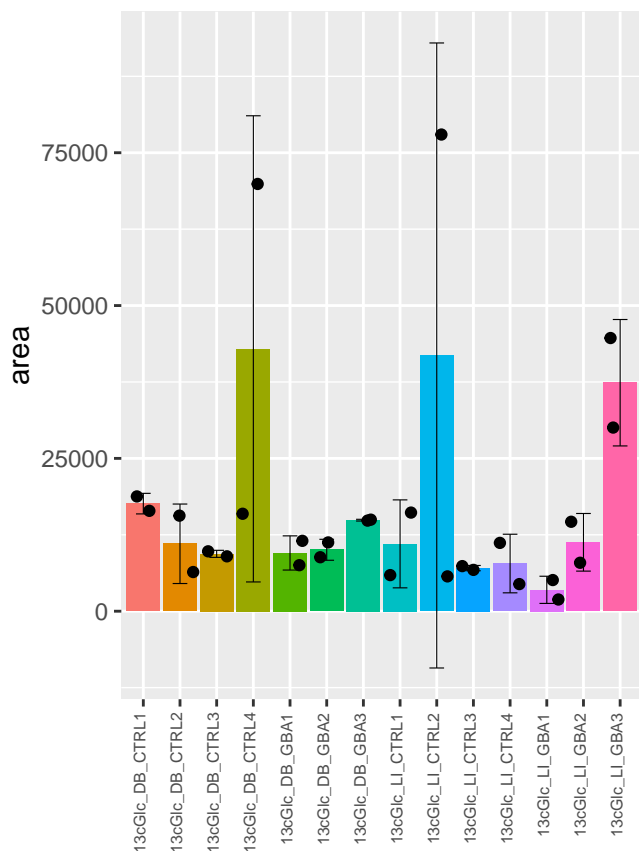
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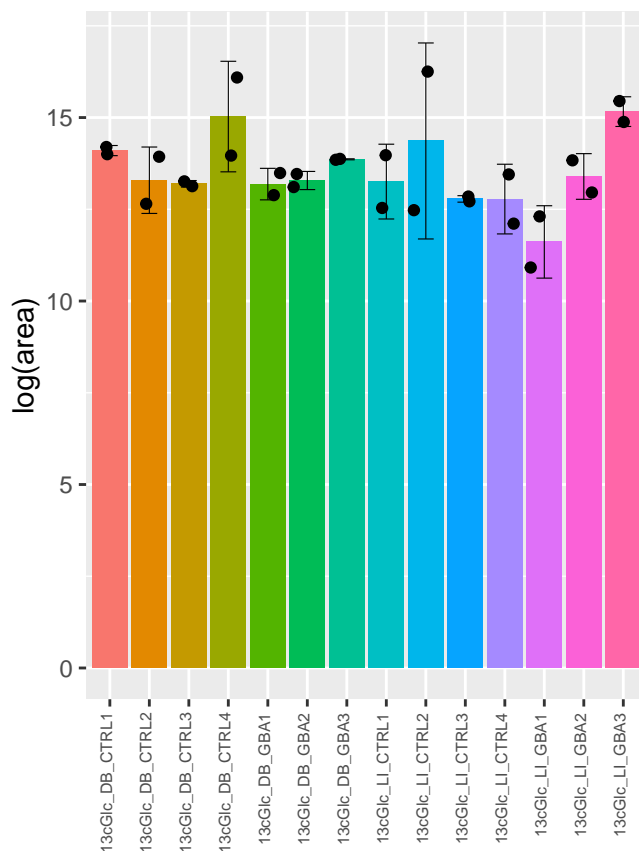
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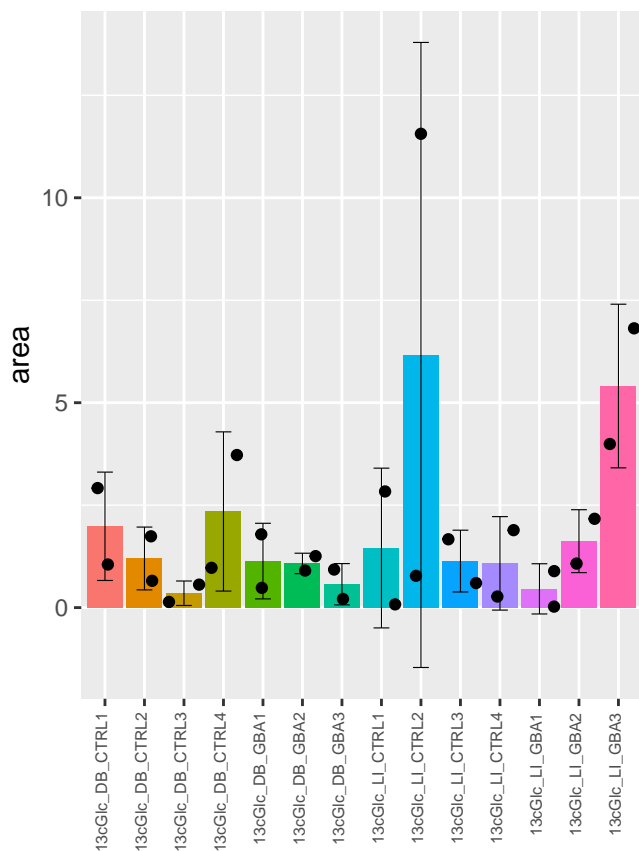
Gamma-glutamylcysteine



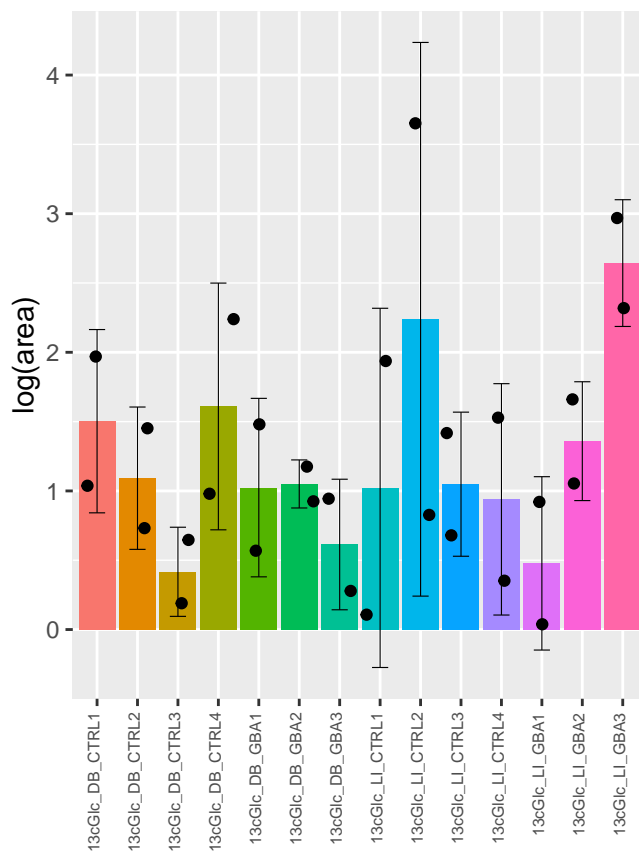
Gamma-glutamylcysteine

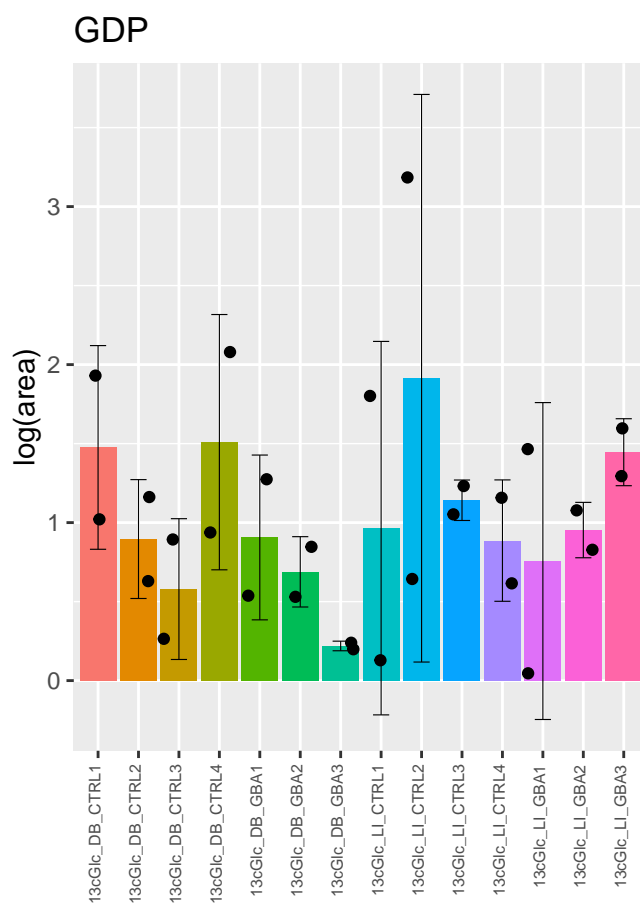
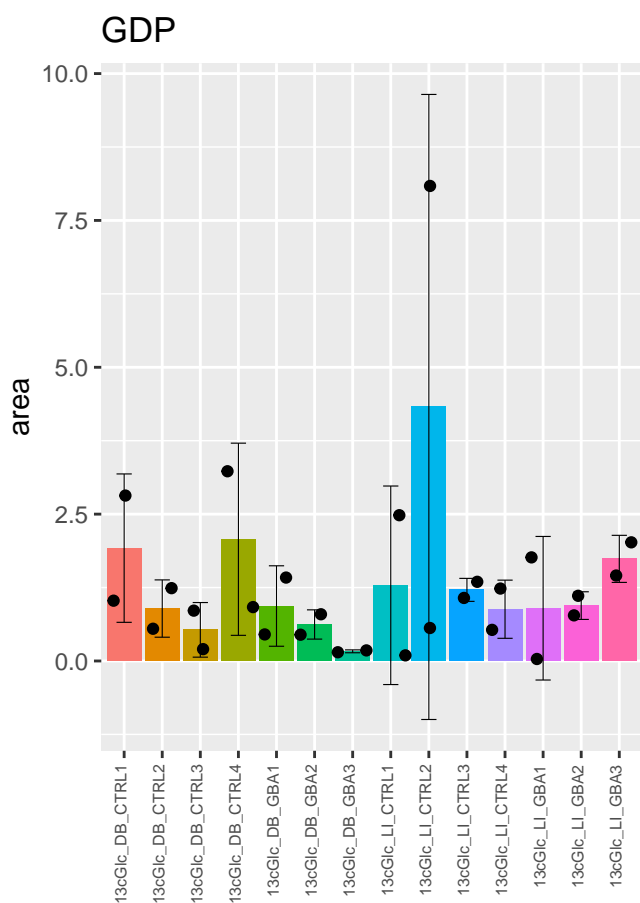
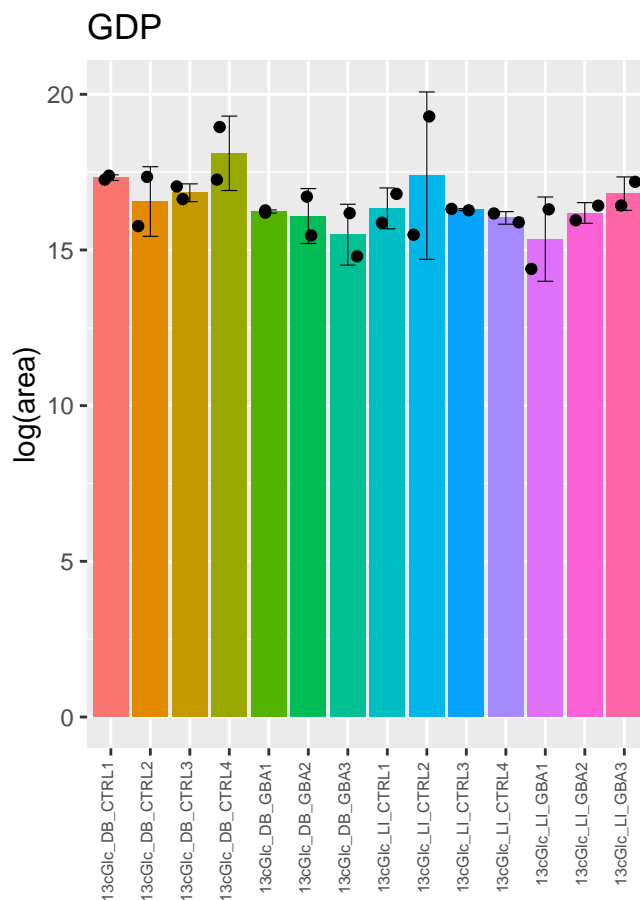
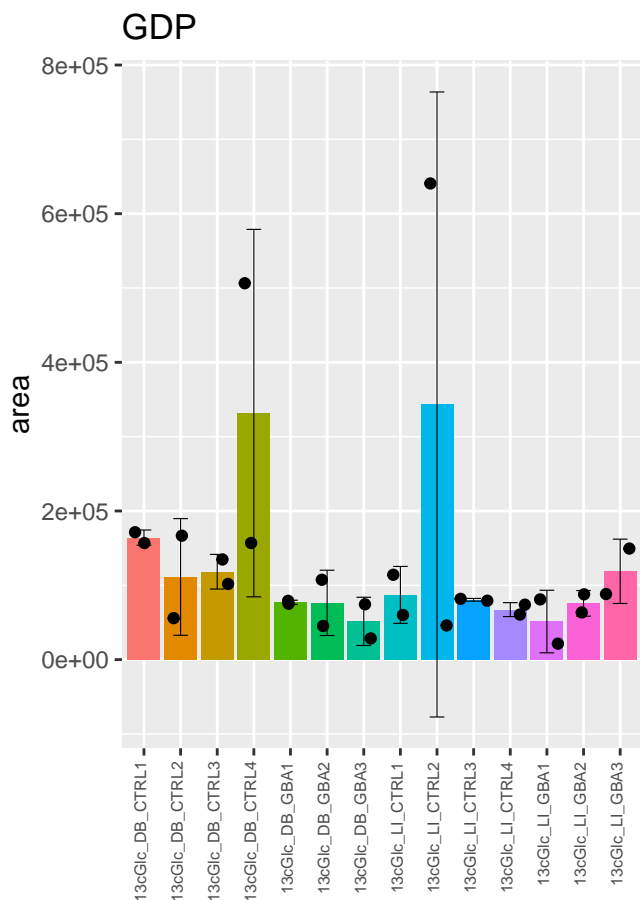


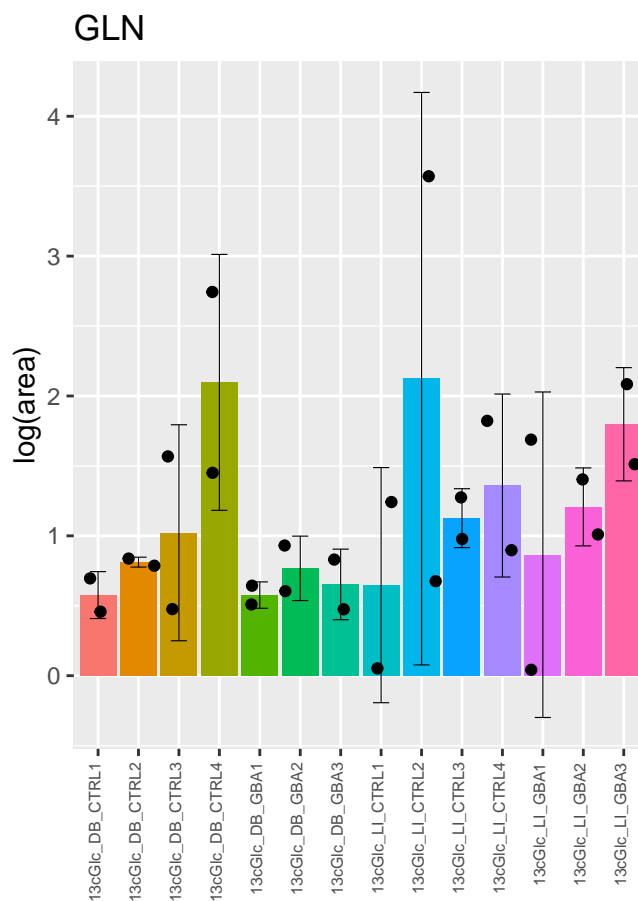
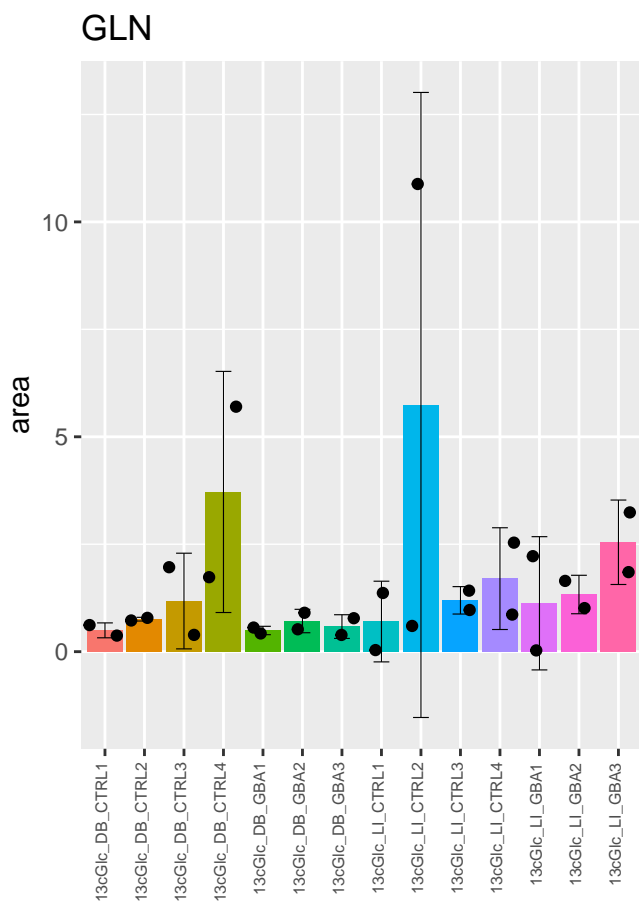
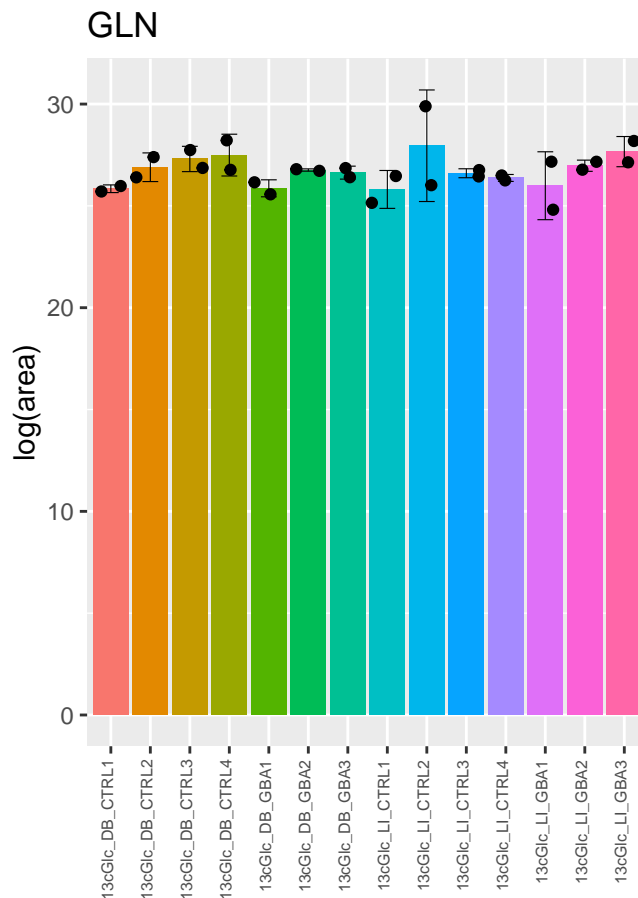
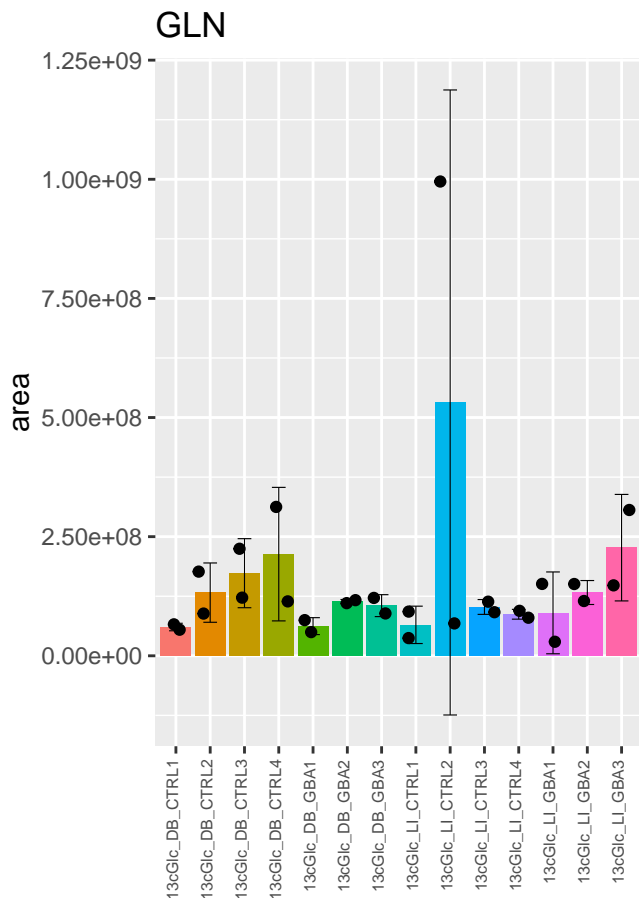
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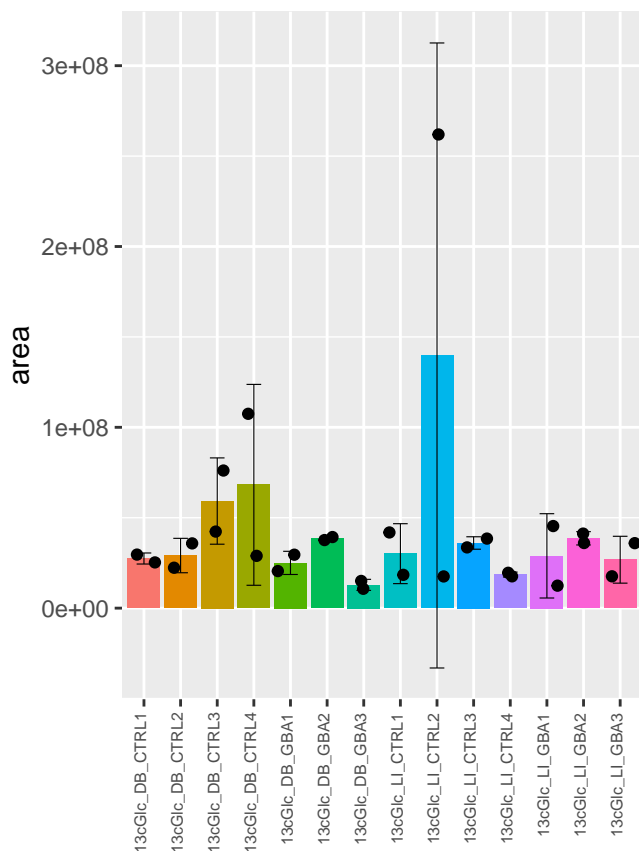
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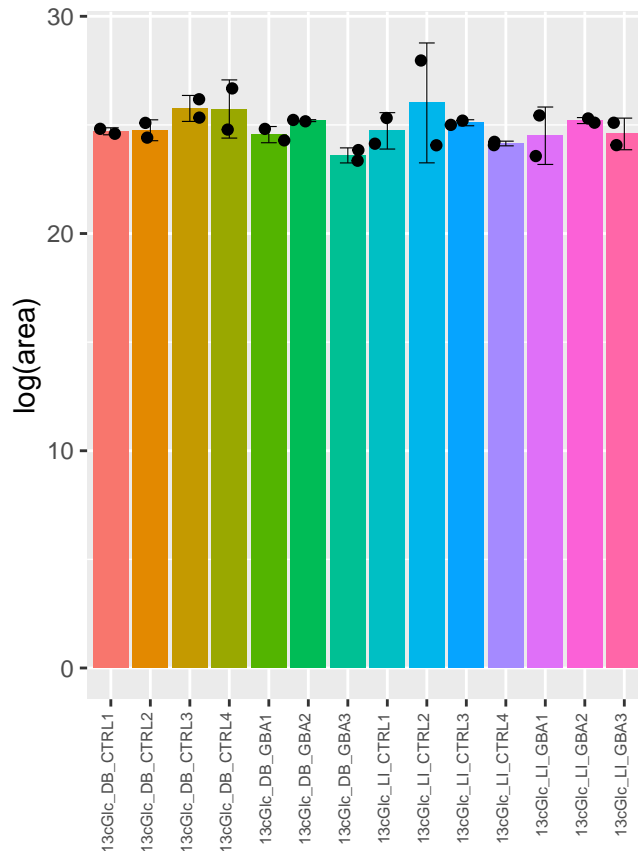




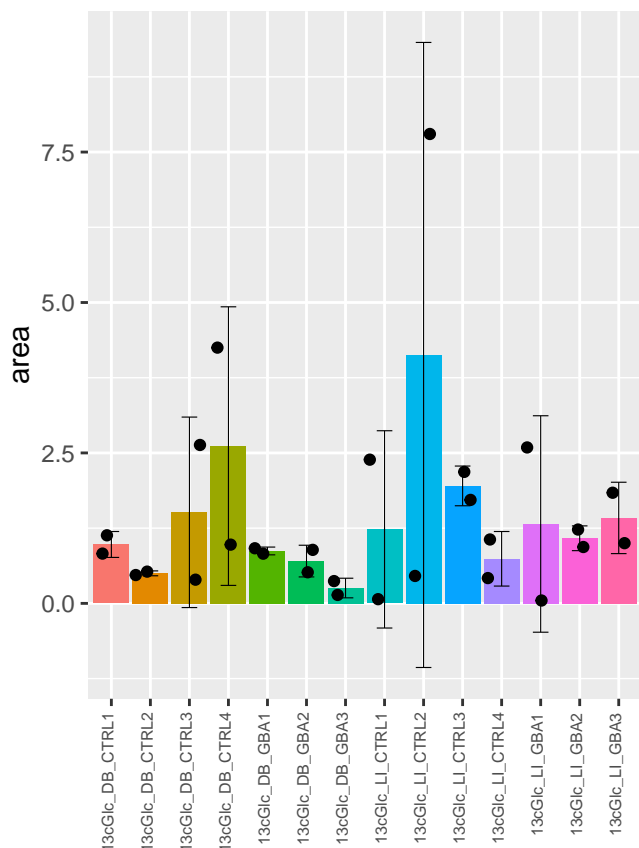
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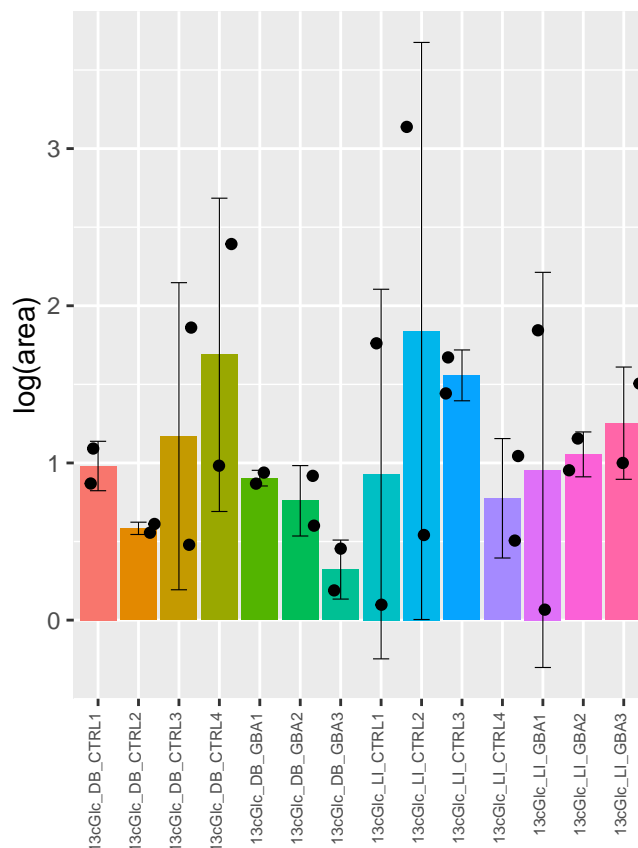
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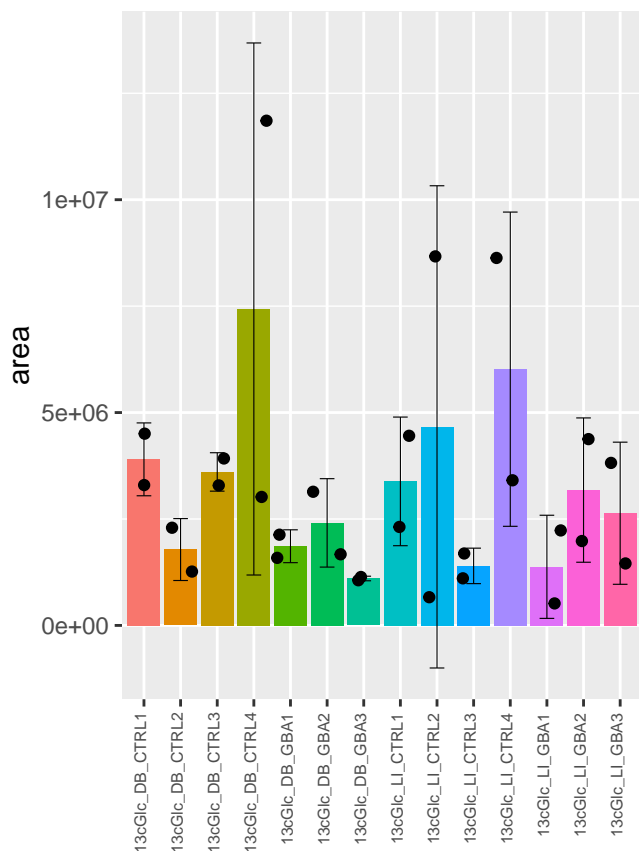
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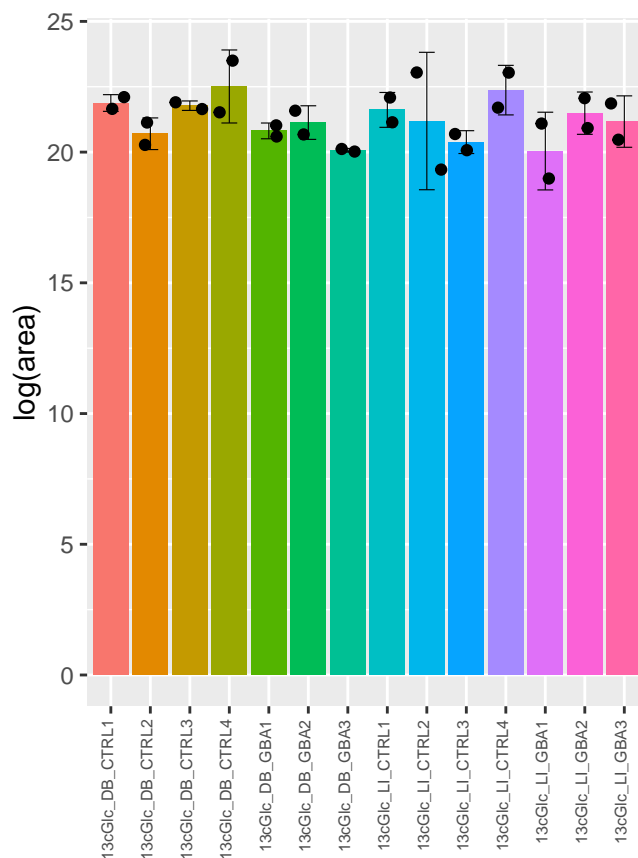
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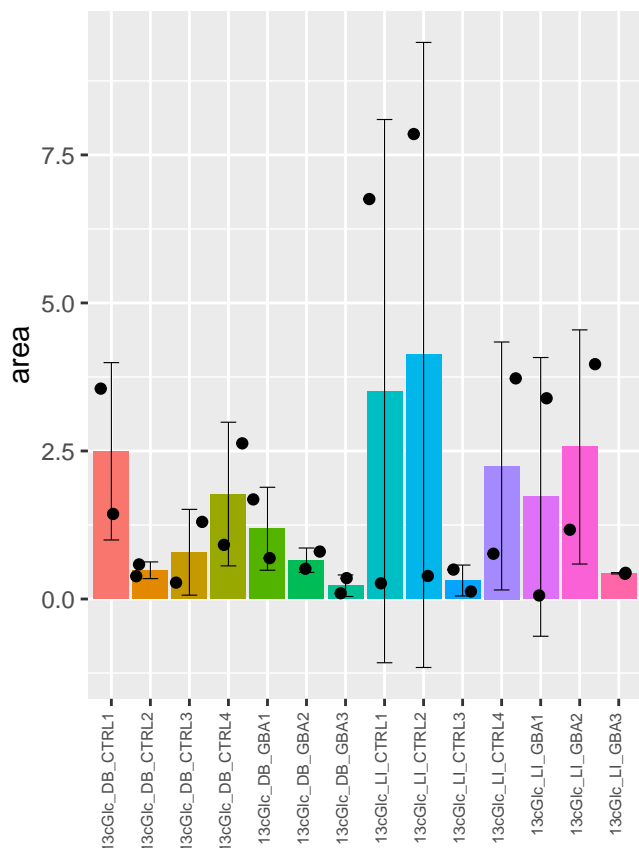
Glucose



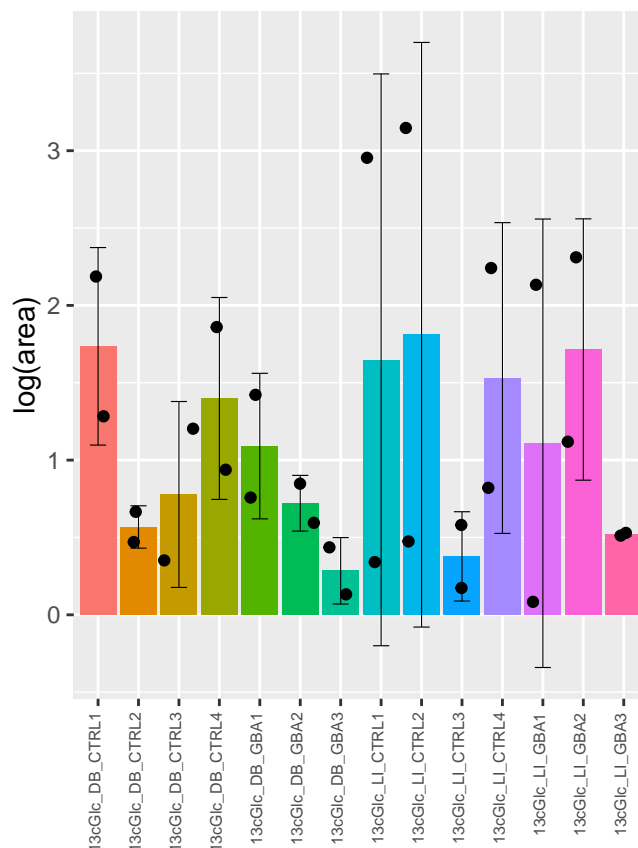
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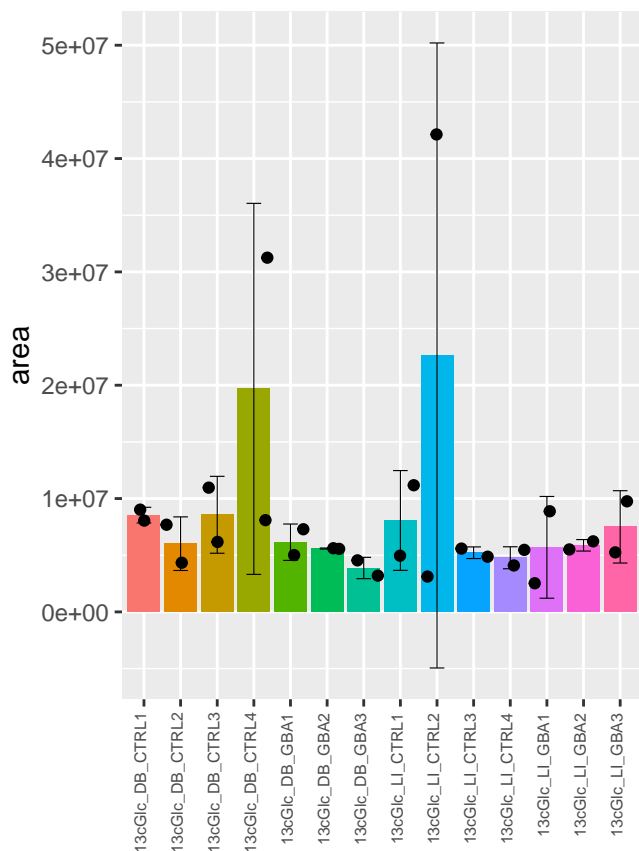
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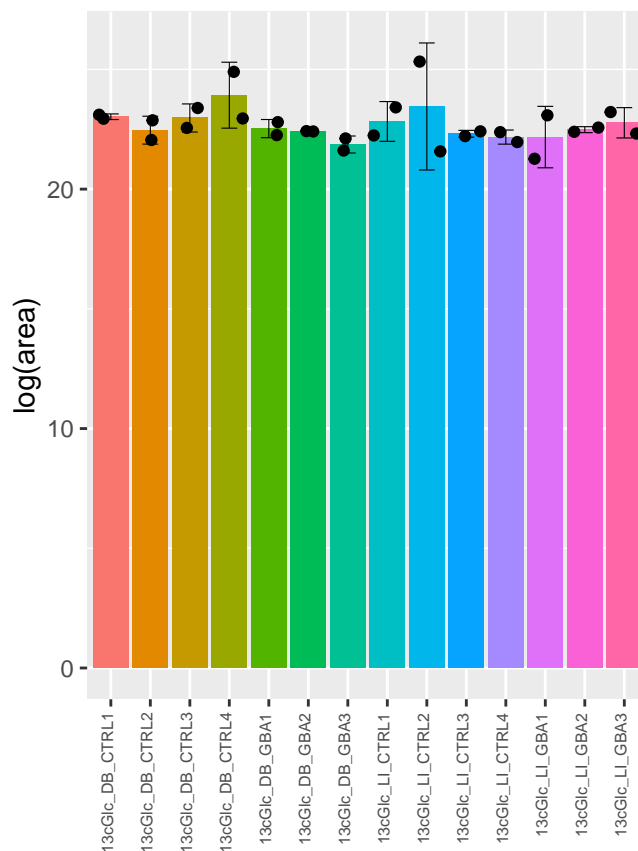
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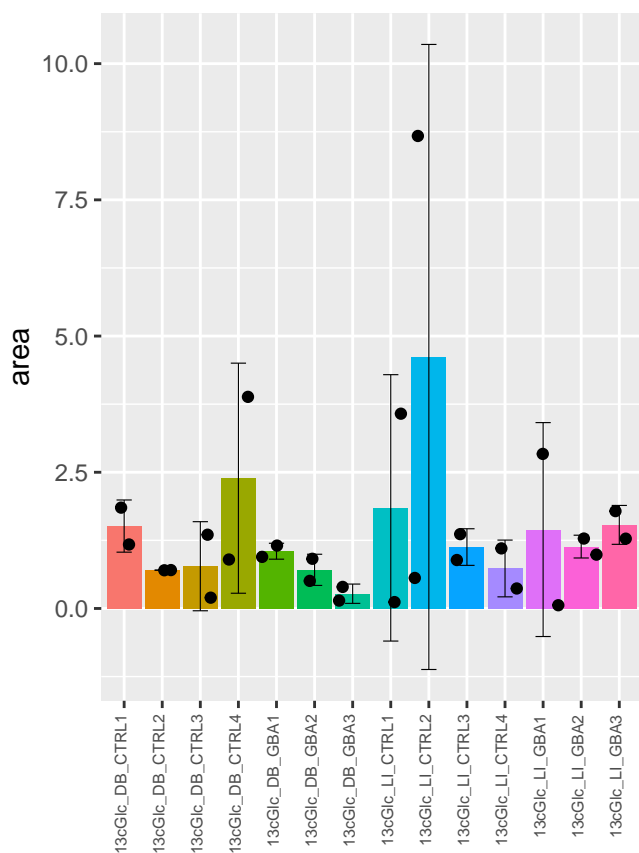
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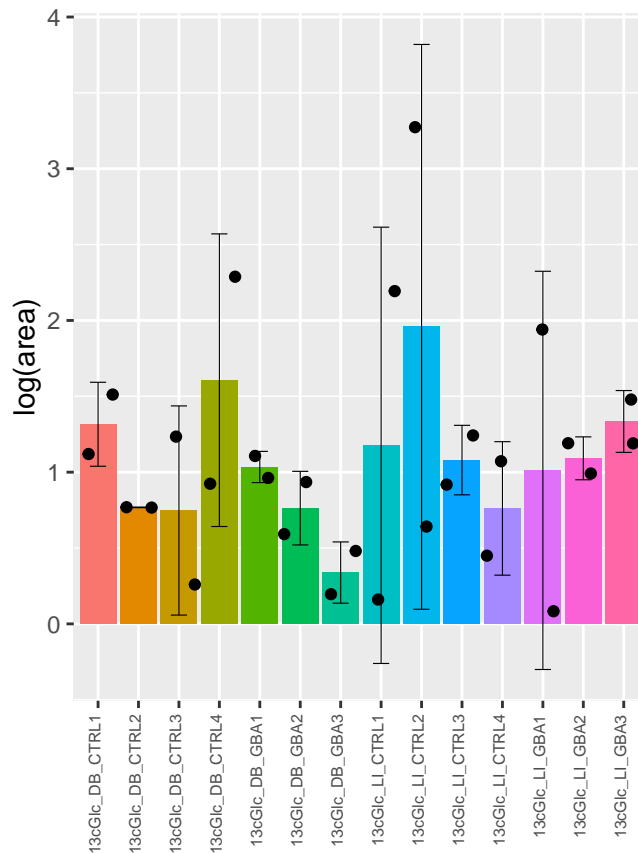
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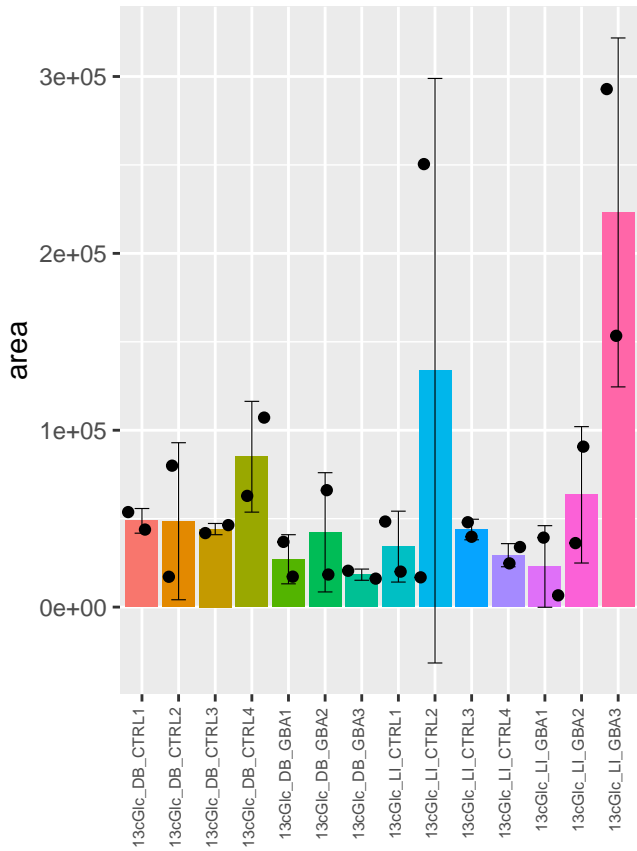
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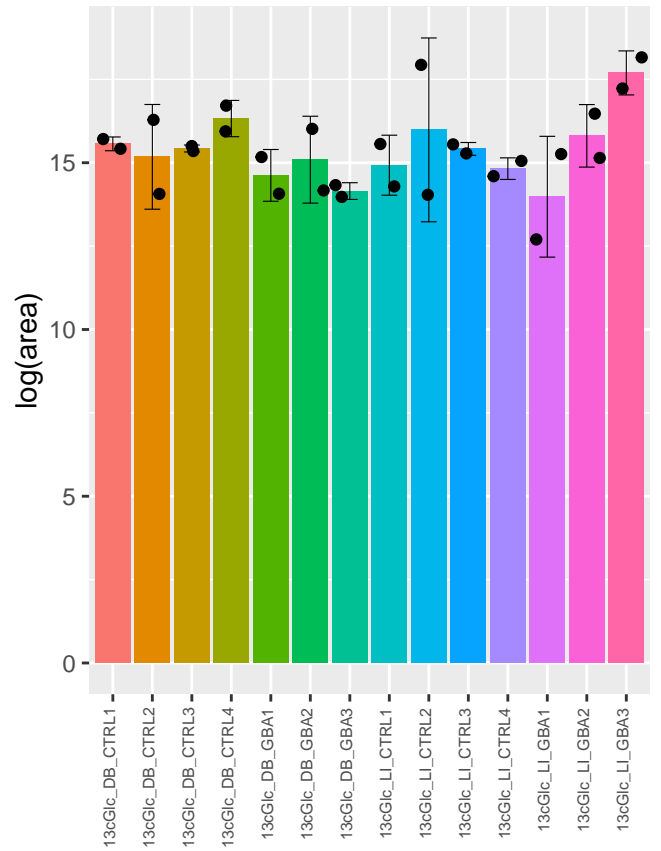
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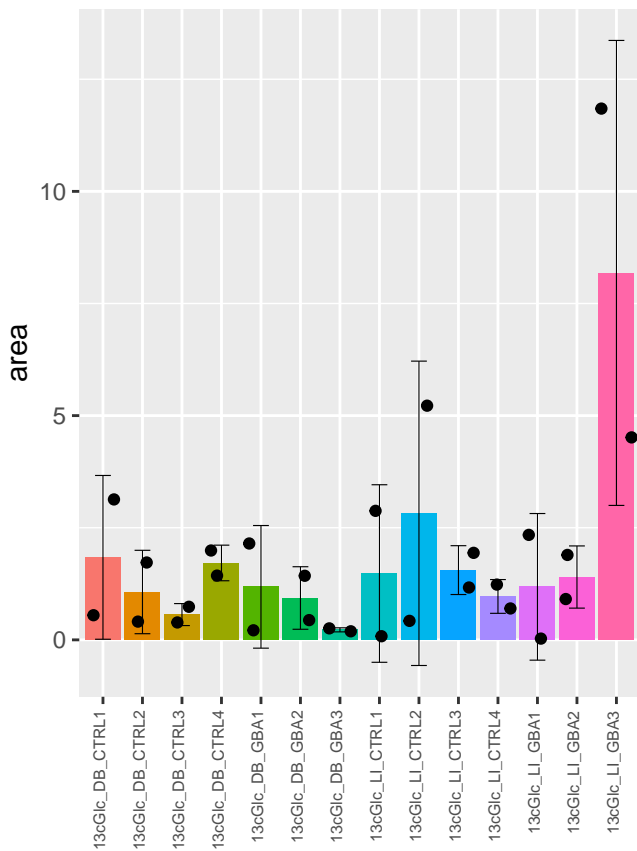
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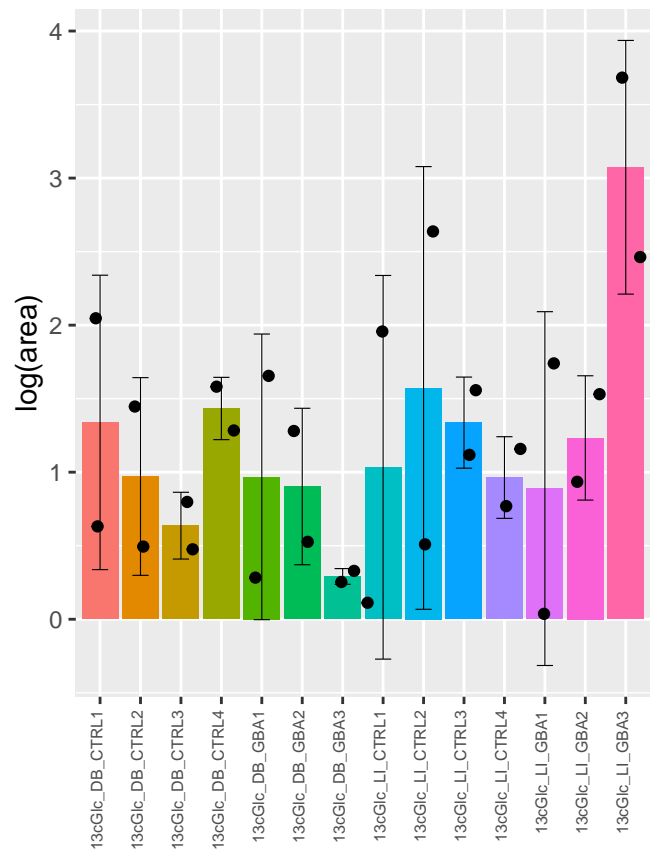
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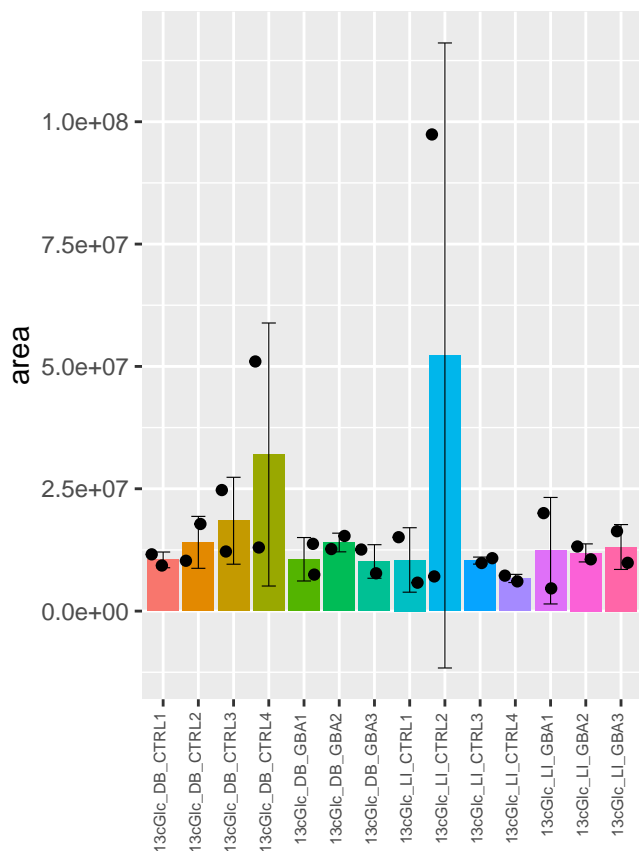
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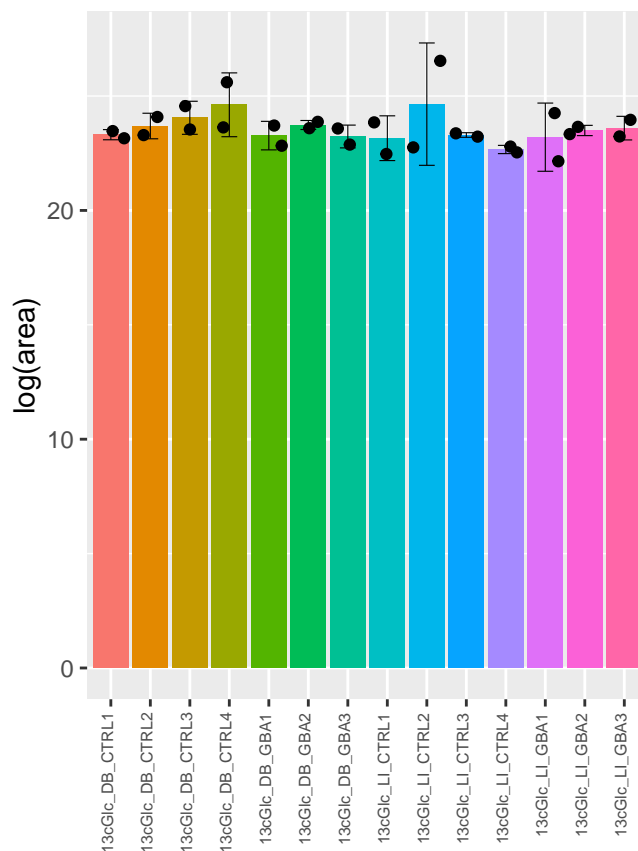
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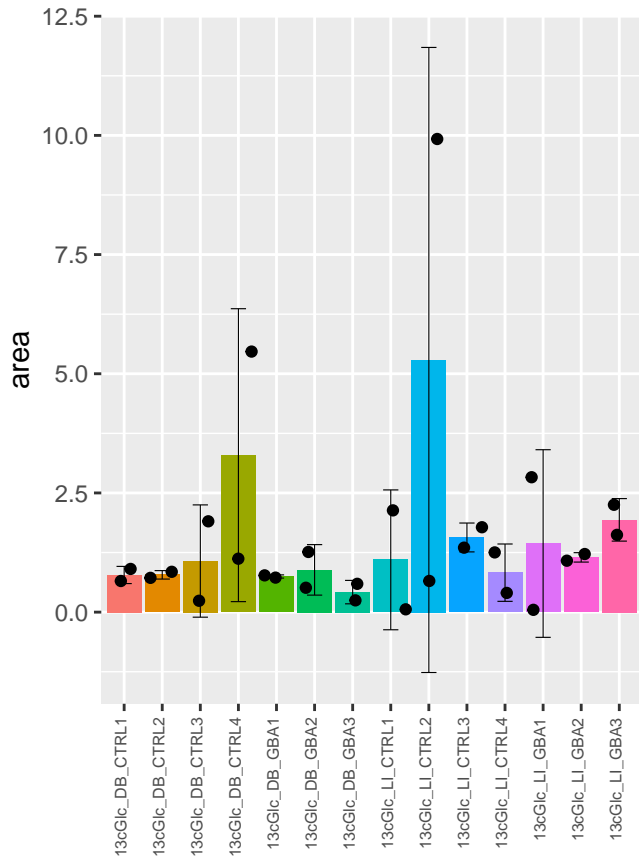
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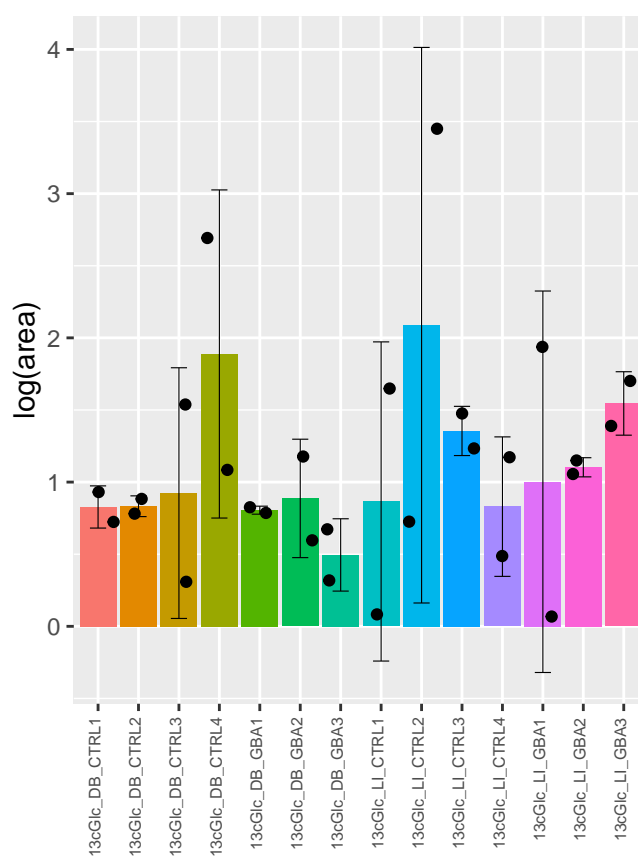
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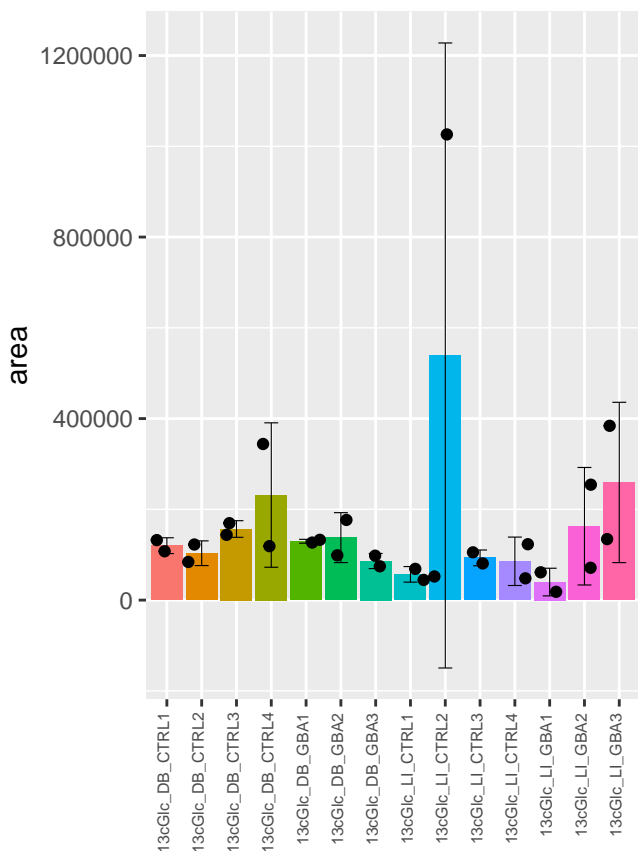
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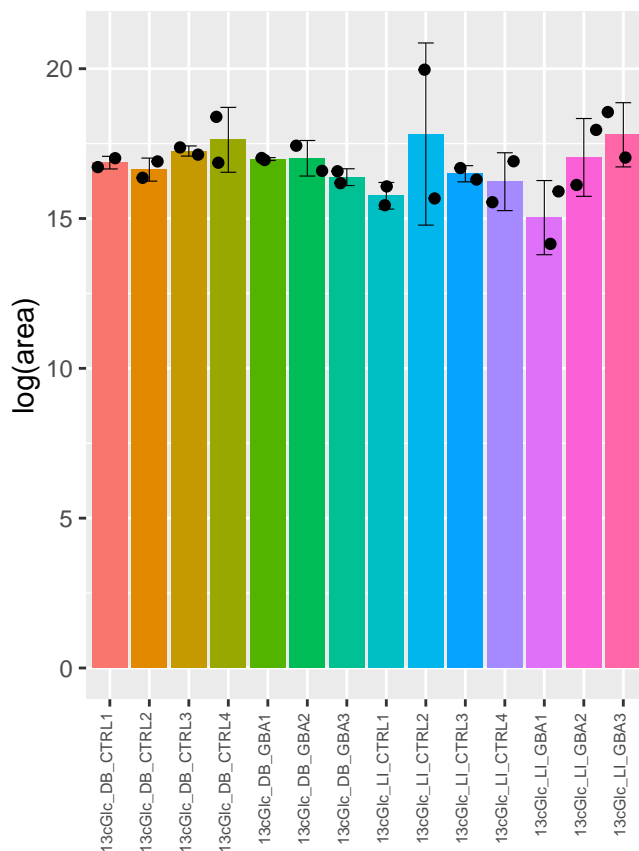
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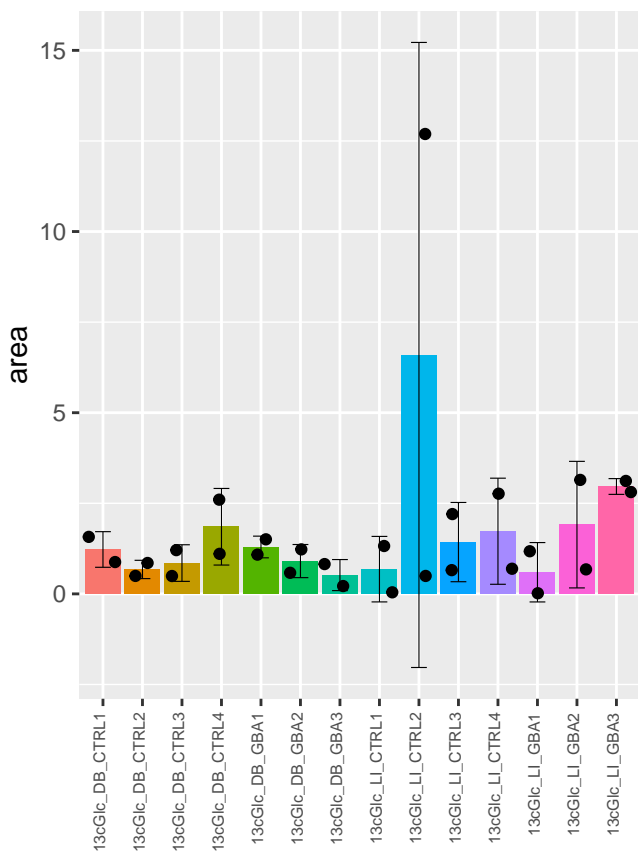
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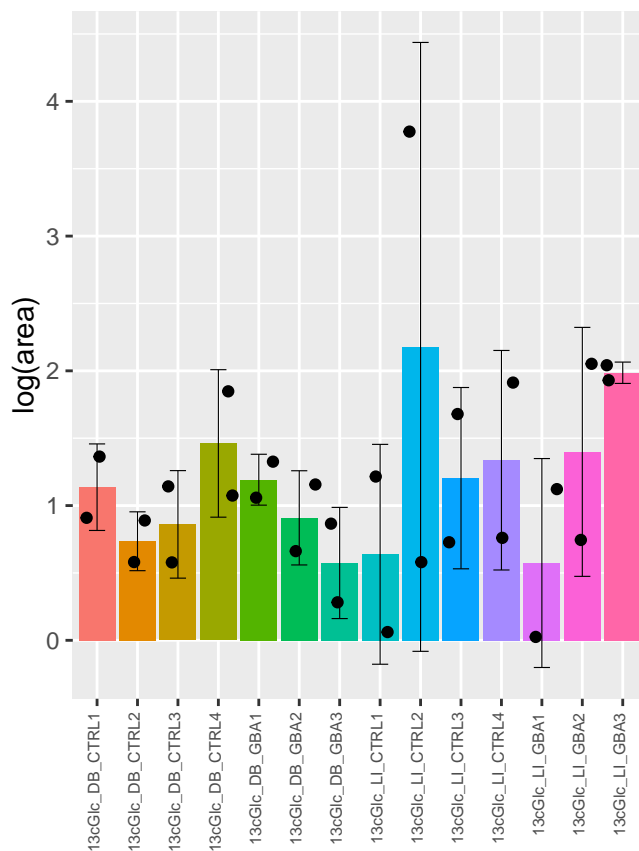
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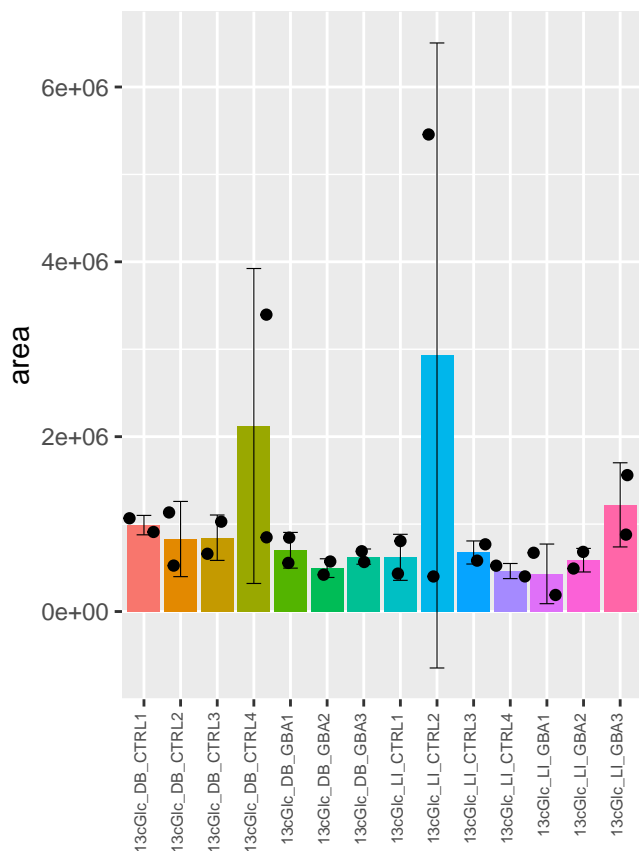
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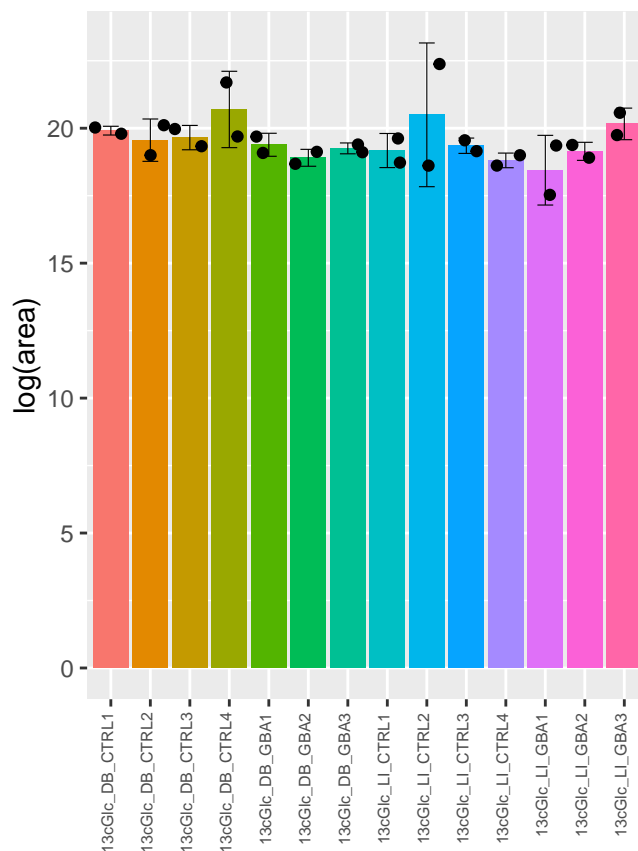
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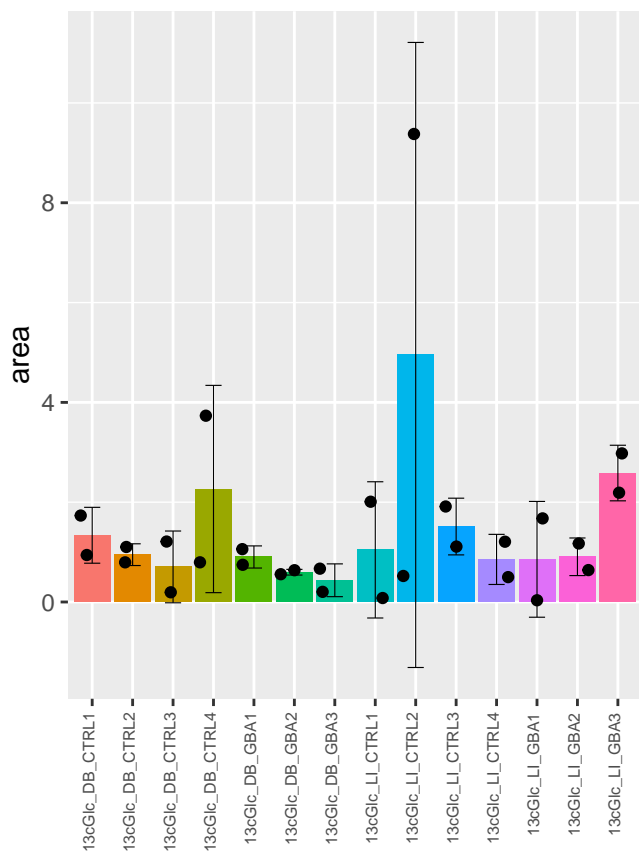
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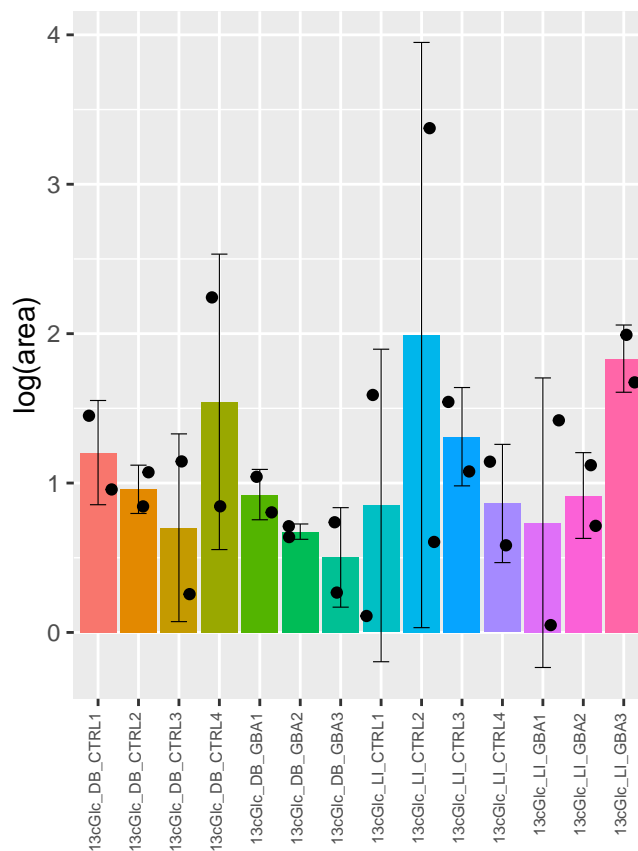
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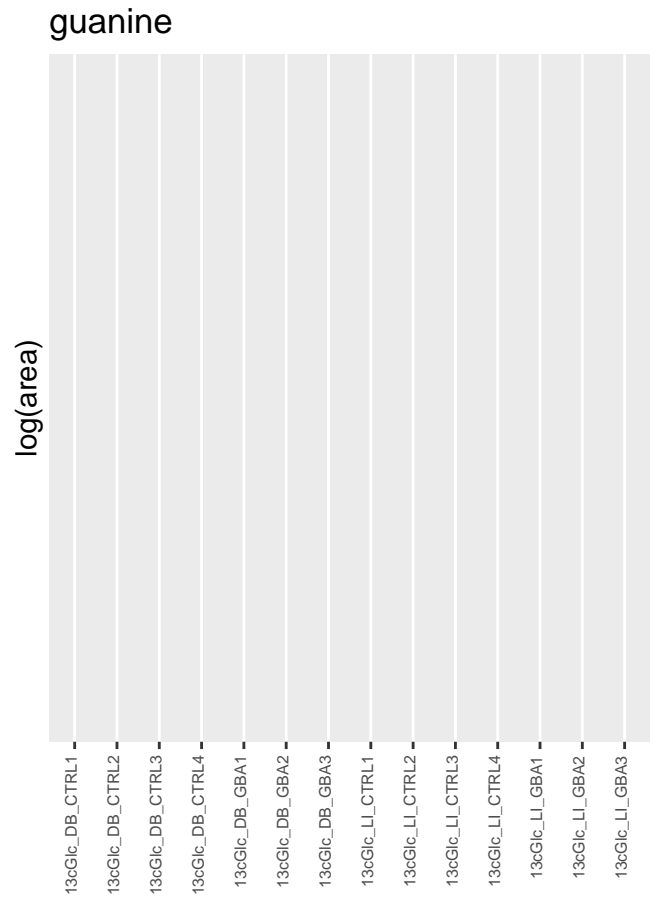
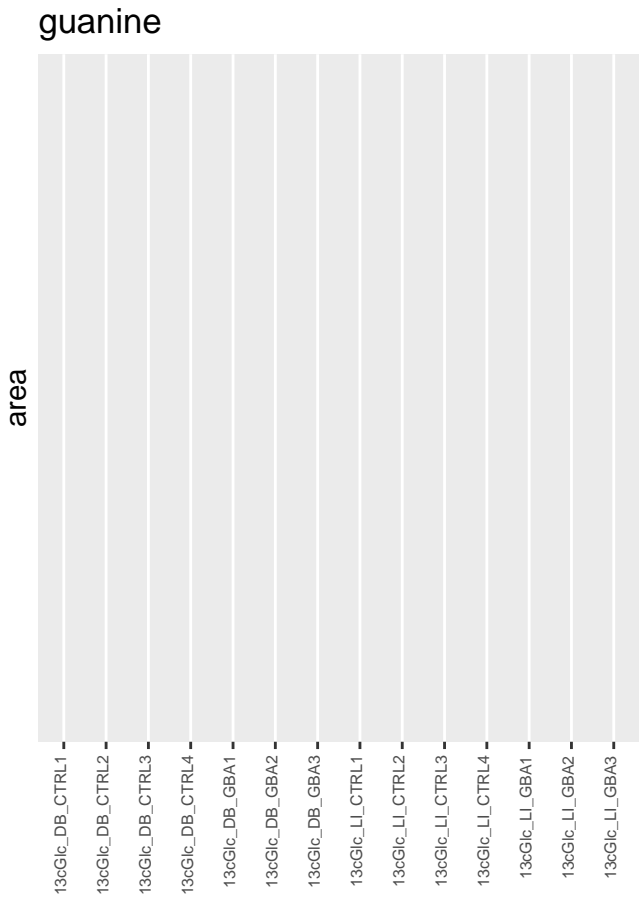
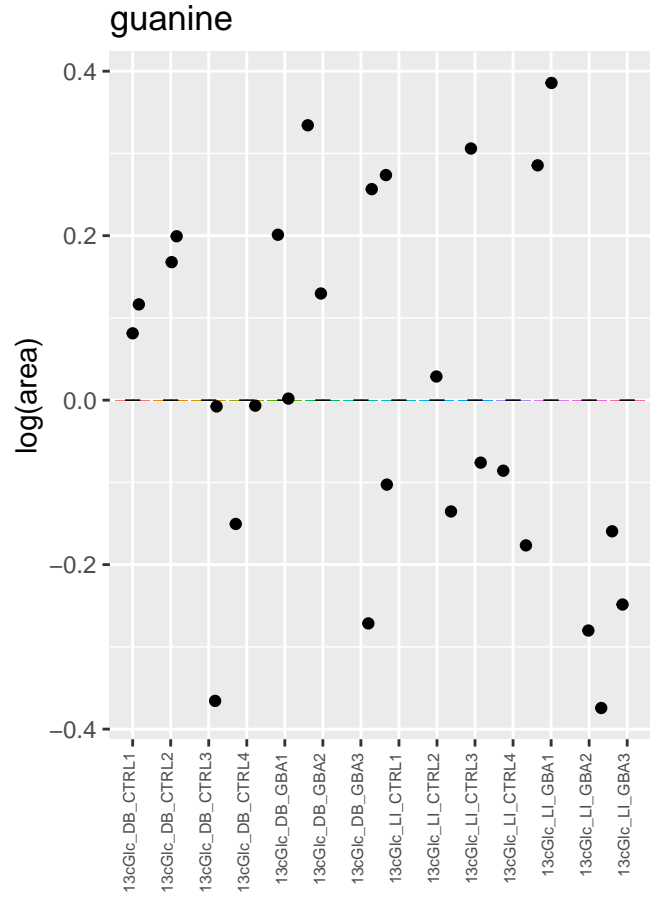
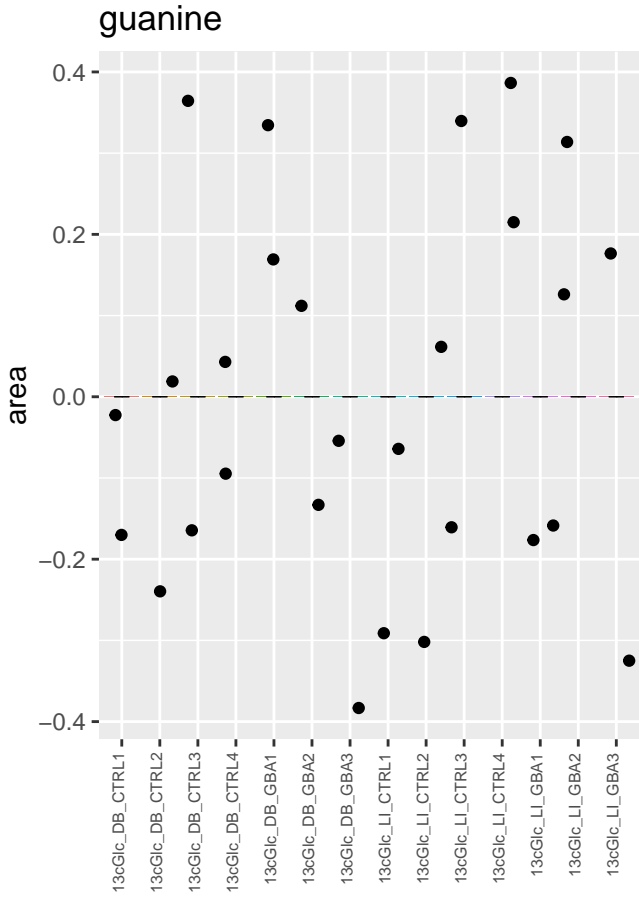


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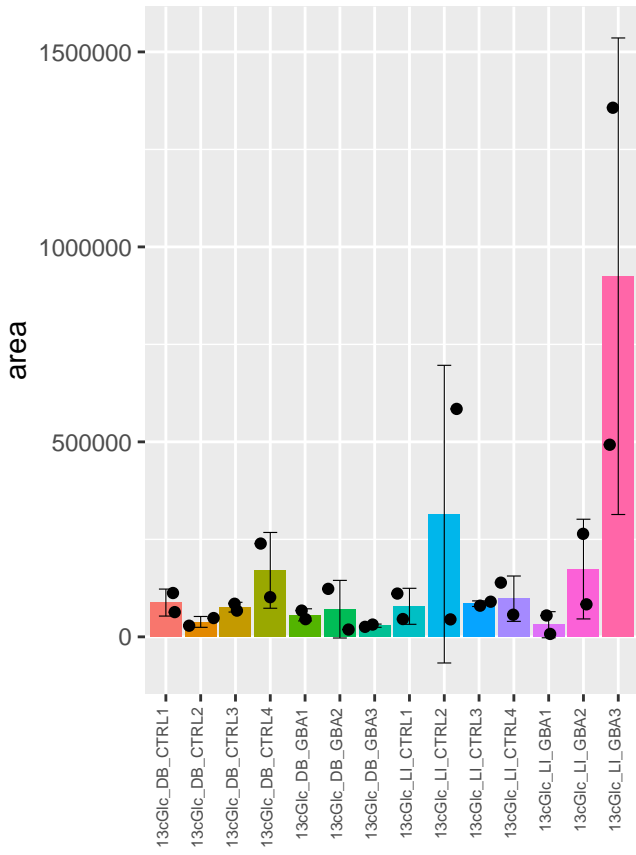


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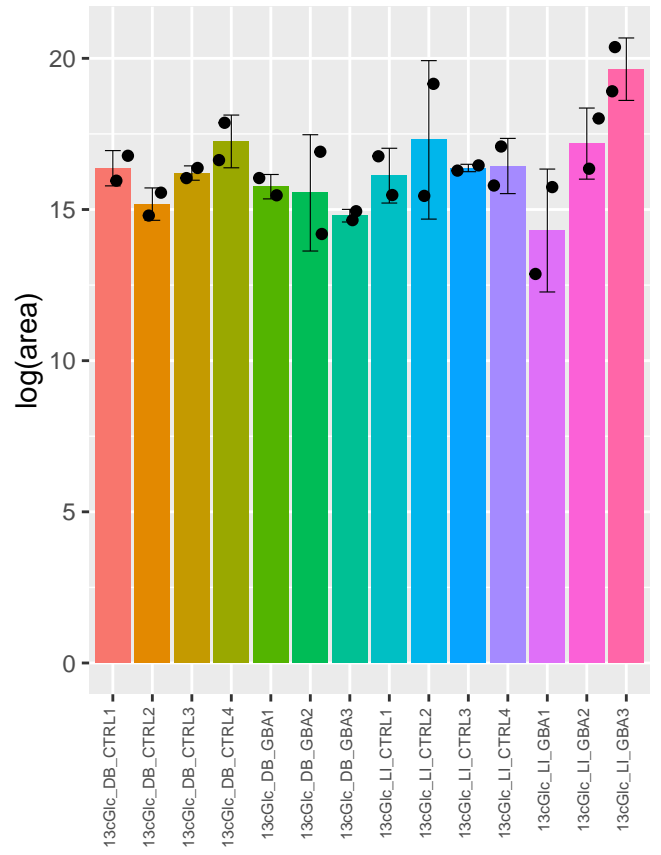




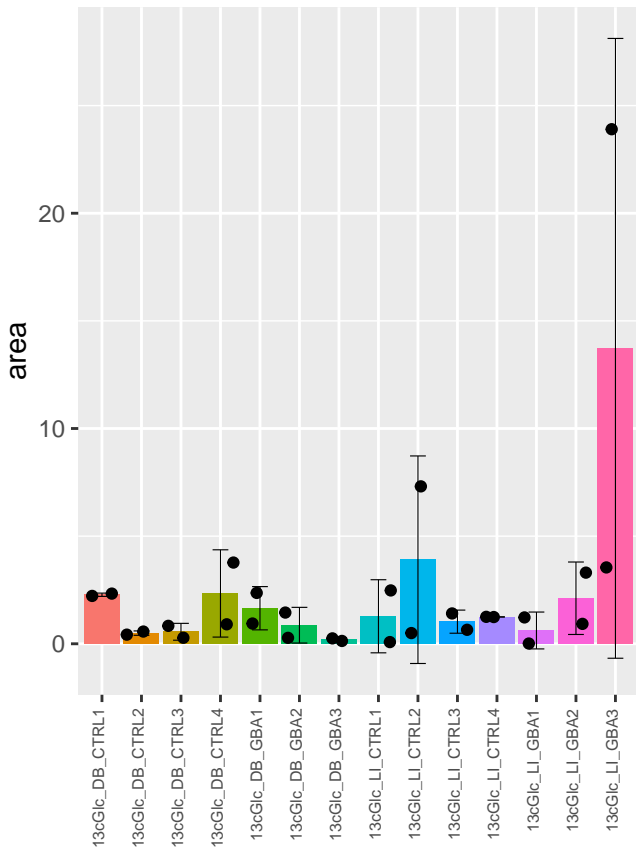
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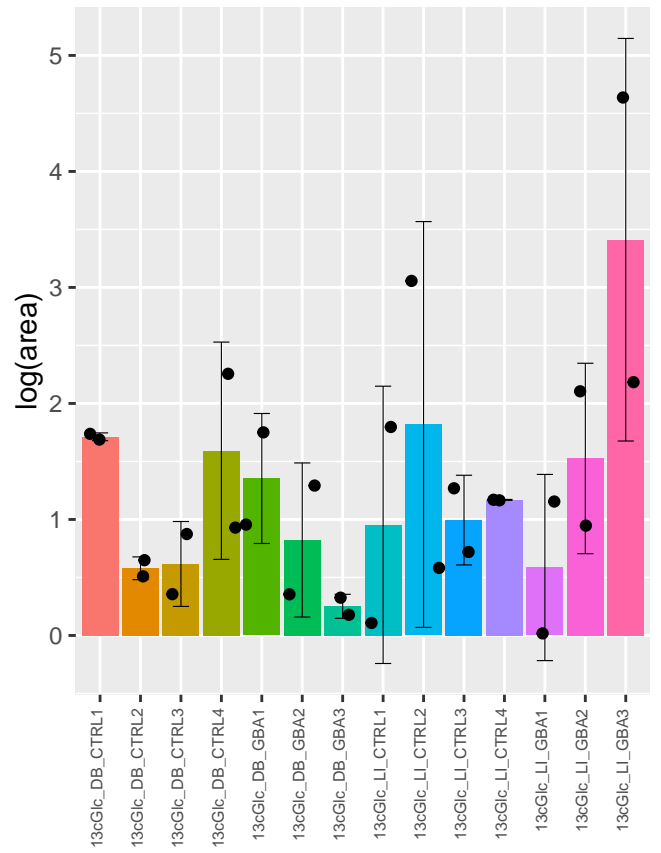
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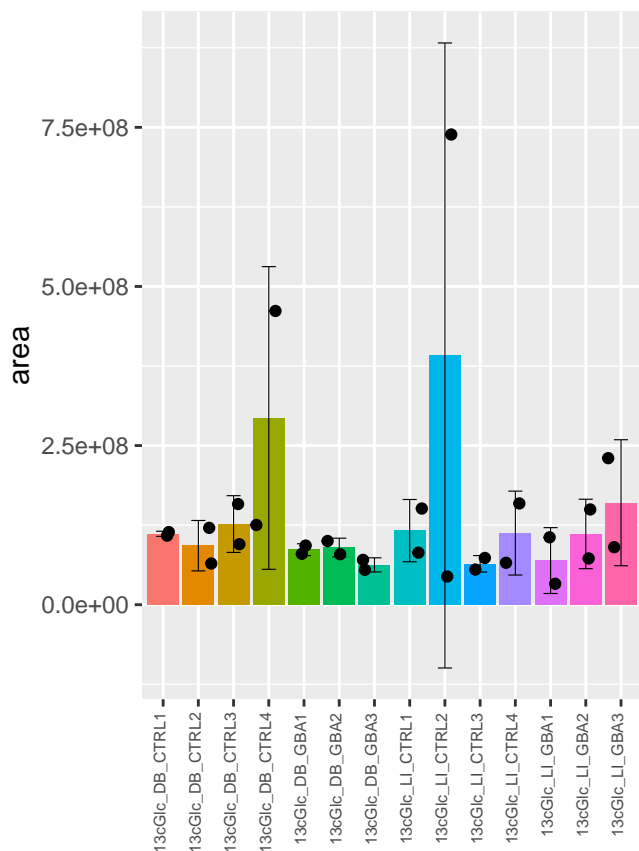
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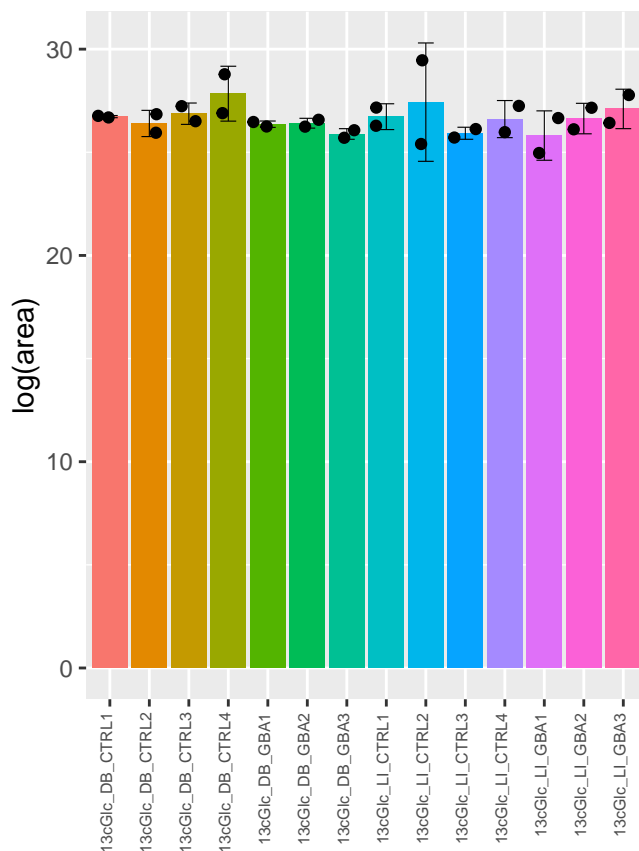
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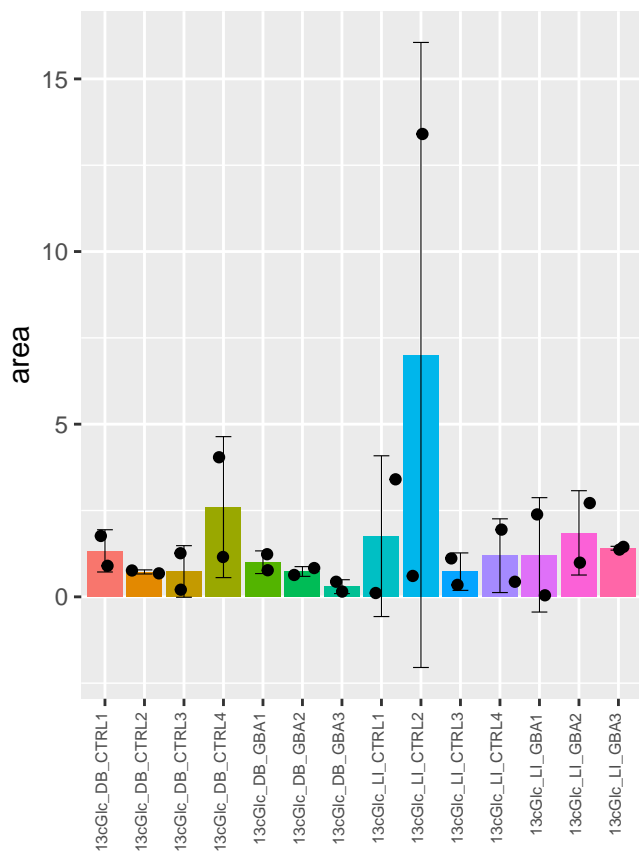
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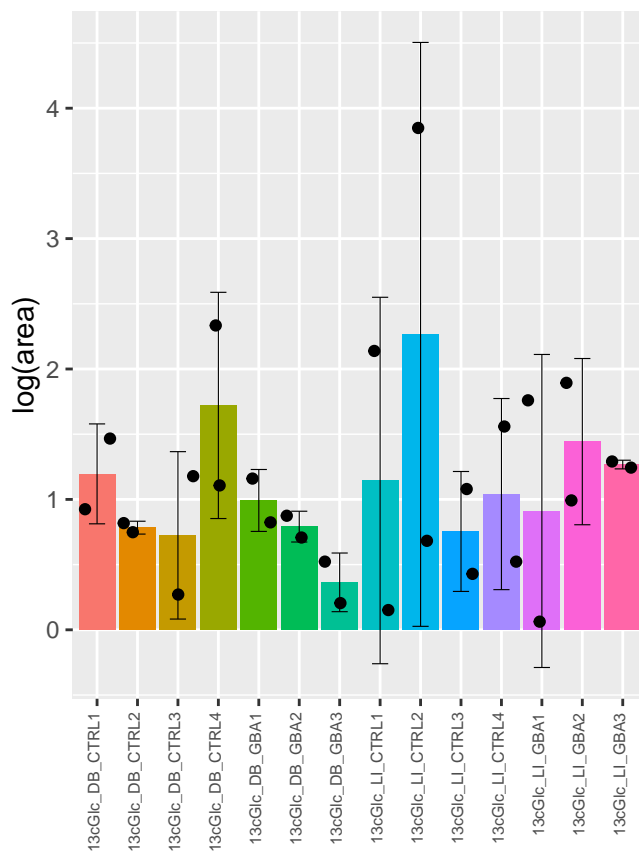
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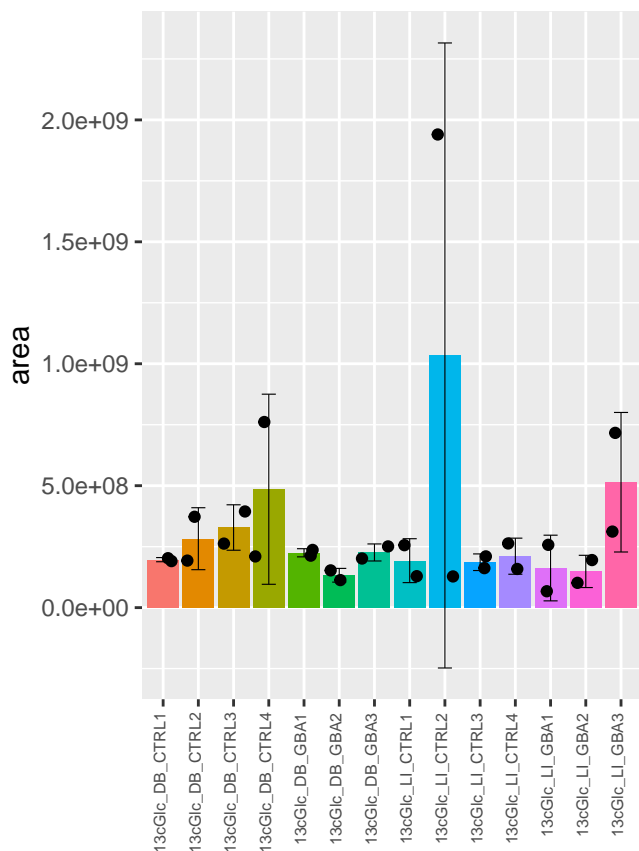
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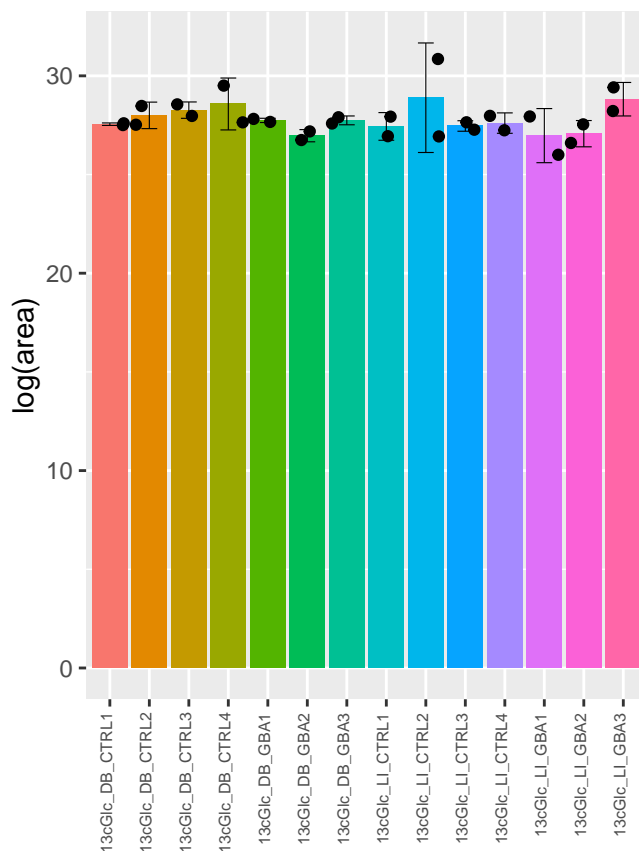
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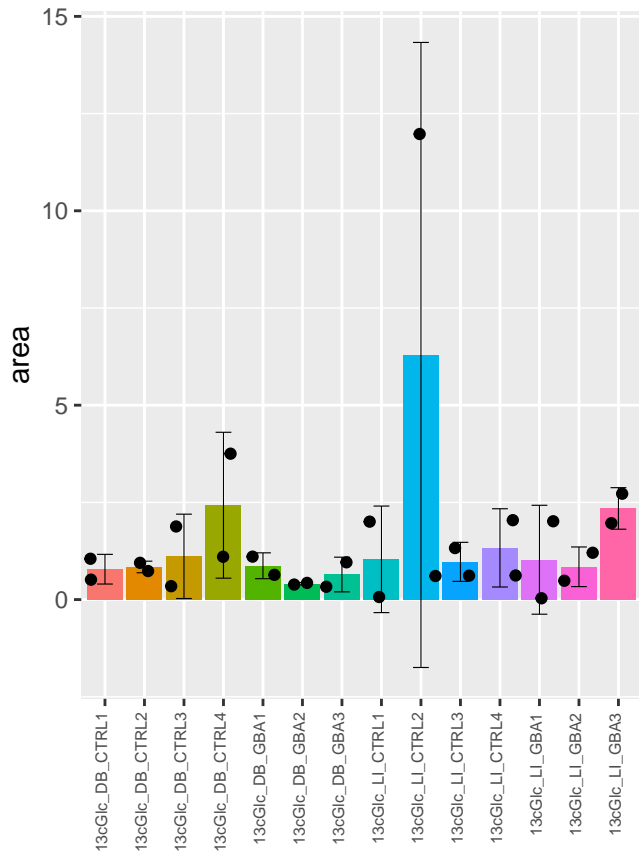
Lactate



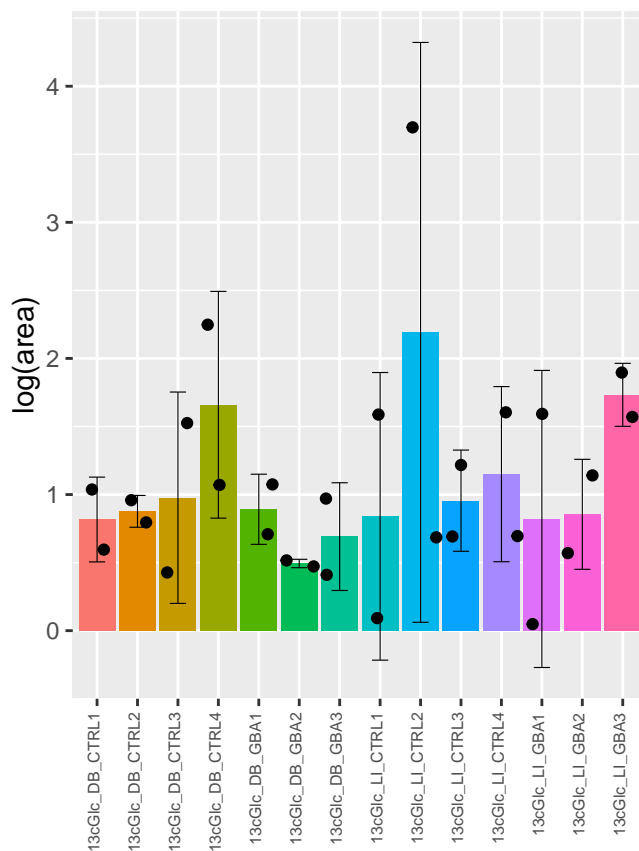
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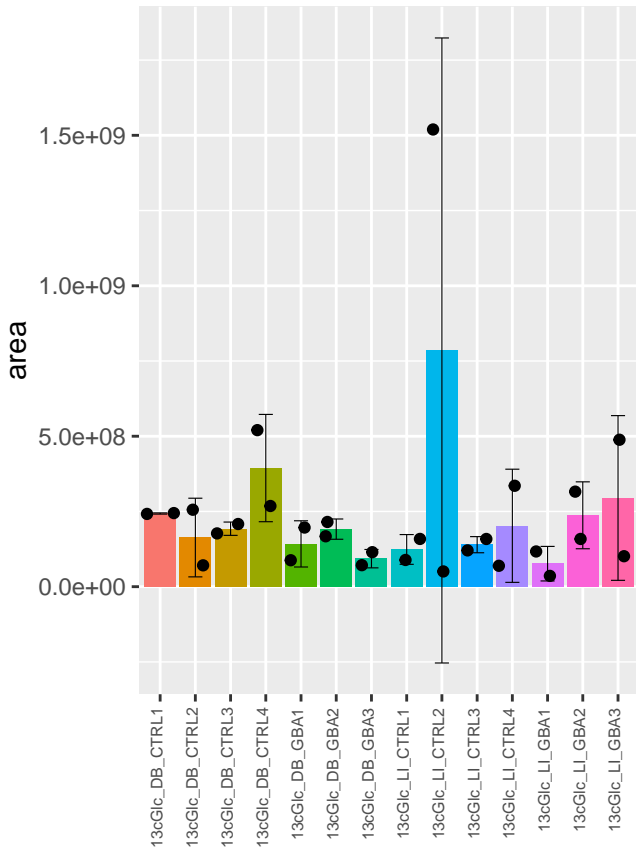
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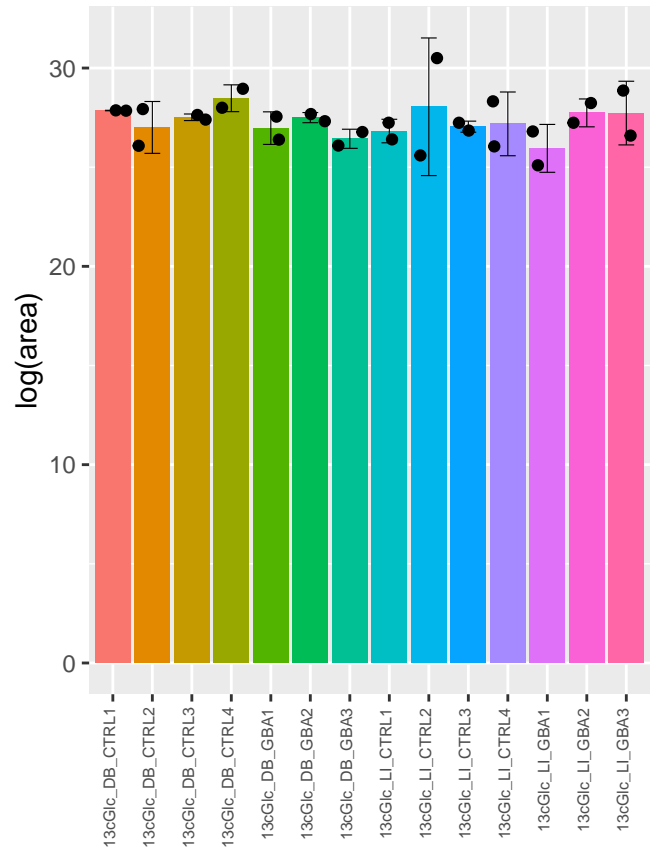
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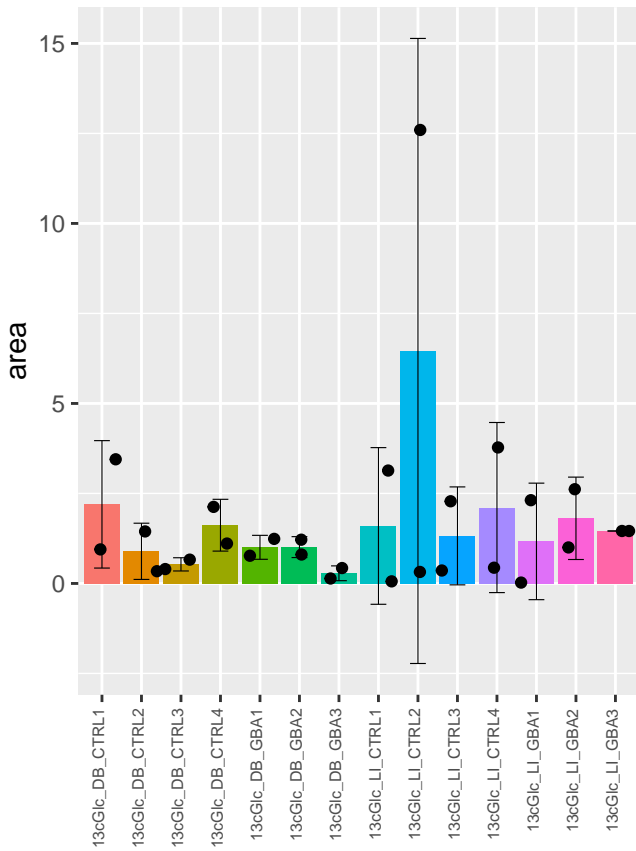
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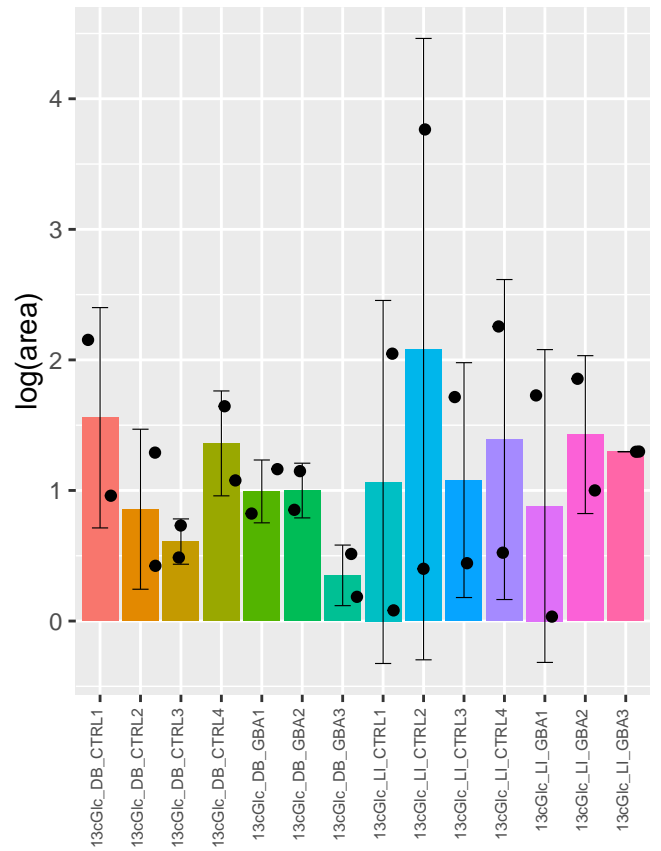
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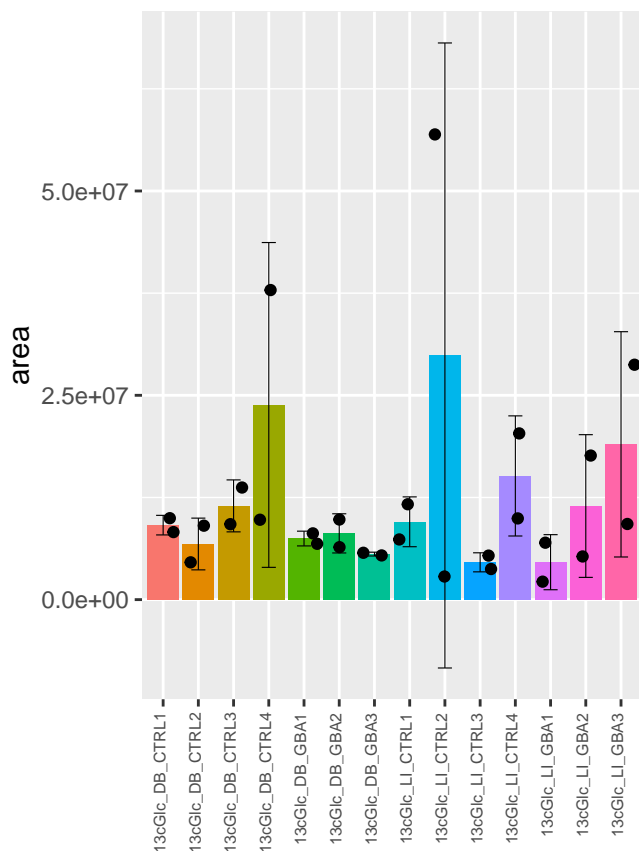
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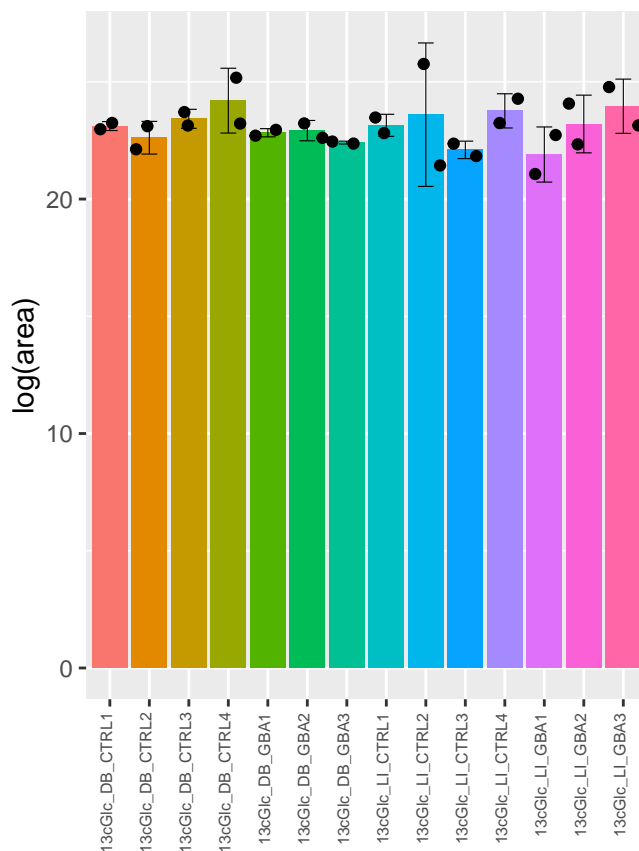
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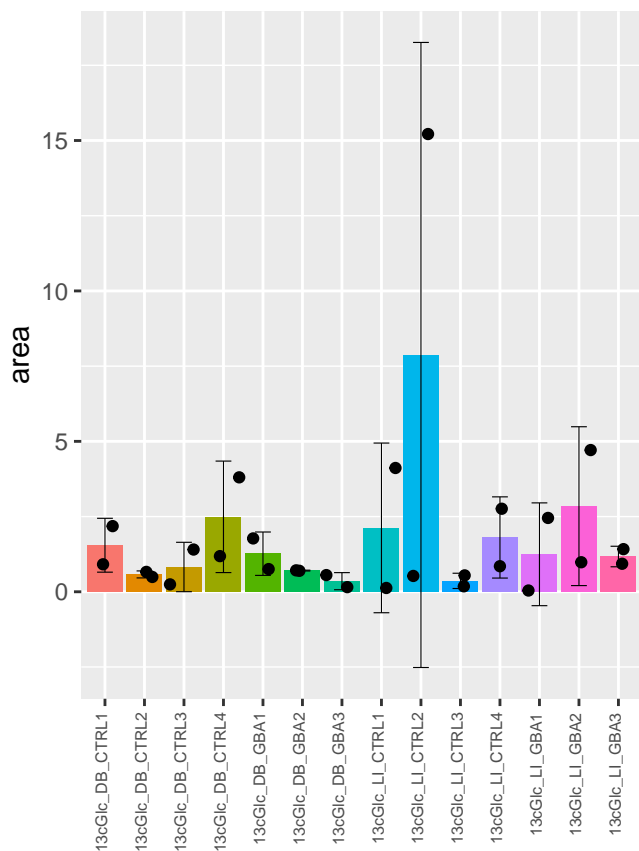
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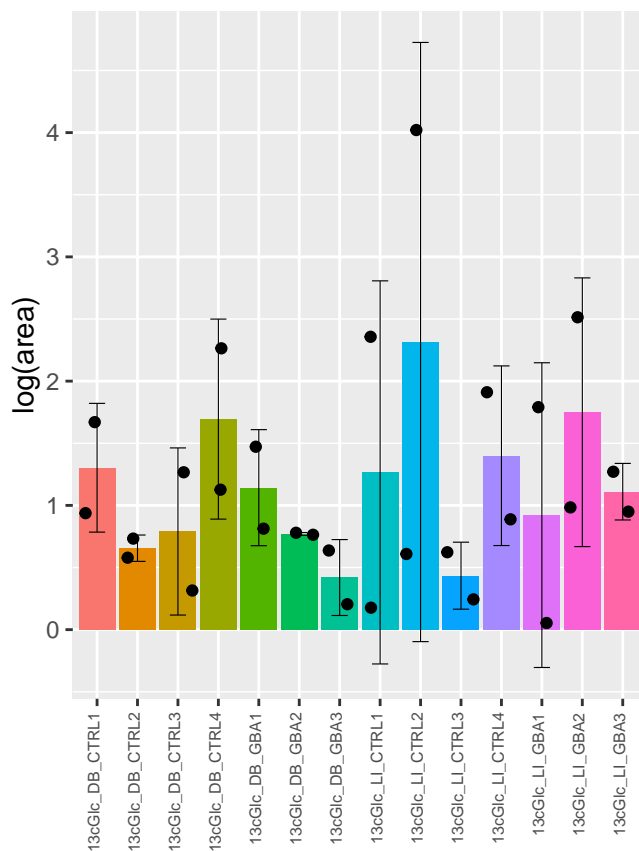
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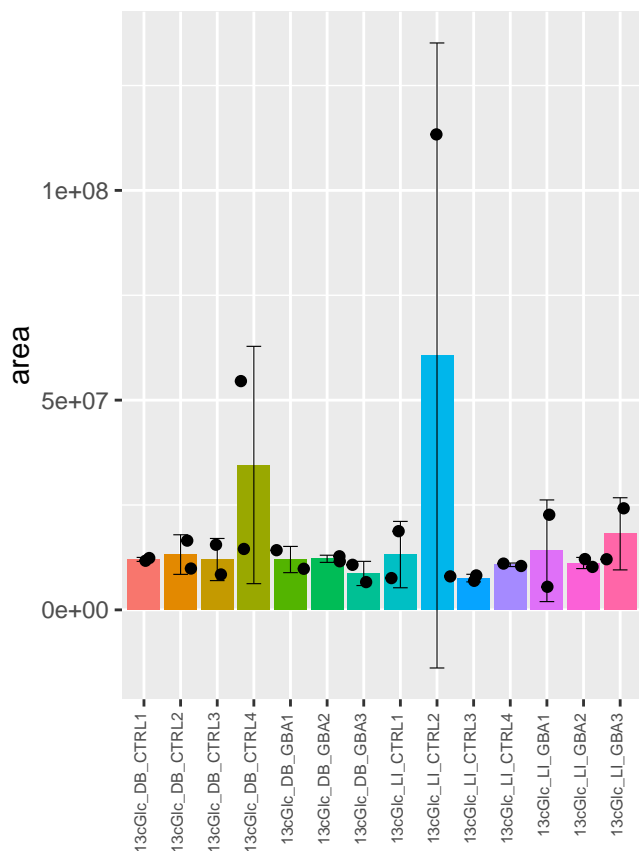
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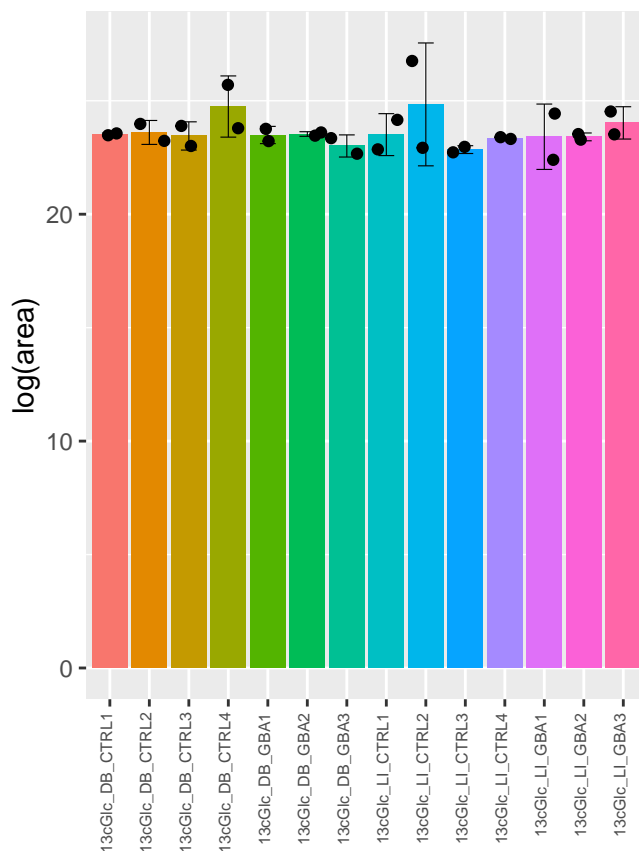
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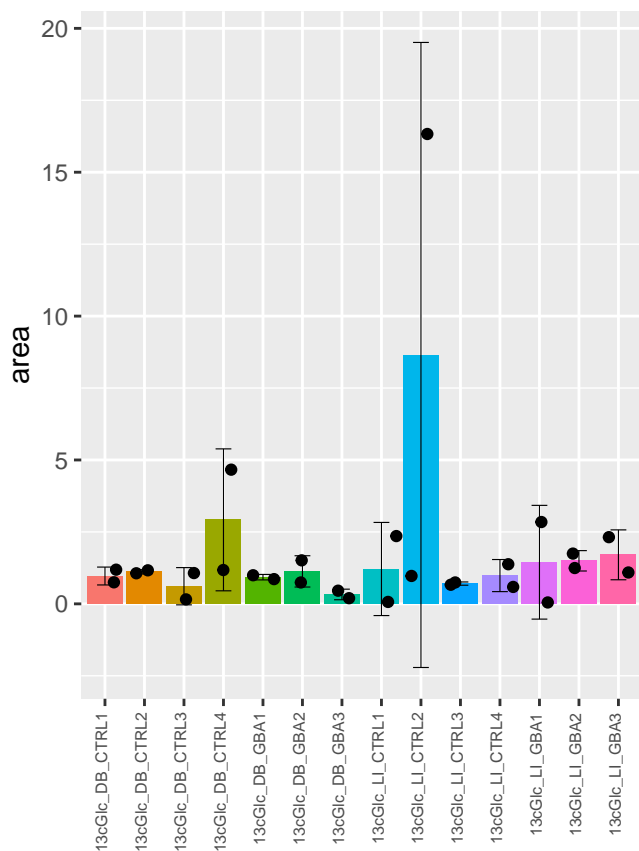
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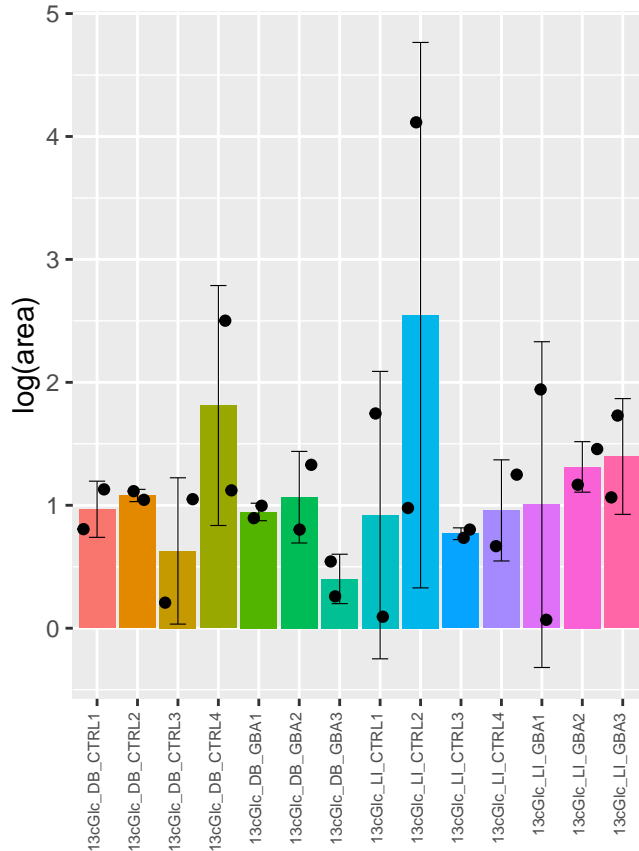
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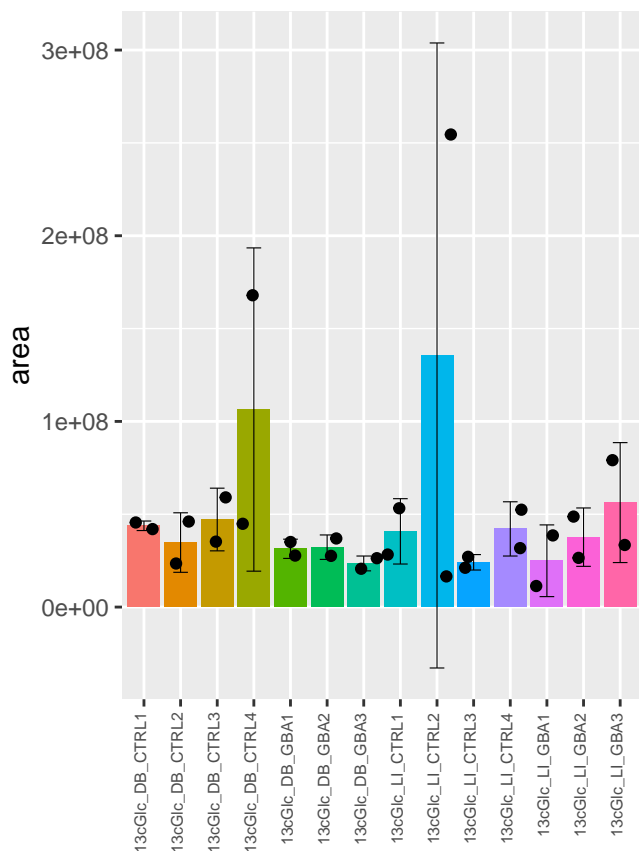
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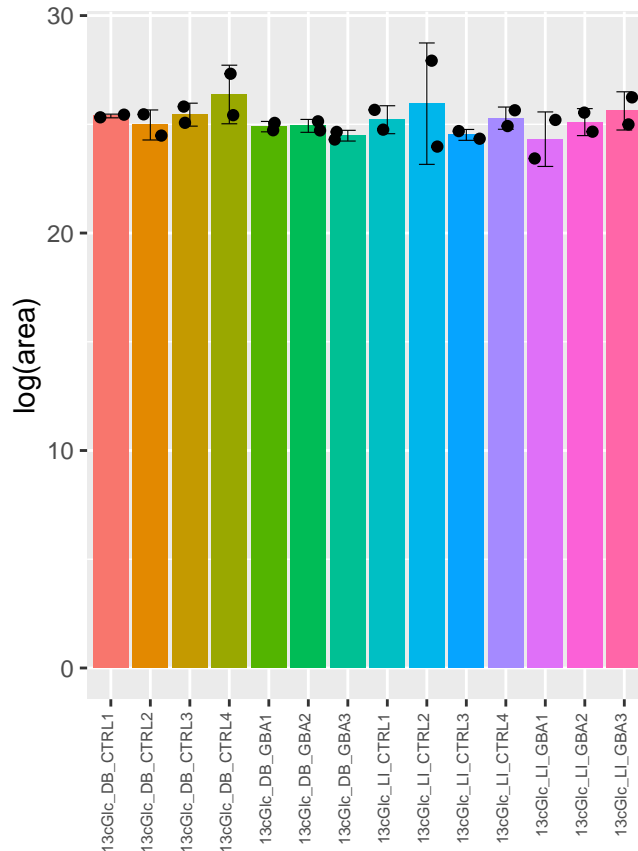
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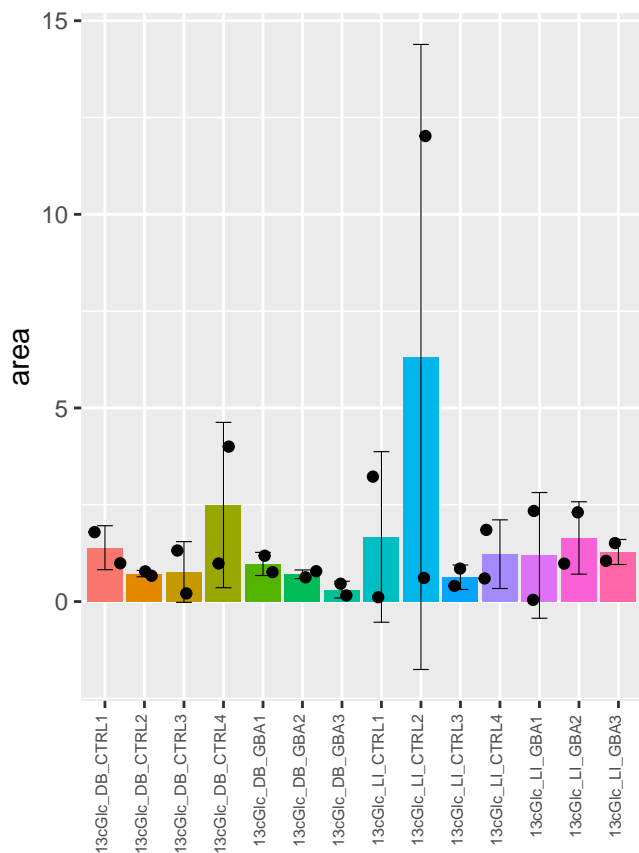
Methionine



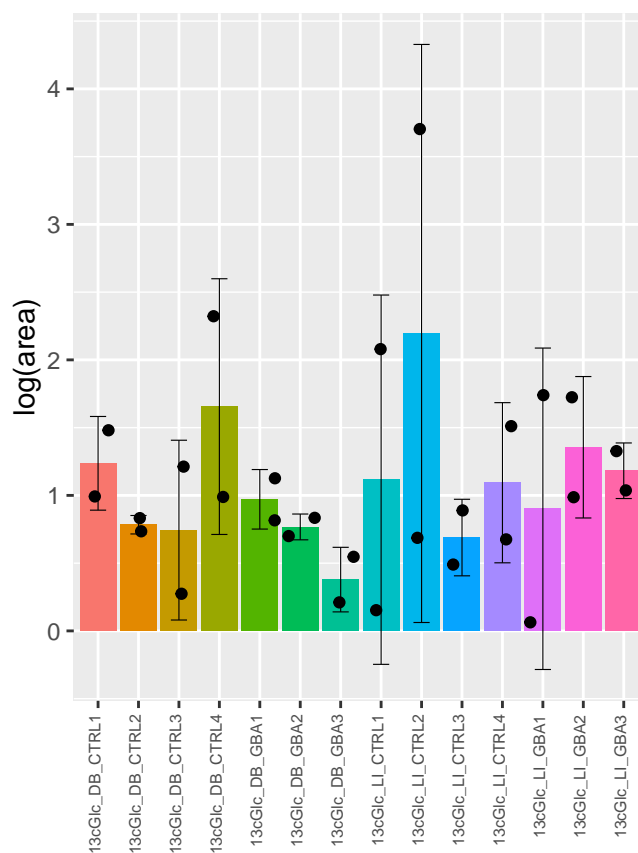
Methionine



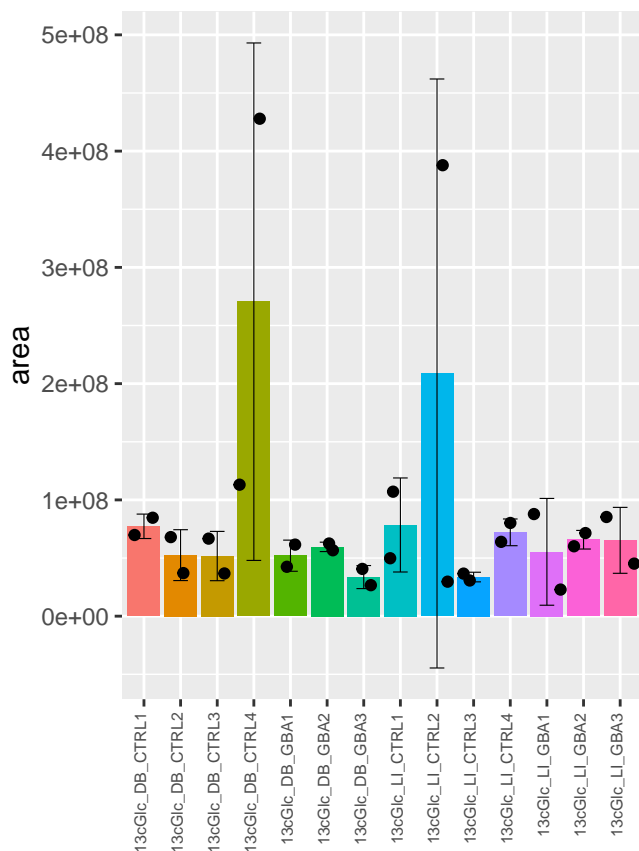
Methionine



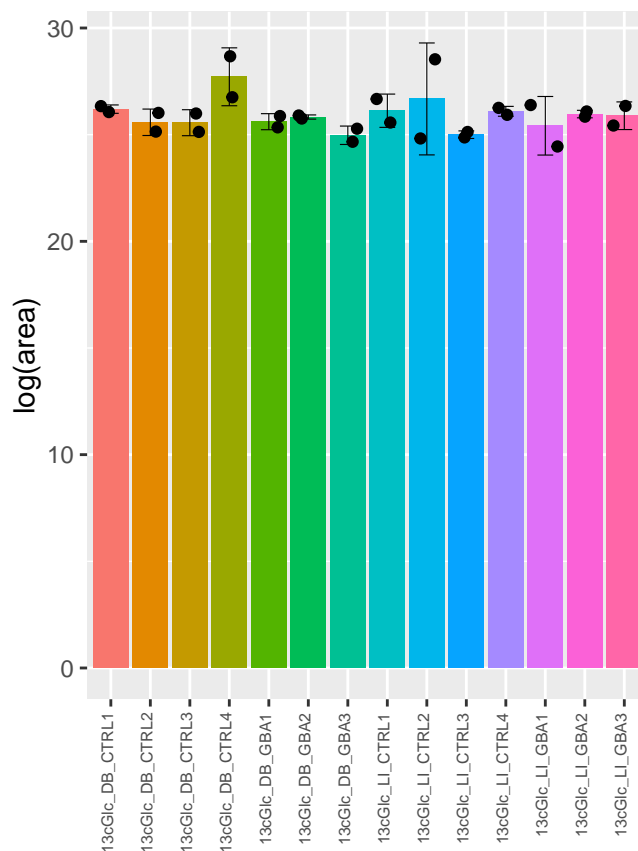
Methionine



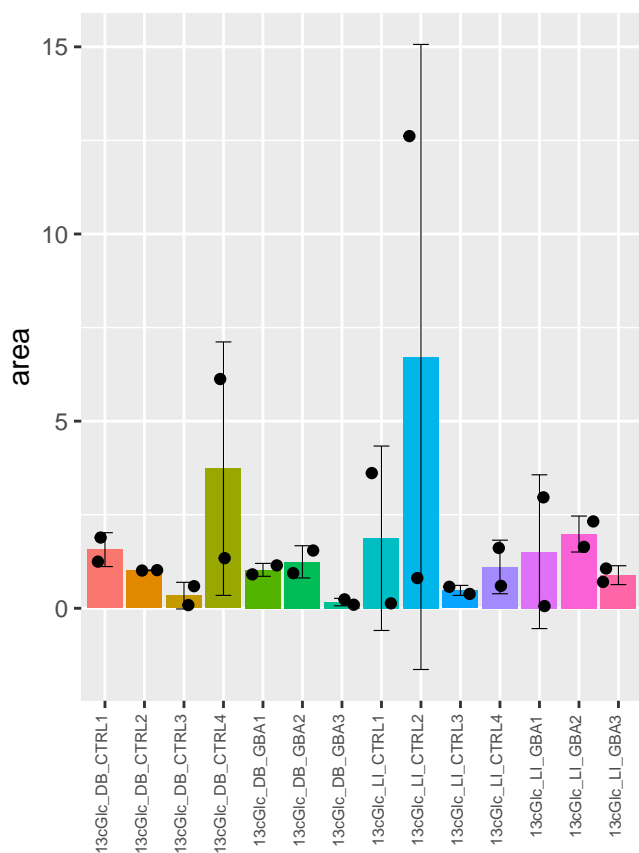
N-acetylaspartate



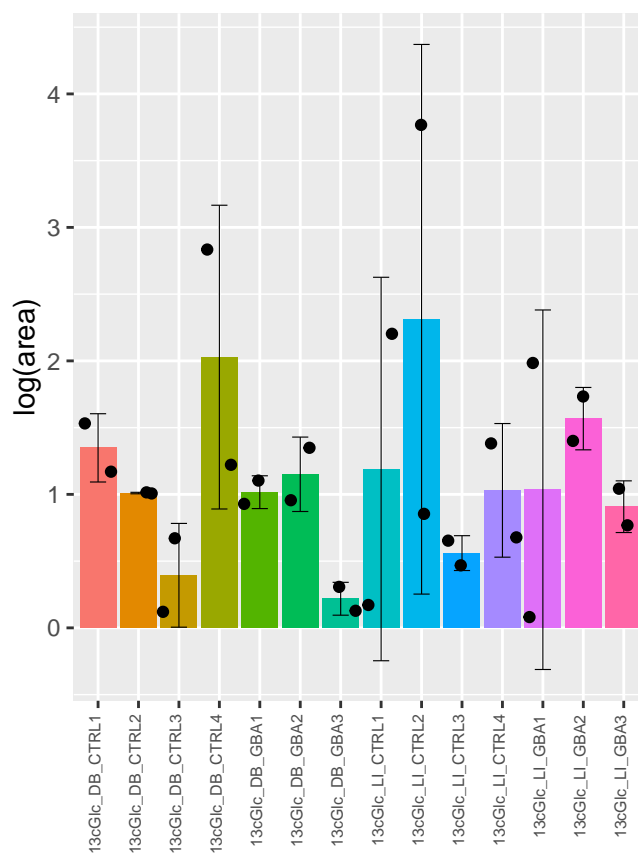
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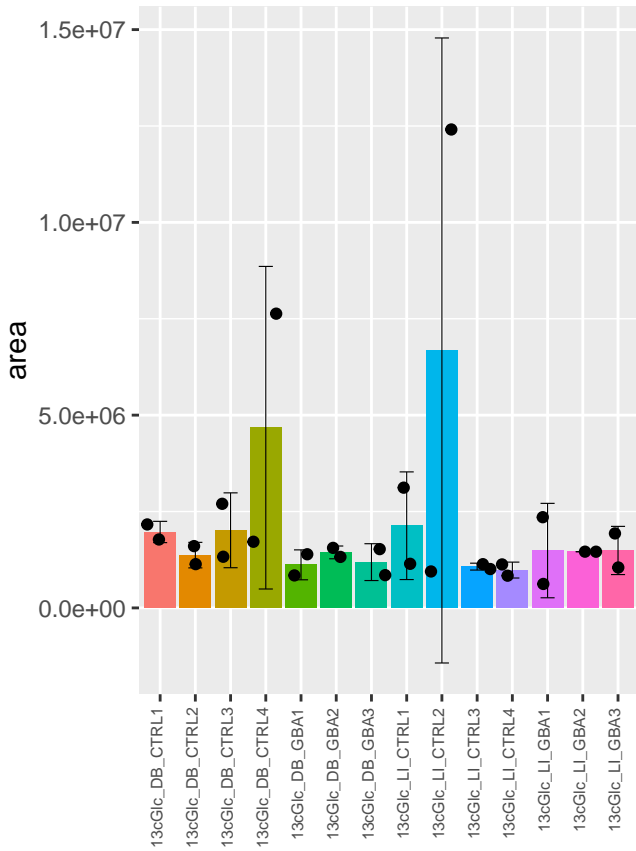
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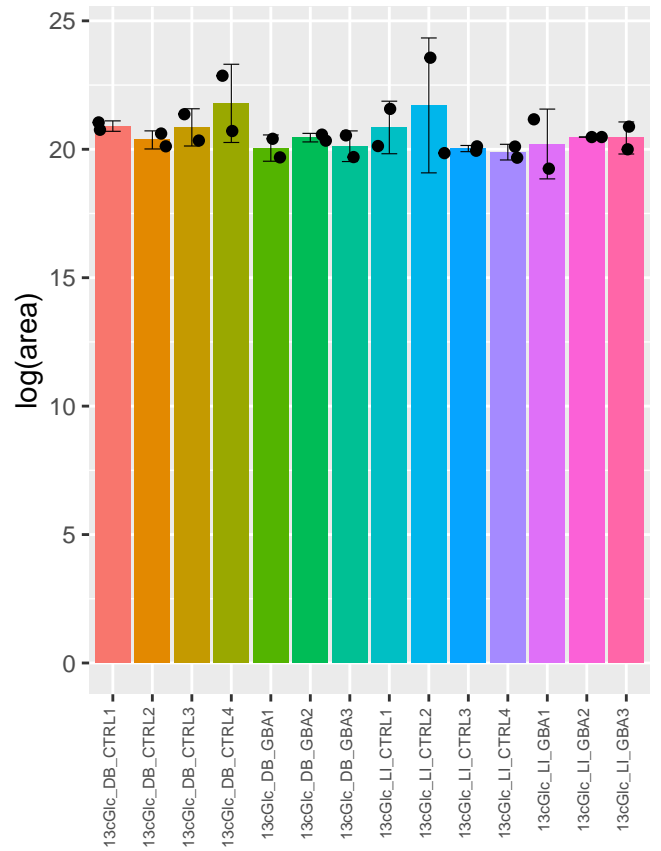
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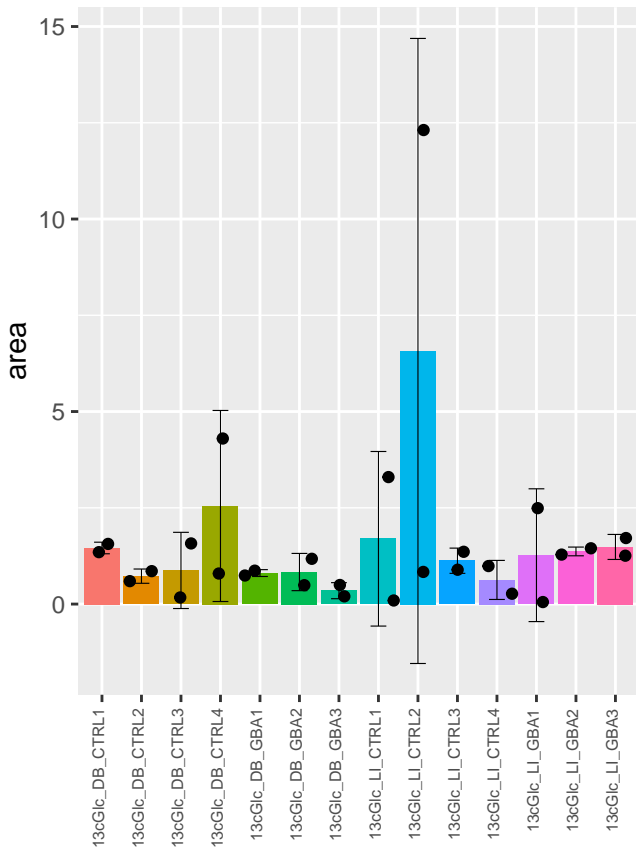
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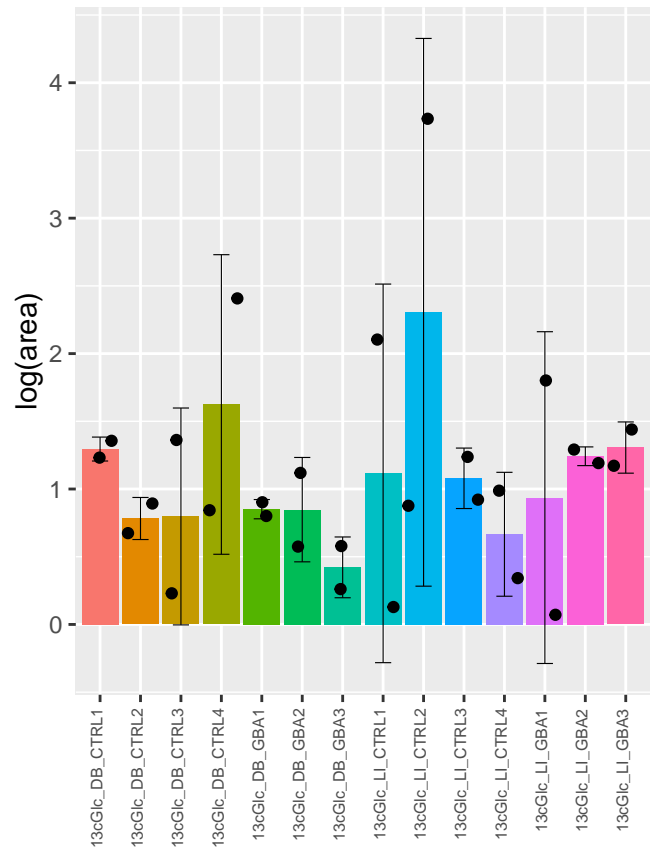
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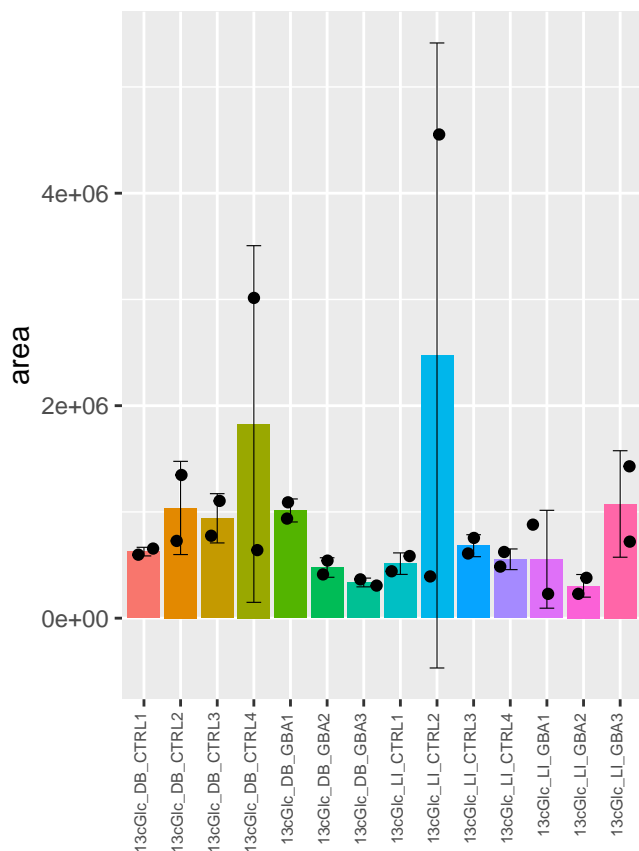
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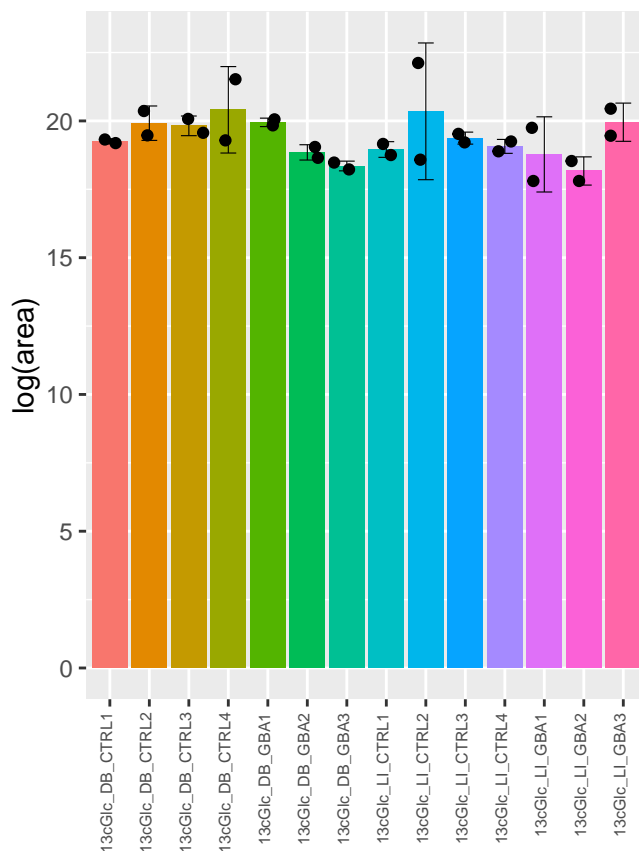
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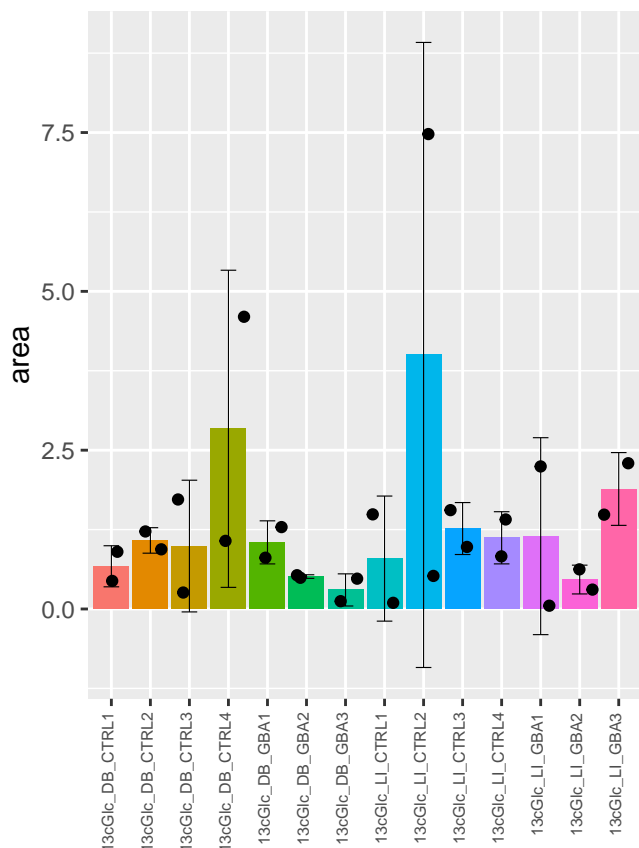
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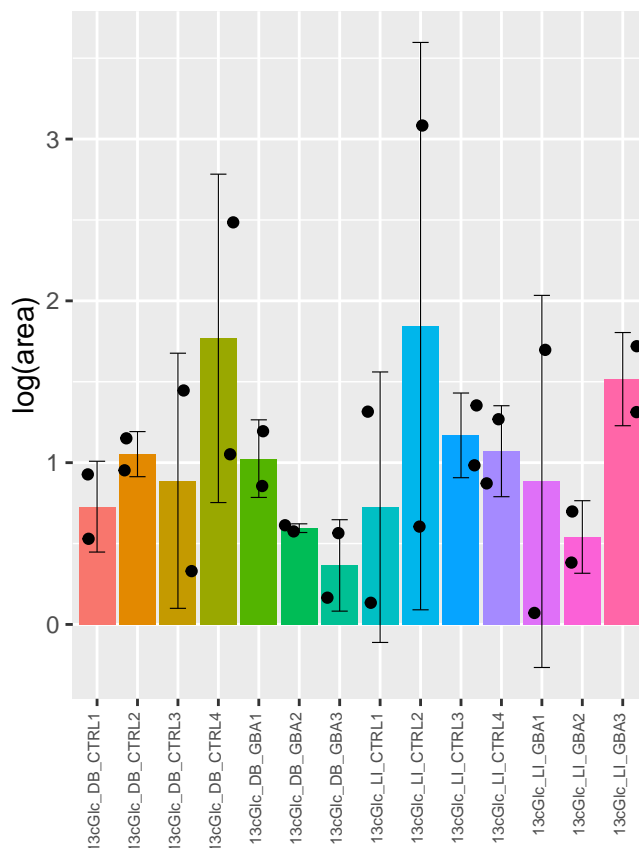
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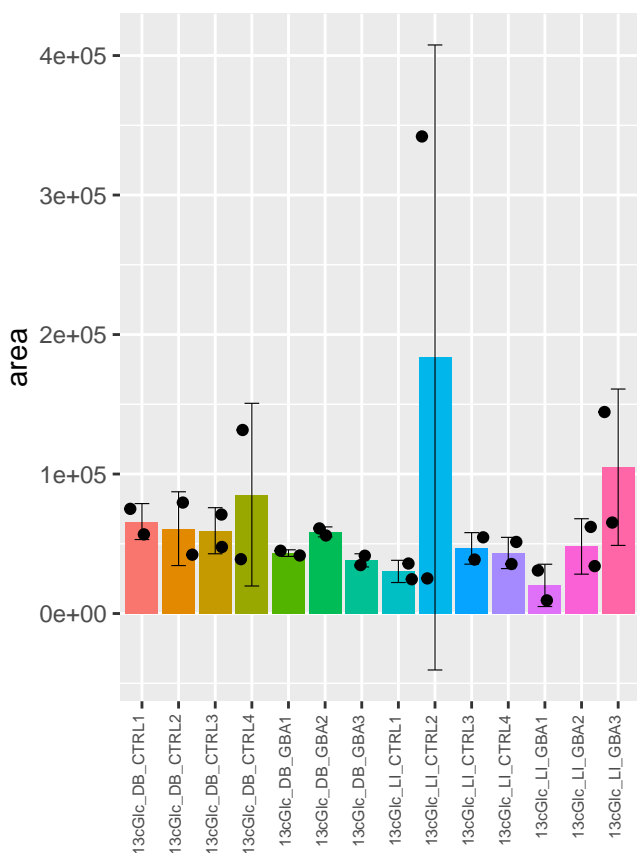
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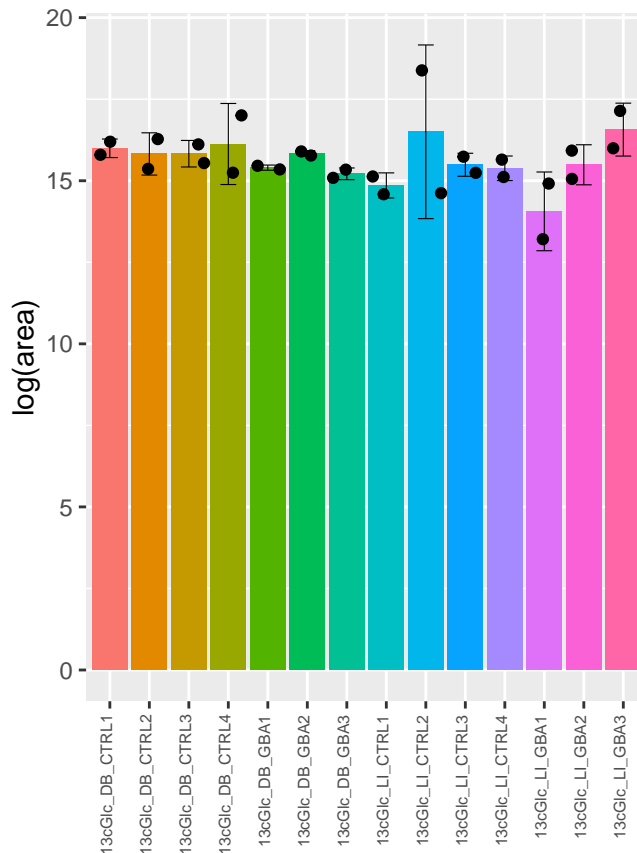
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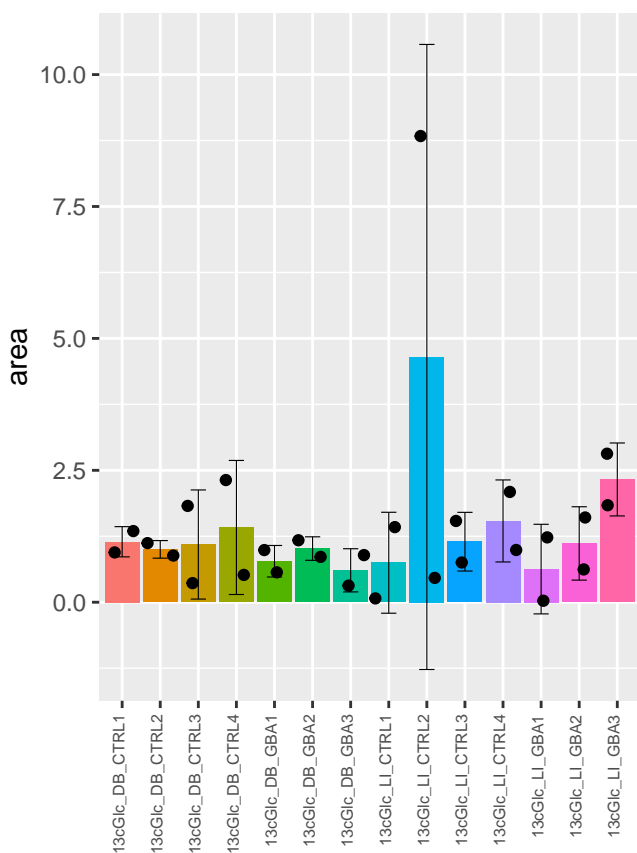
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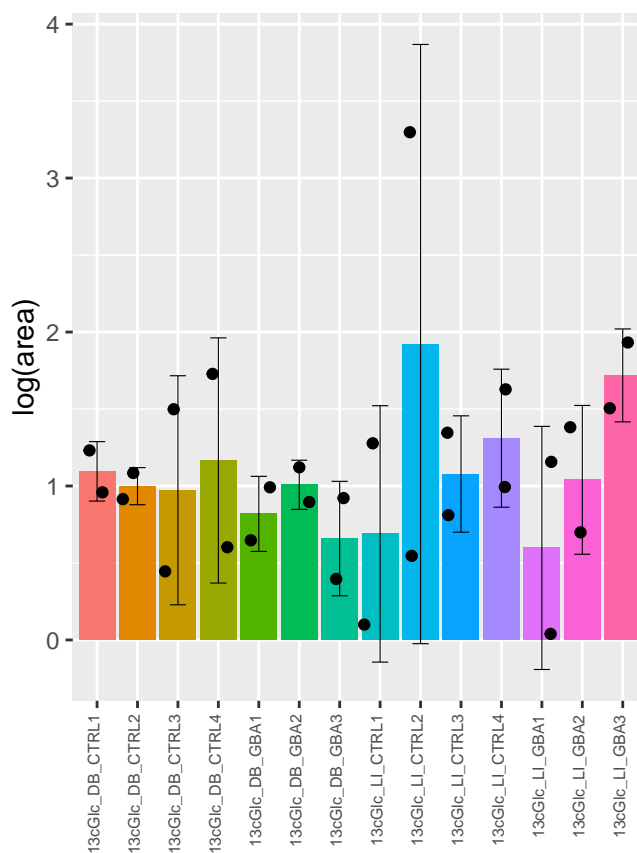
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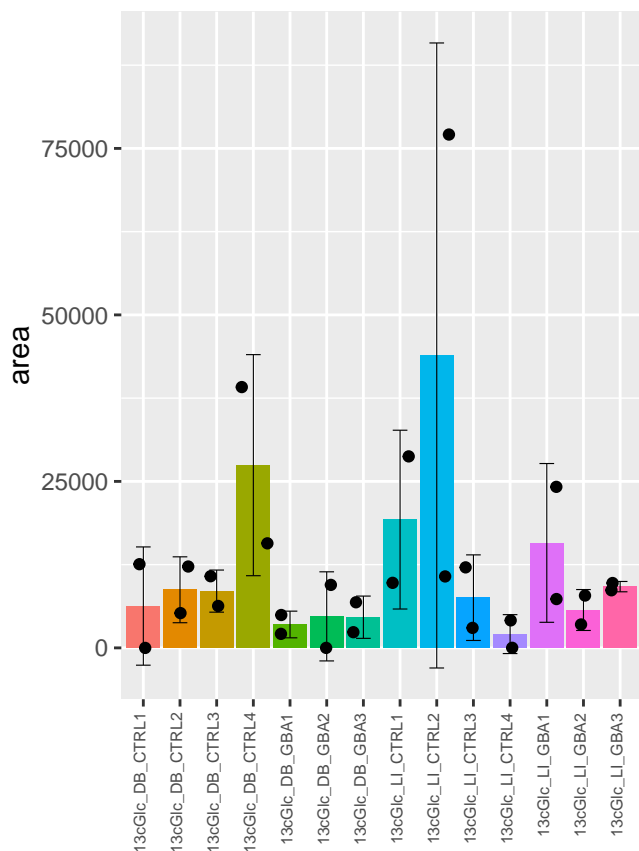
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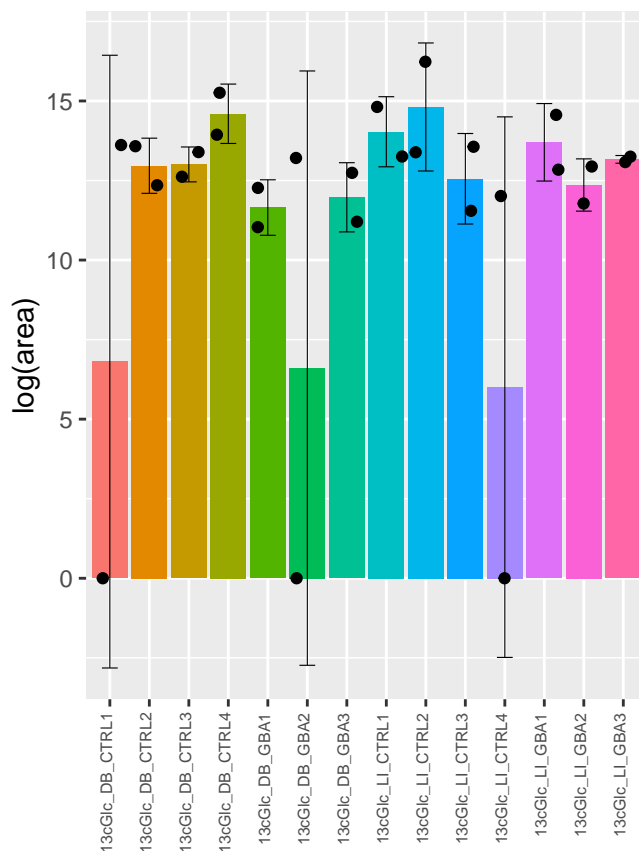
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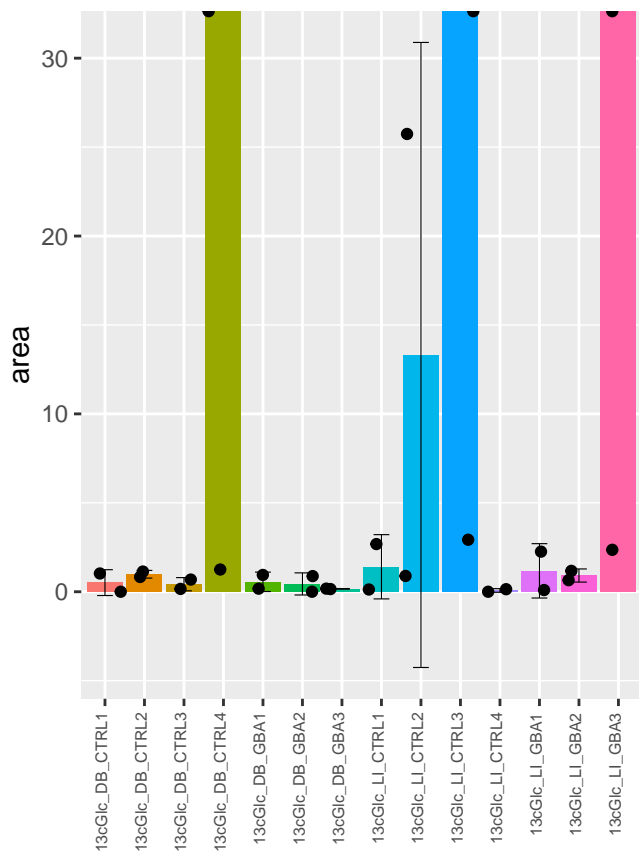
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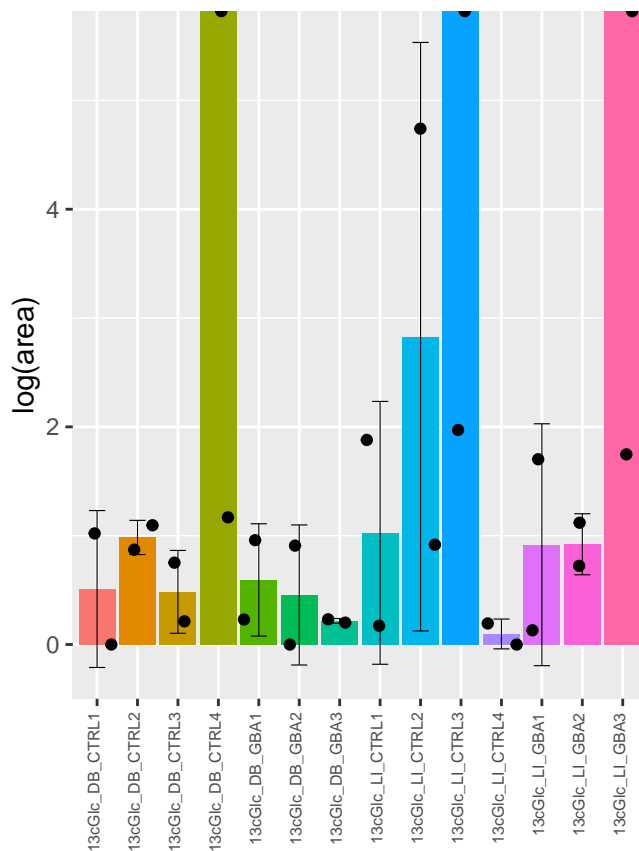
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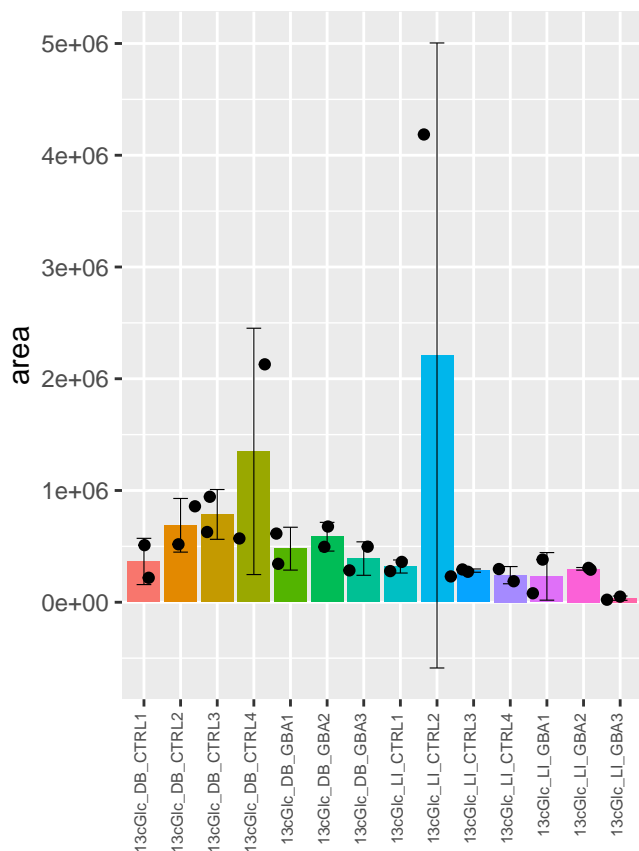
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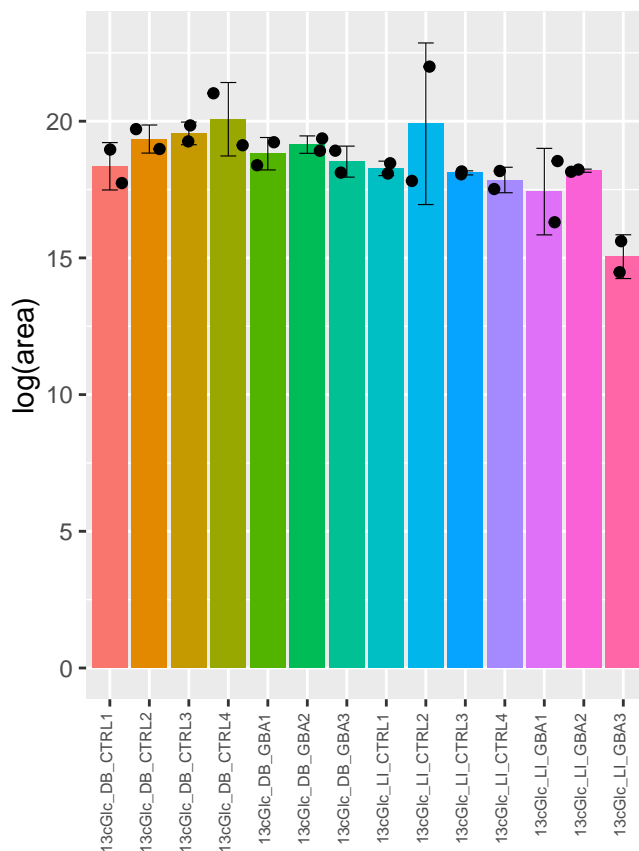
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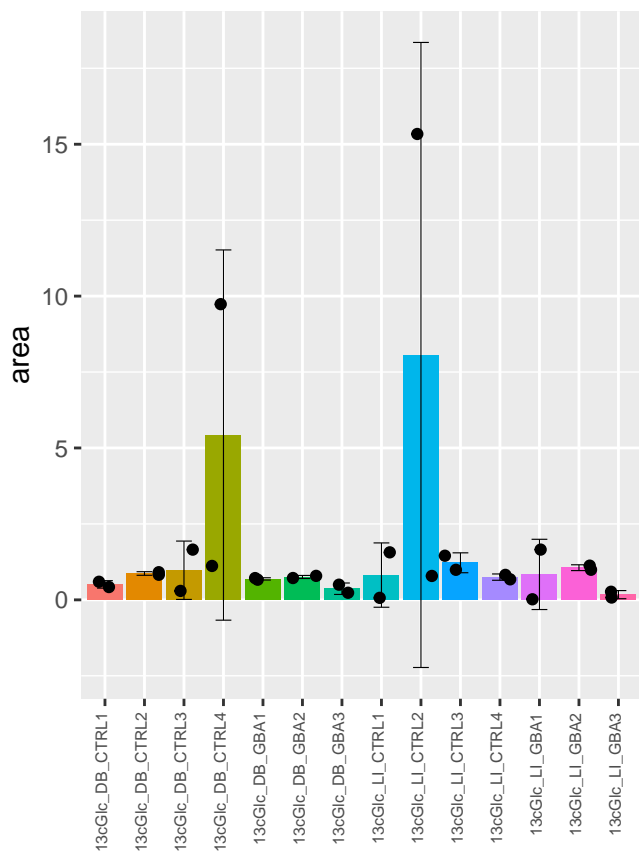
PEP



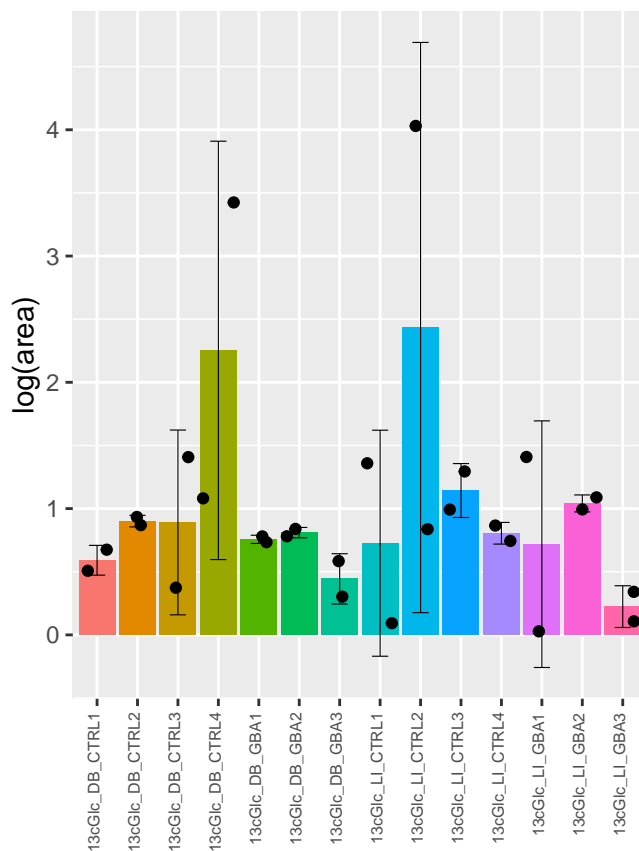
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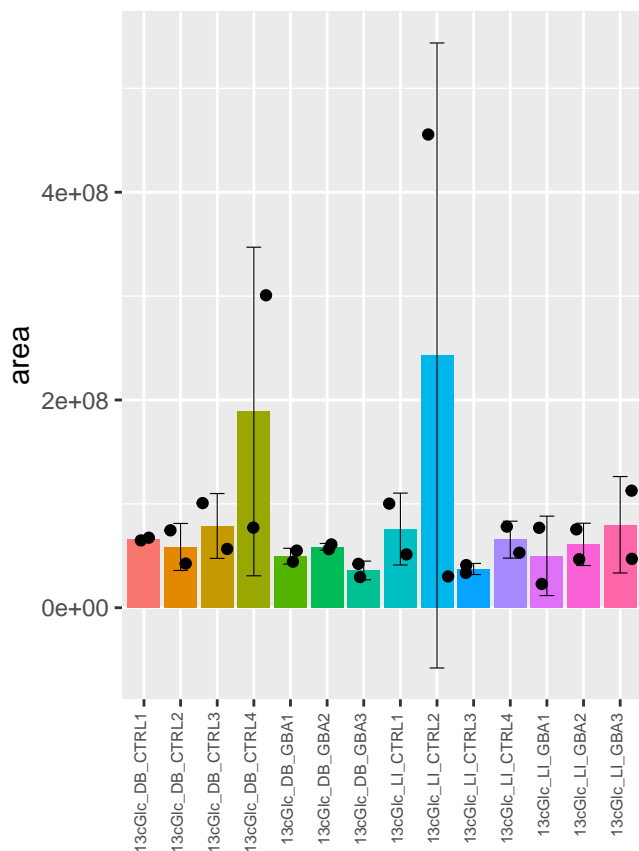
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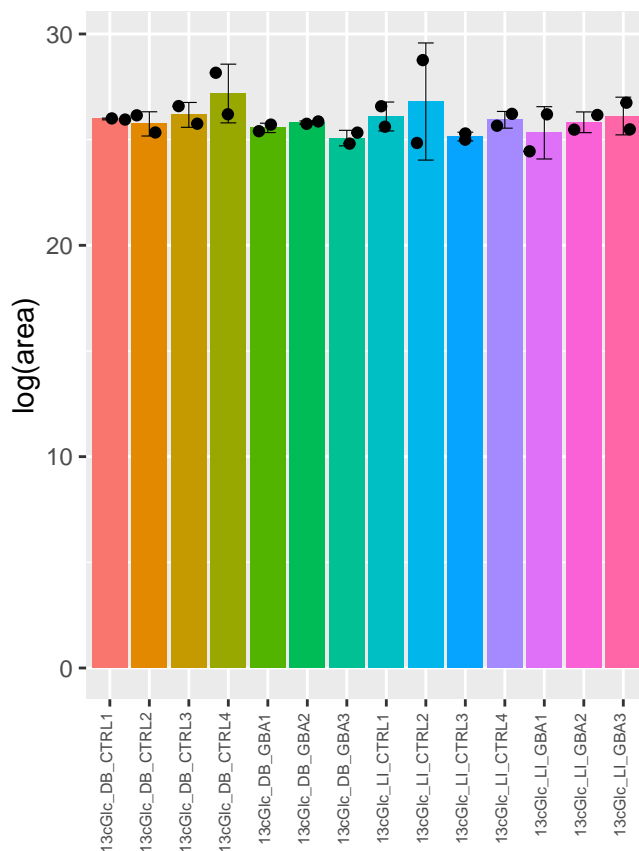
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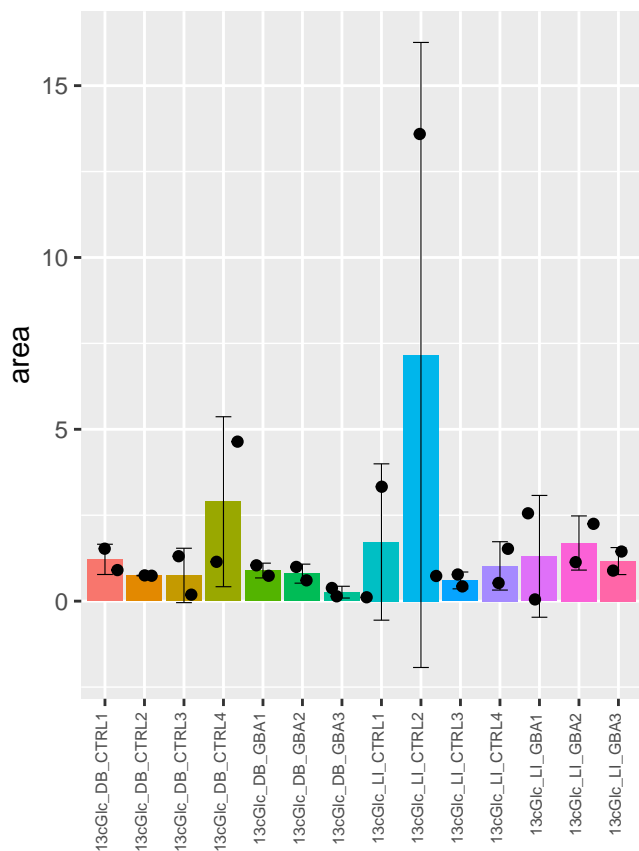
Phenylalanine



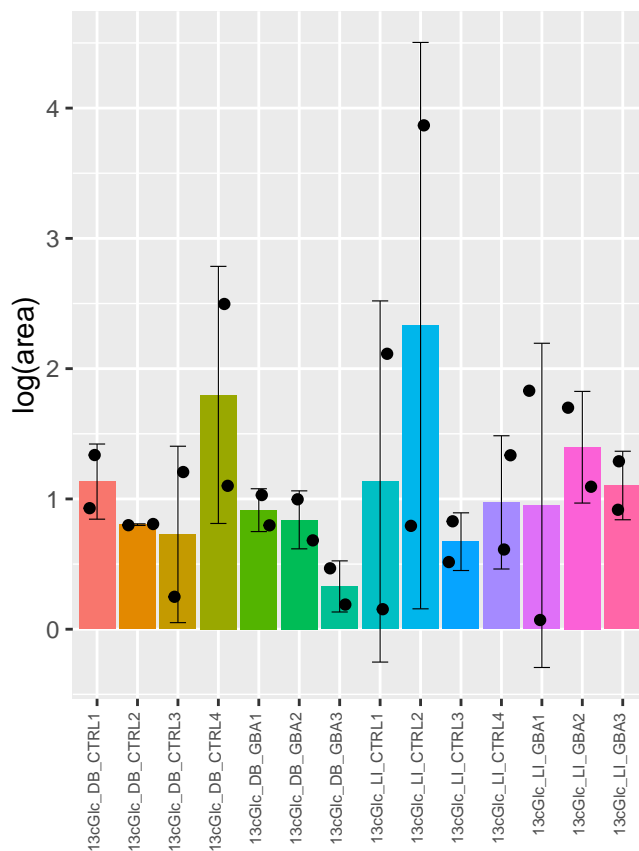
Phenylalanine

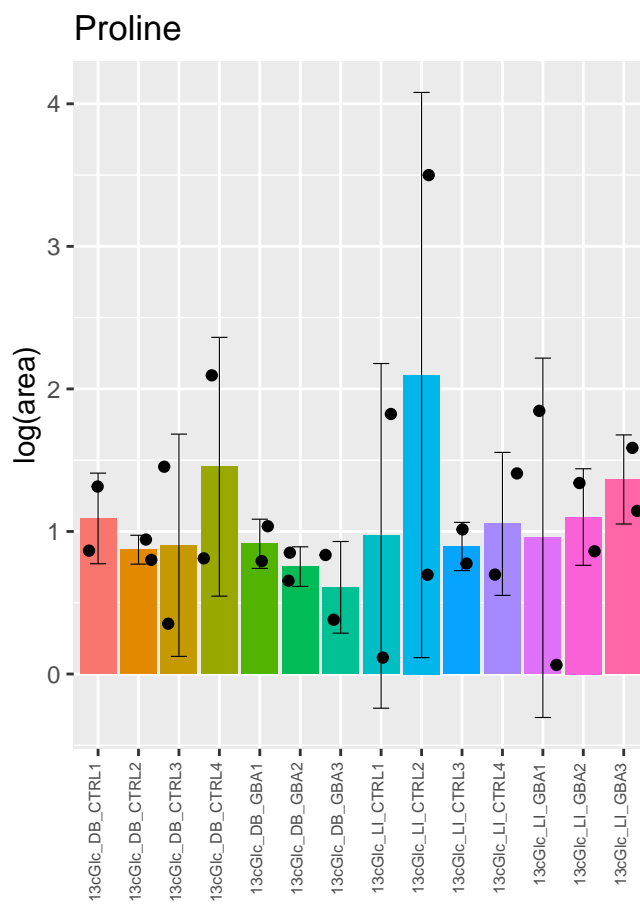
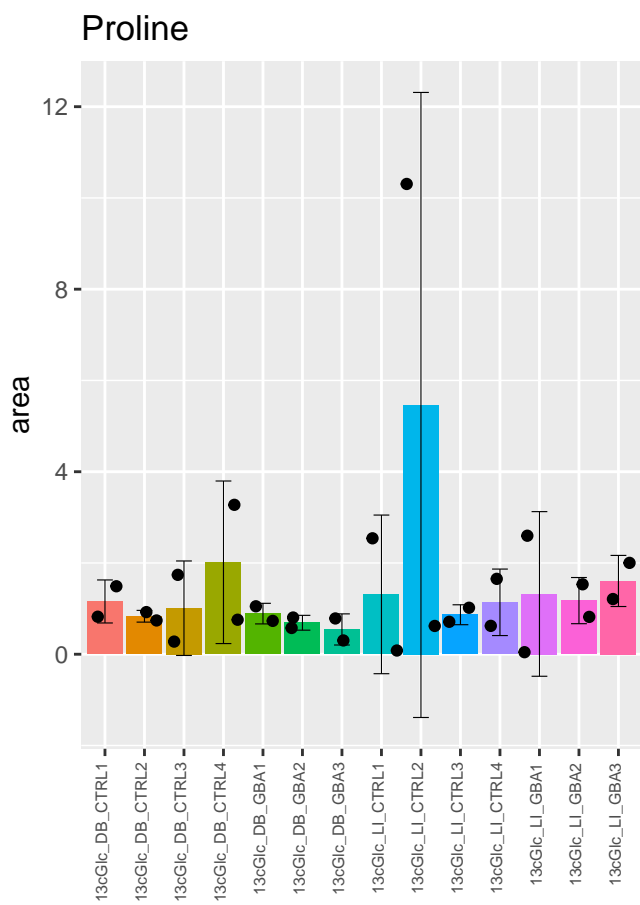
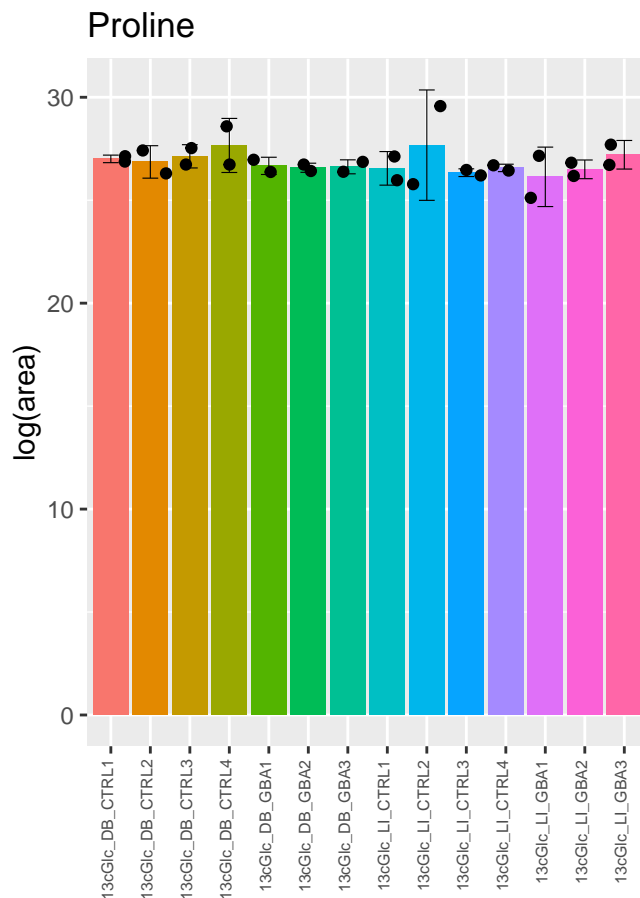
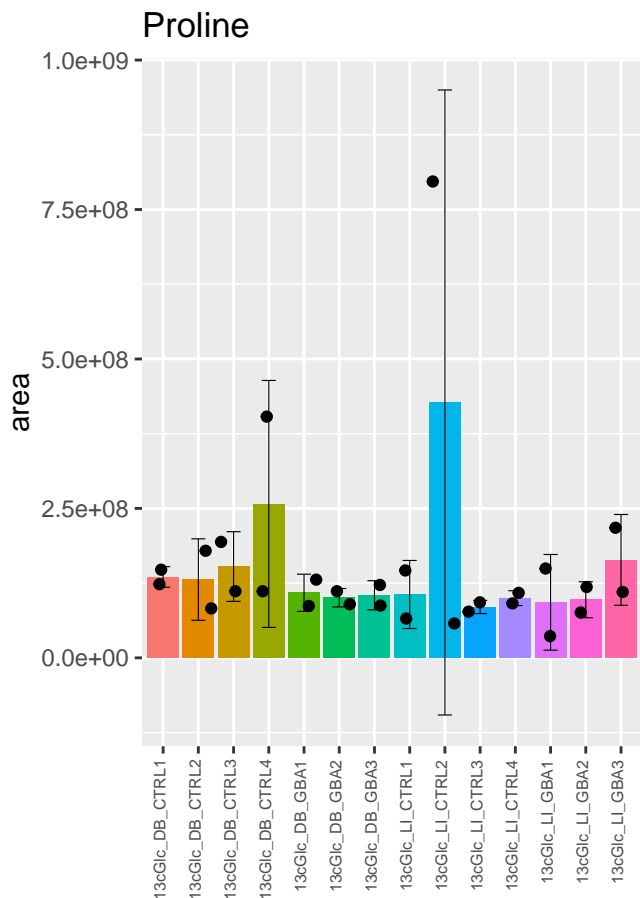


Phenylalanine

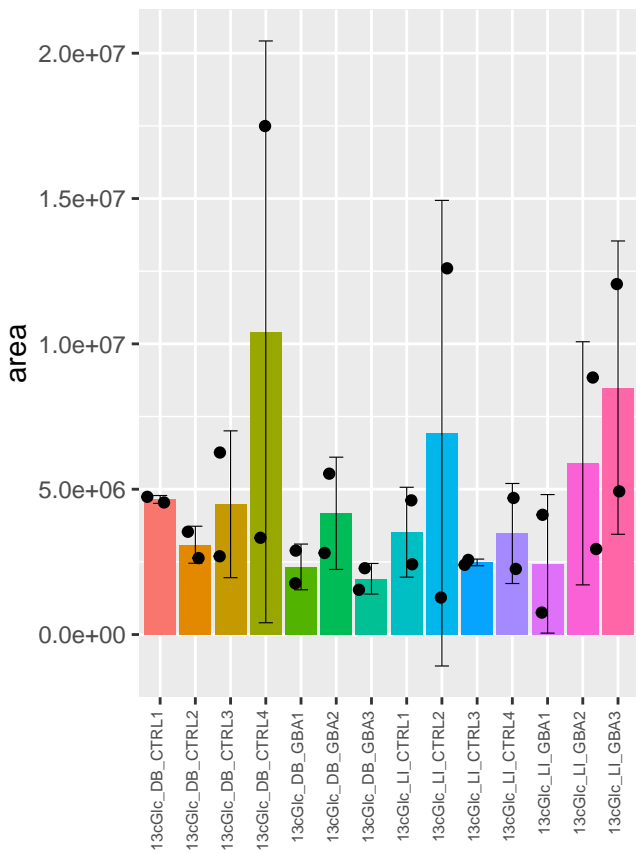


Phenylalanine

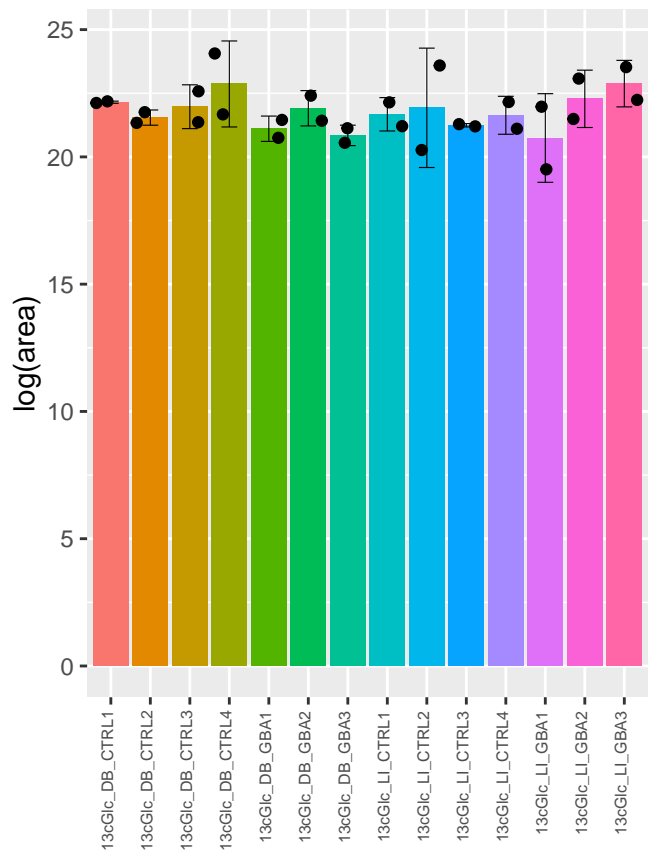




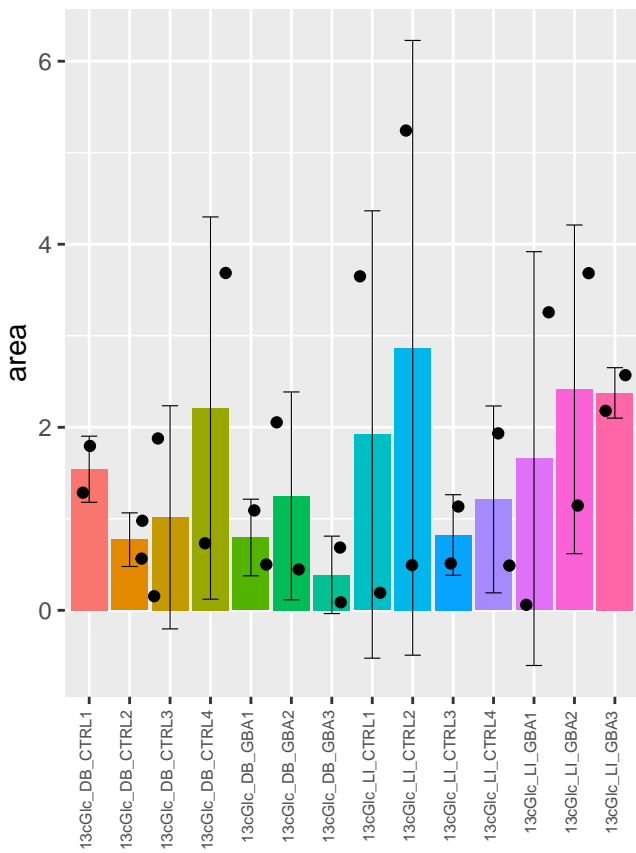
Pyruvate



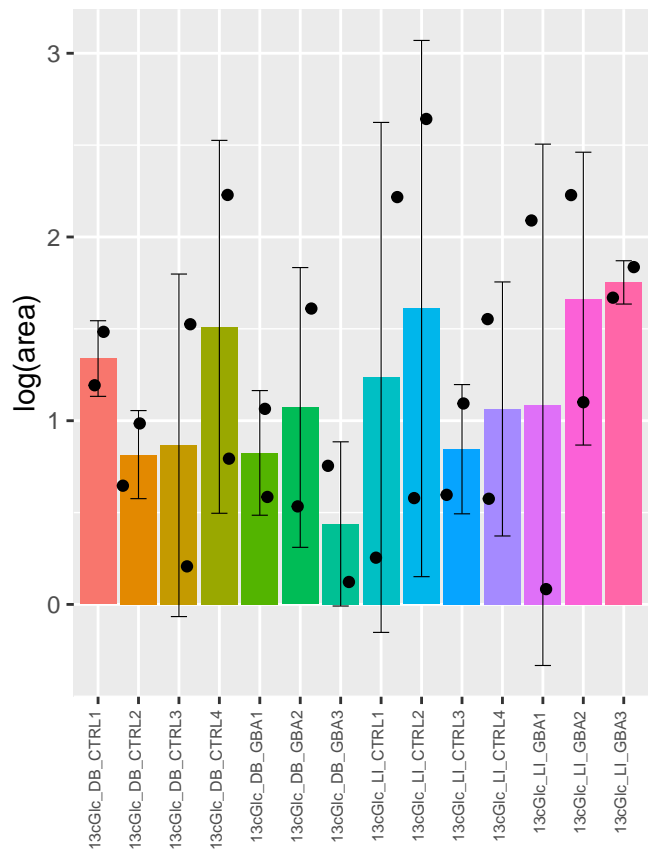
Pyruvate



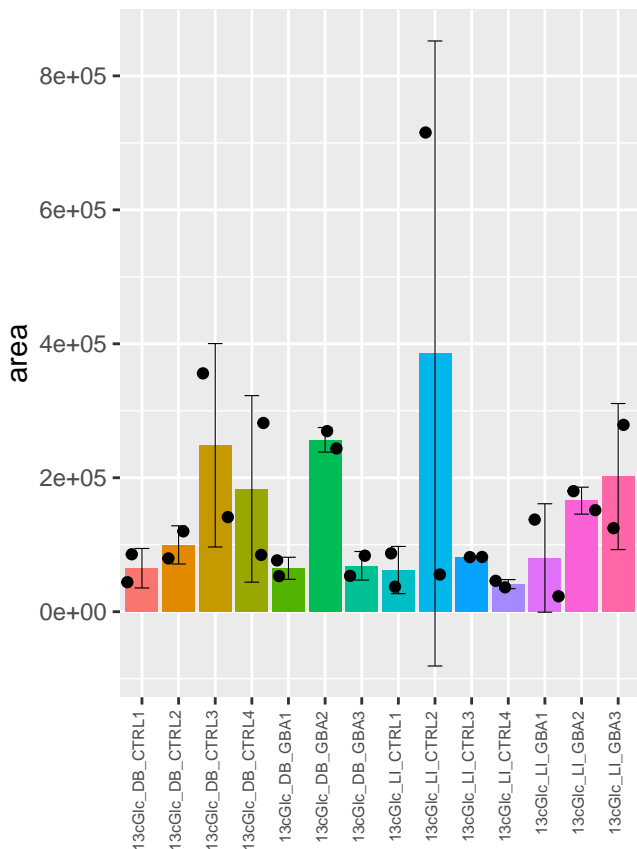
Pyruvate



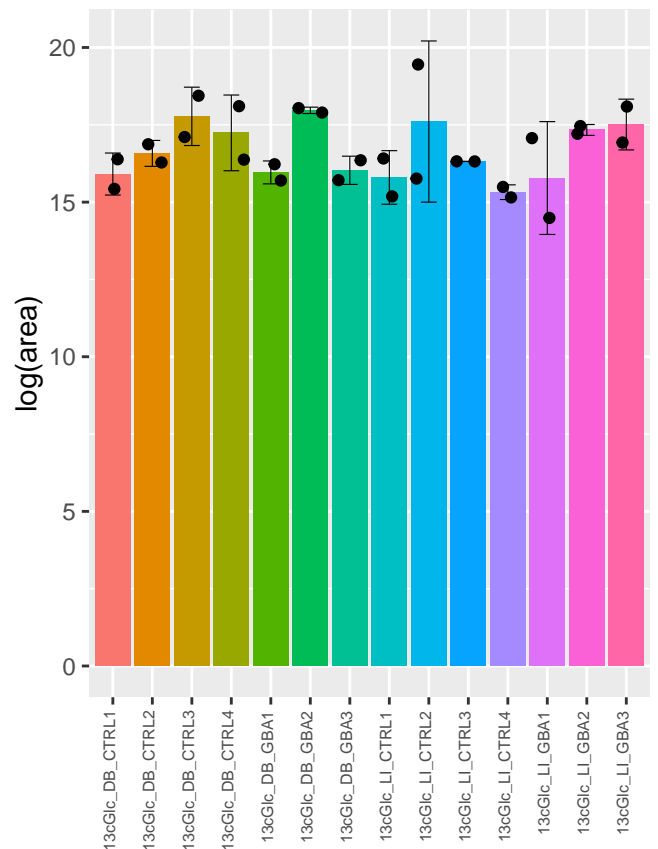
Pyruvate



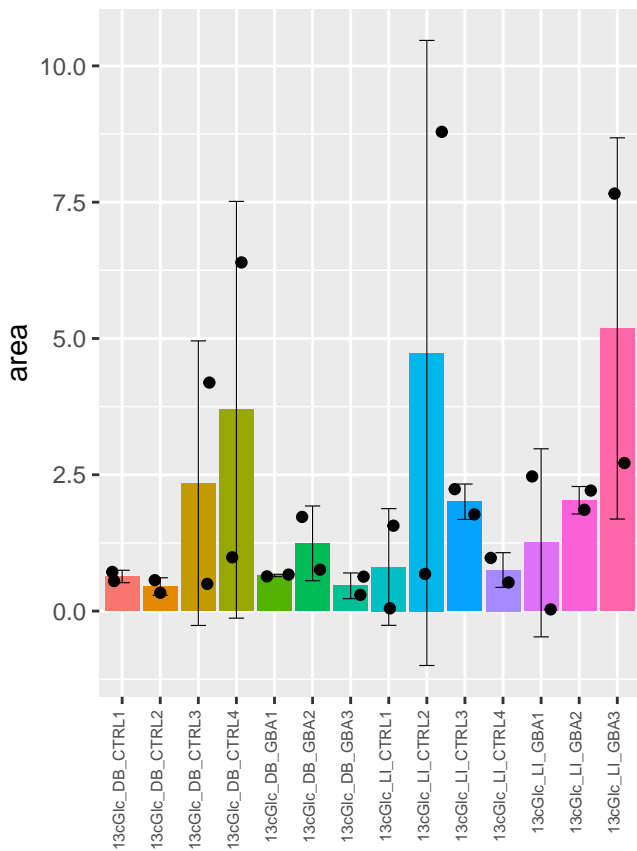
Ribose phosphate



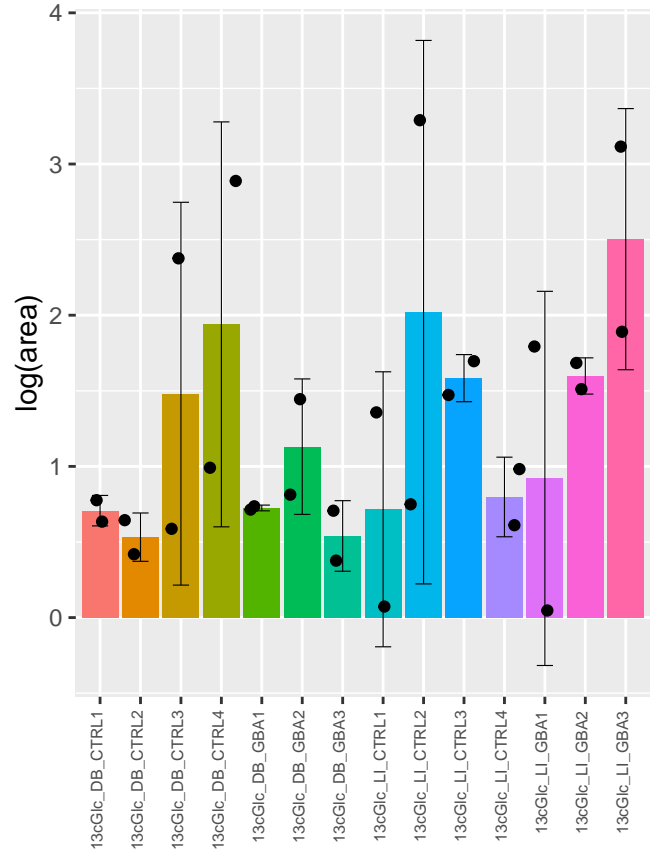
Ribose phosphate



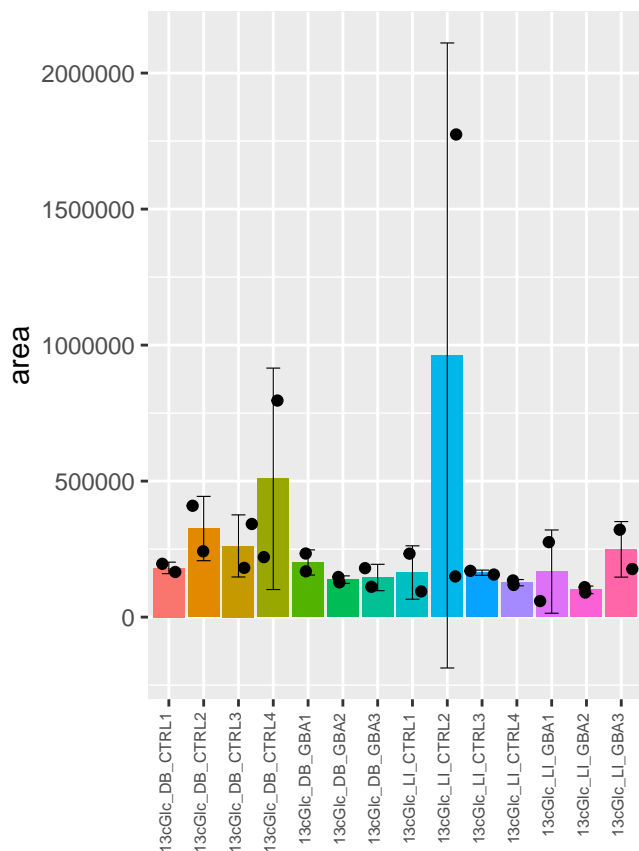
Ribose phosphate



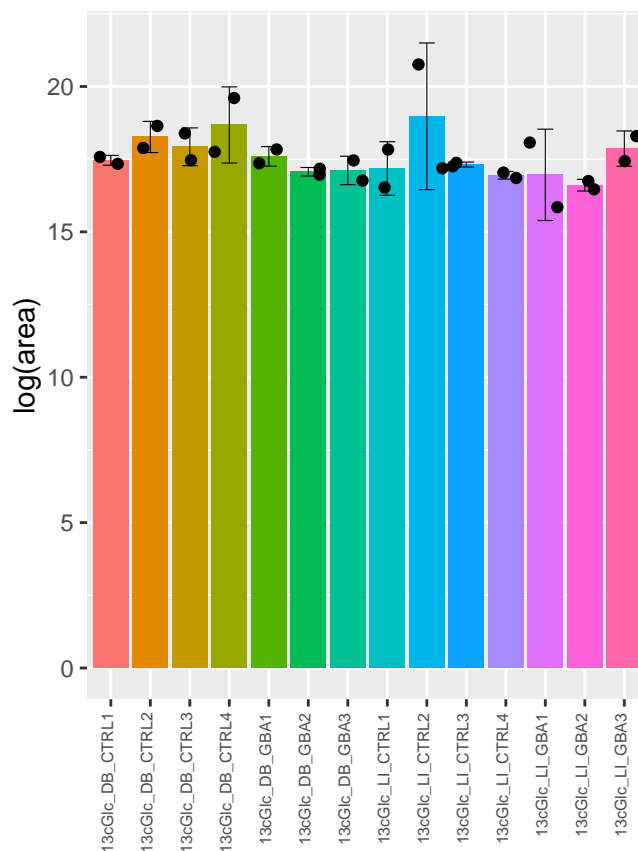
Ribose phosphate



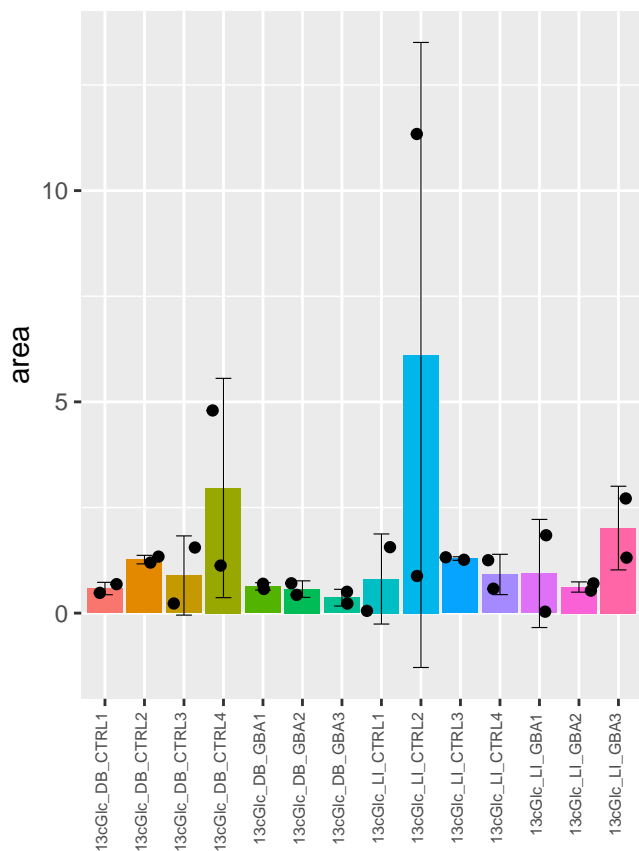
S7P



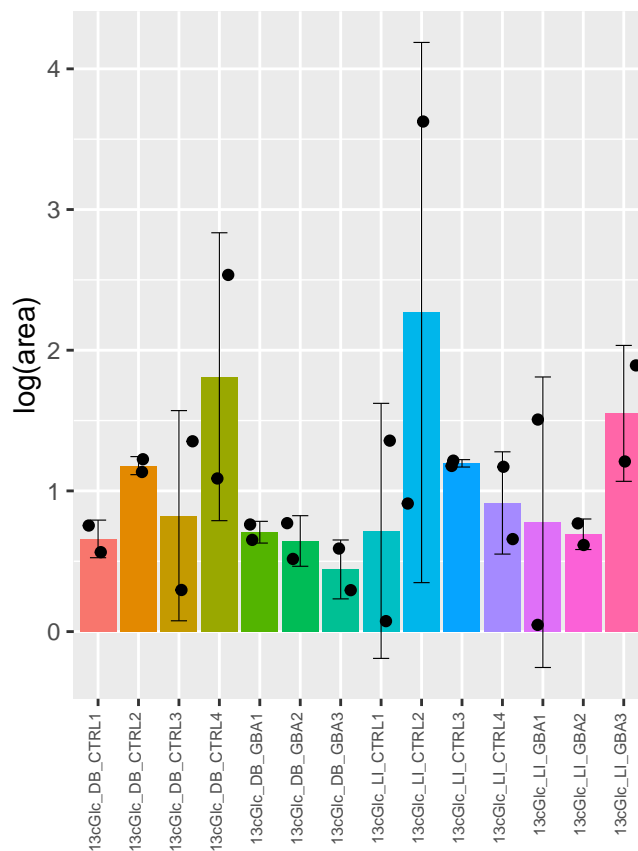
S7P



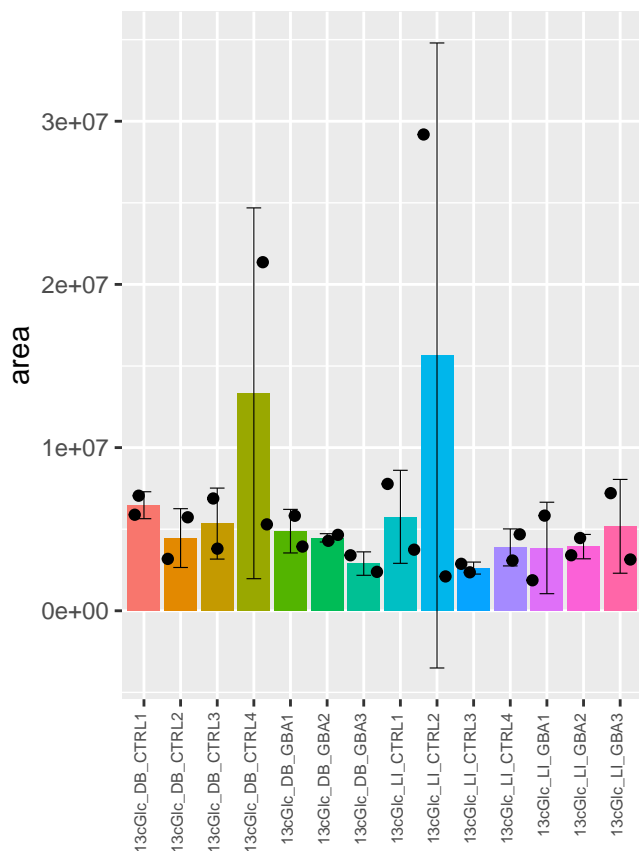
S7P



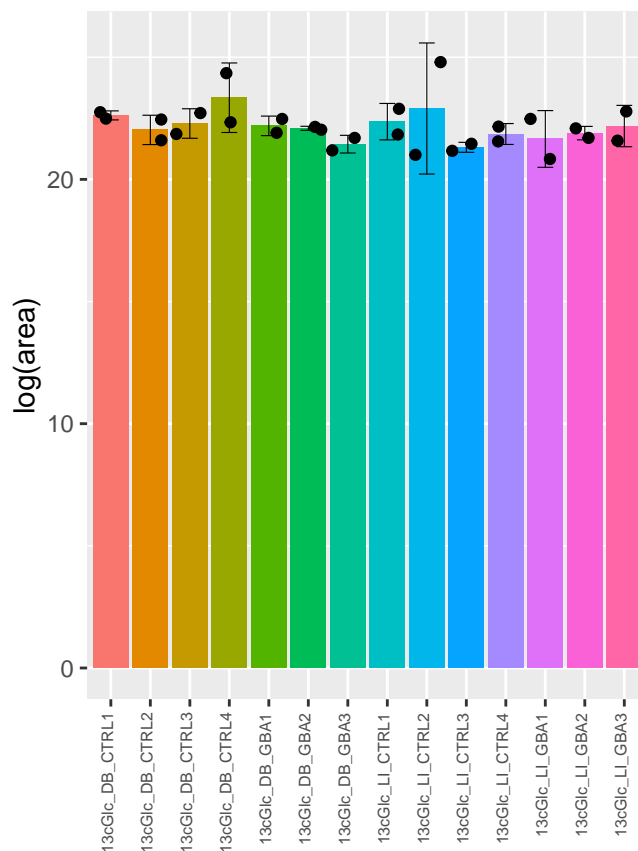
S7P



Serine



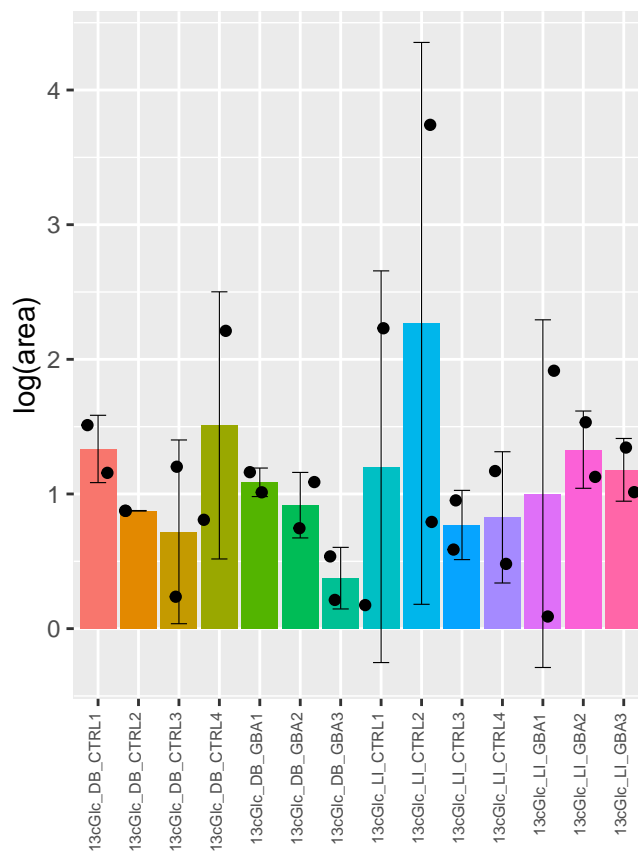
Serine



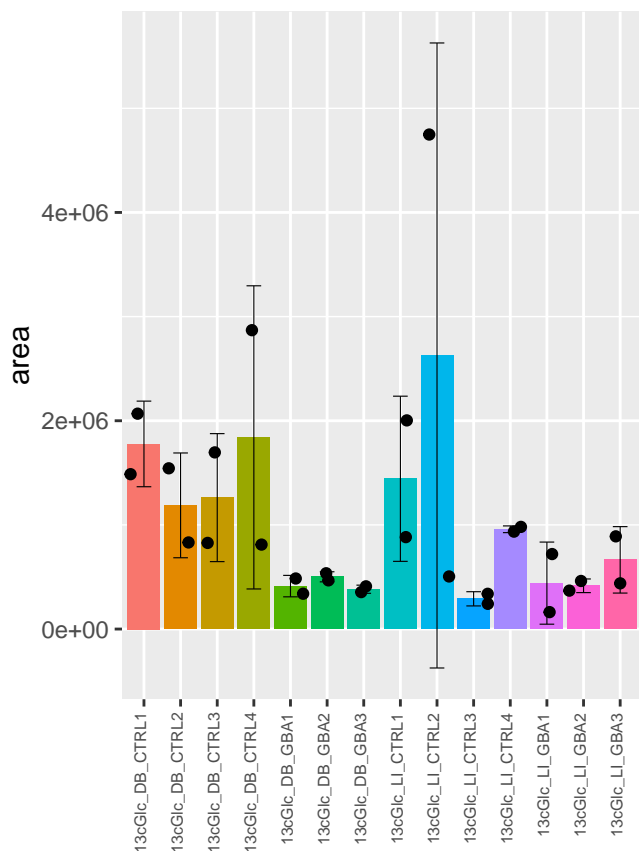
Serine



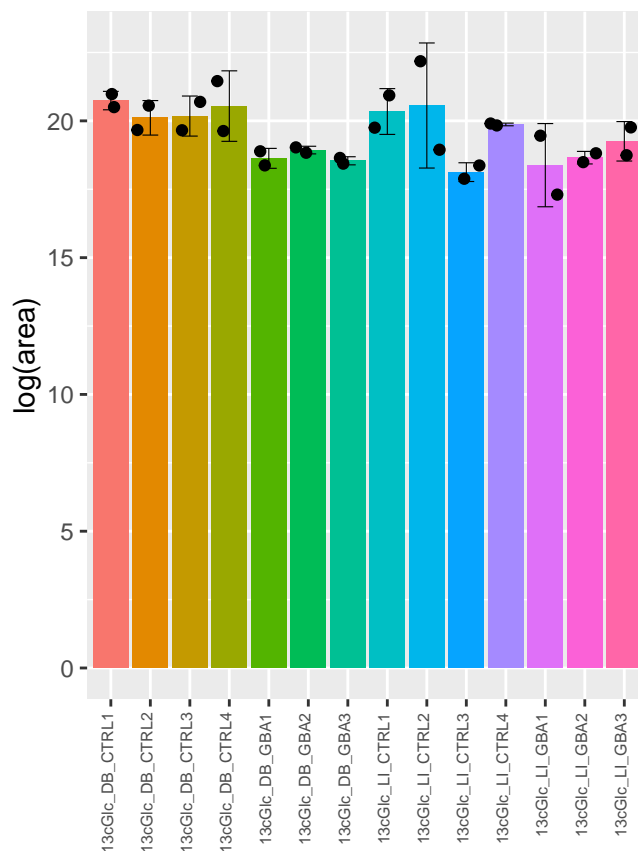
Serine



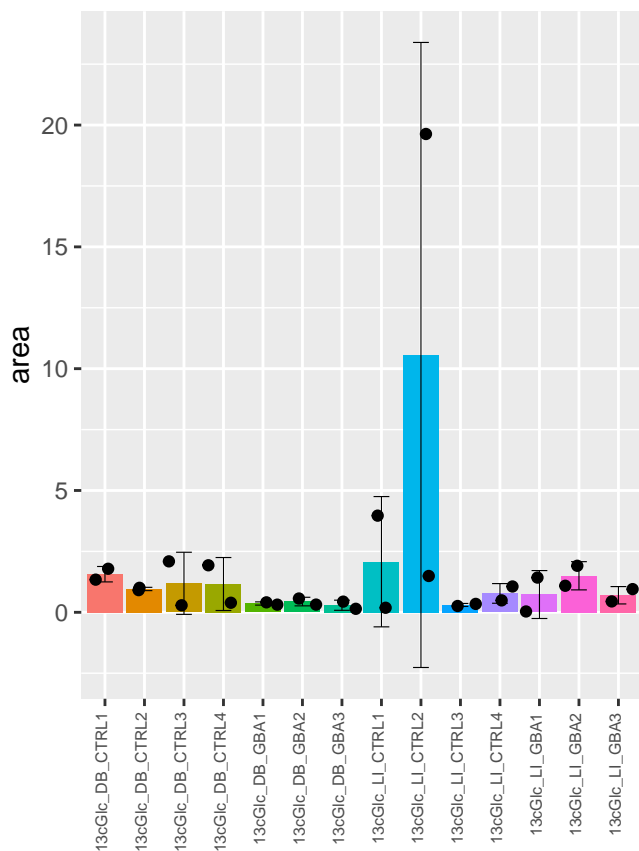
Succinic acid



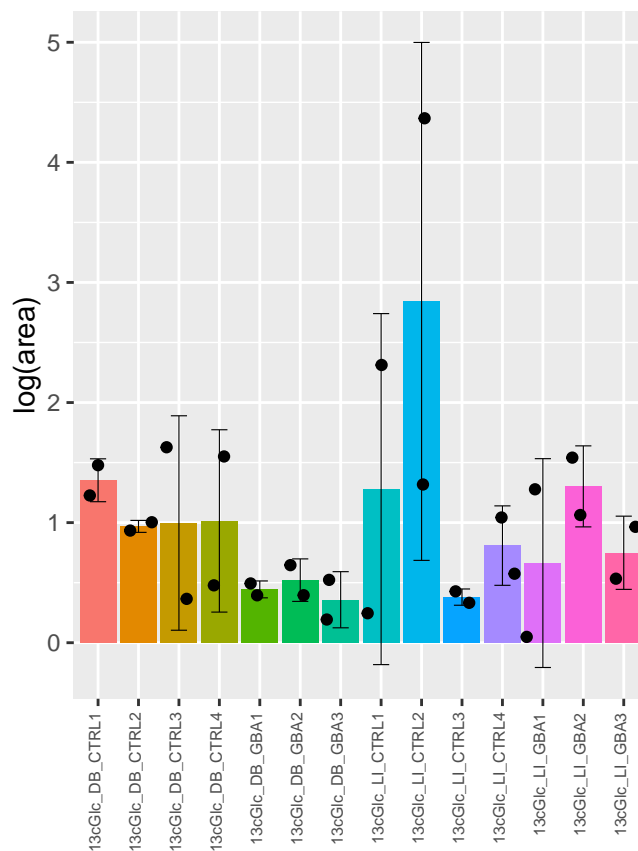
Succinic acid



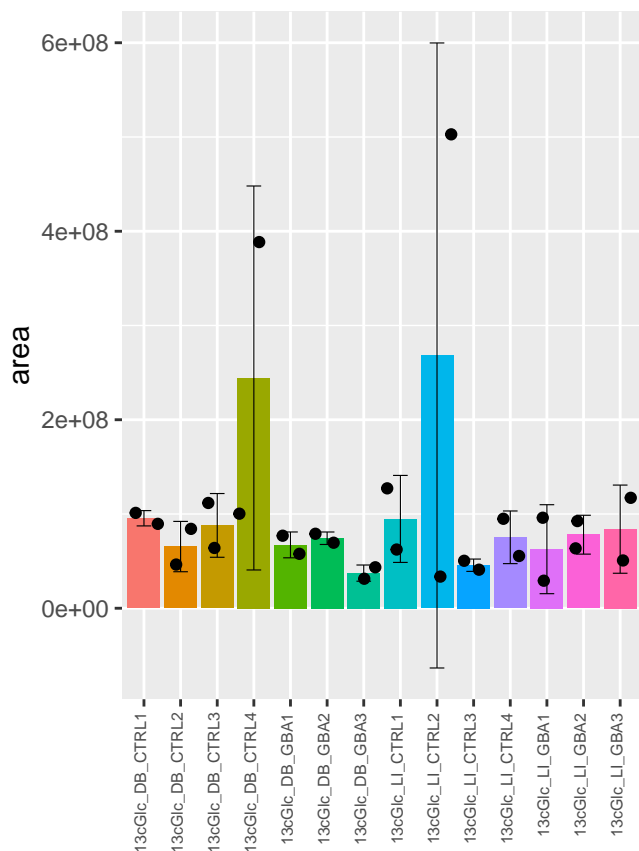
Succinic acid



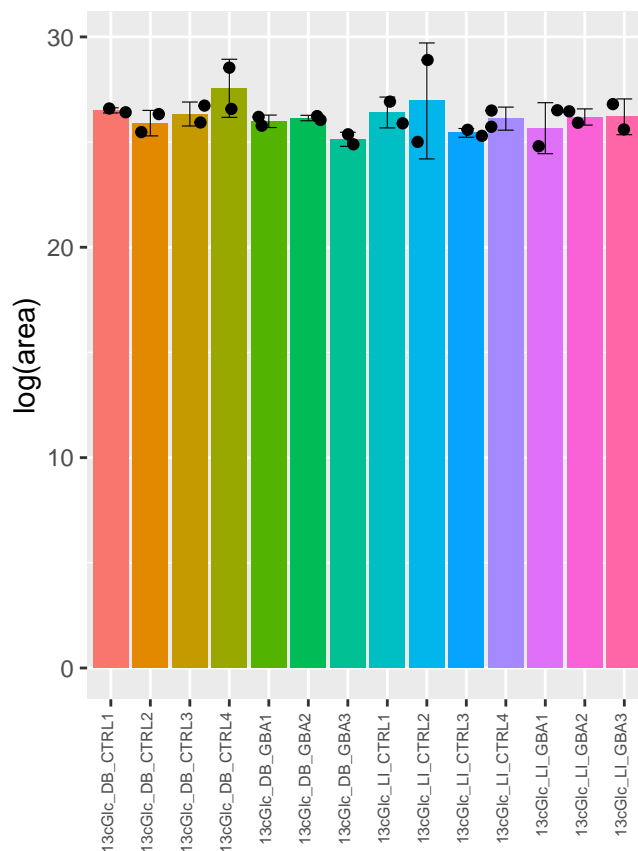
Succinic acid



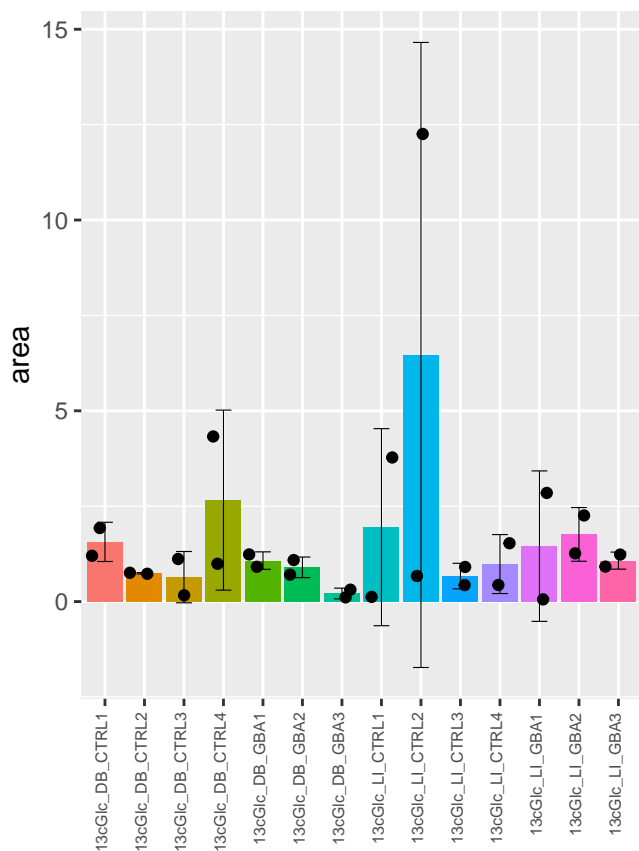
threonine



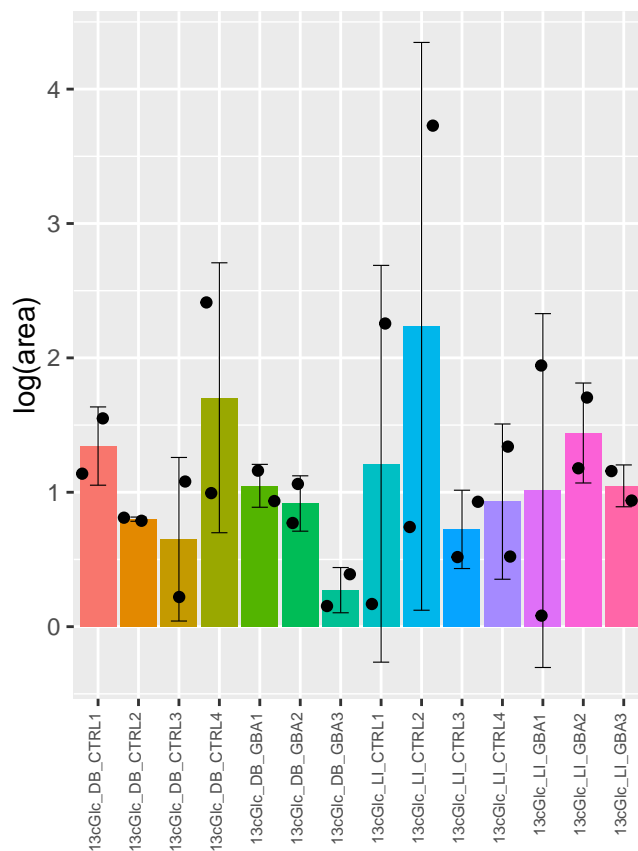
threonine

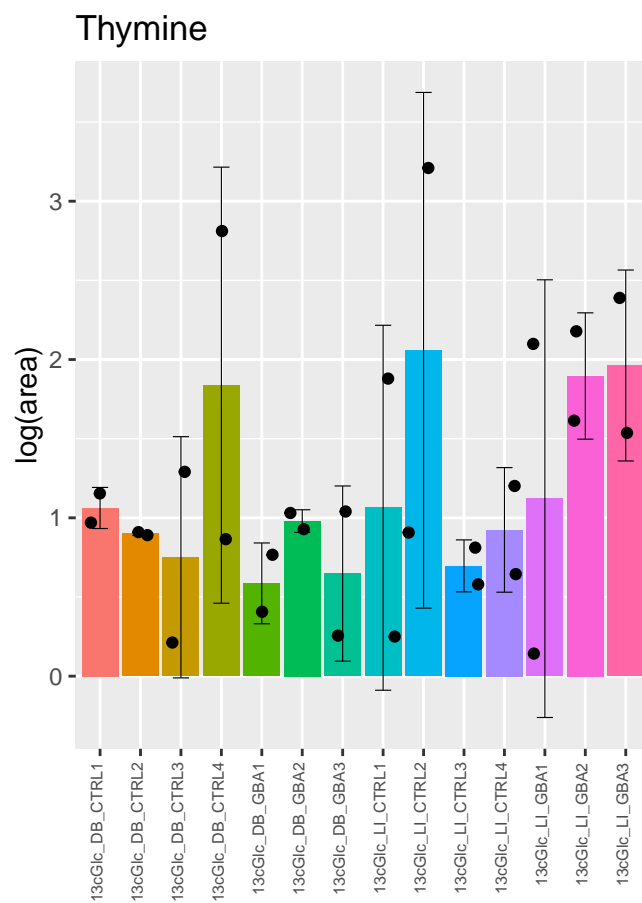
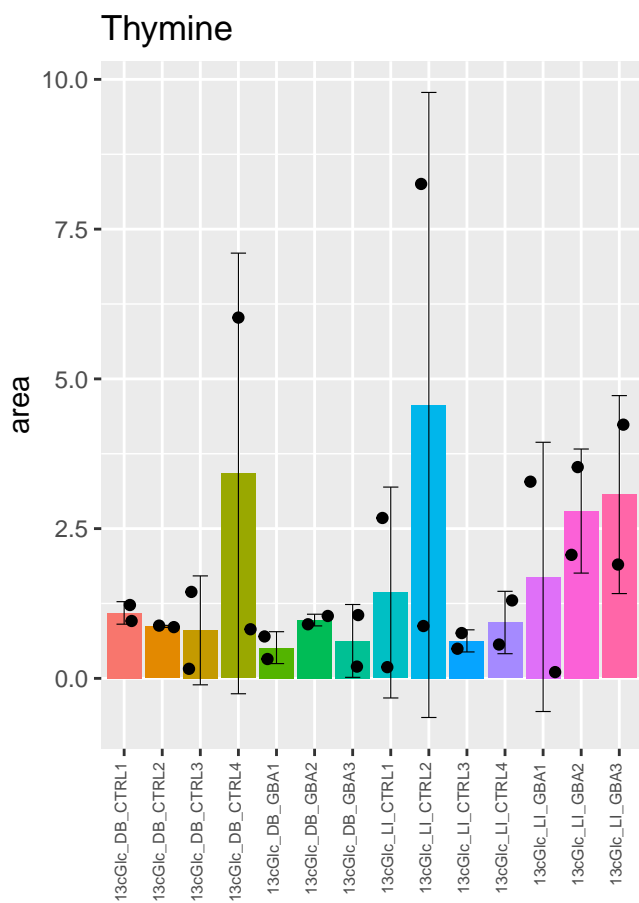
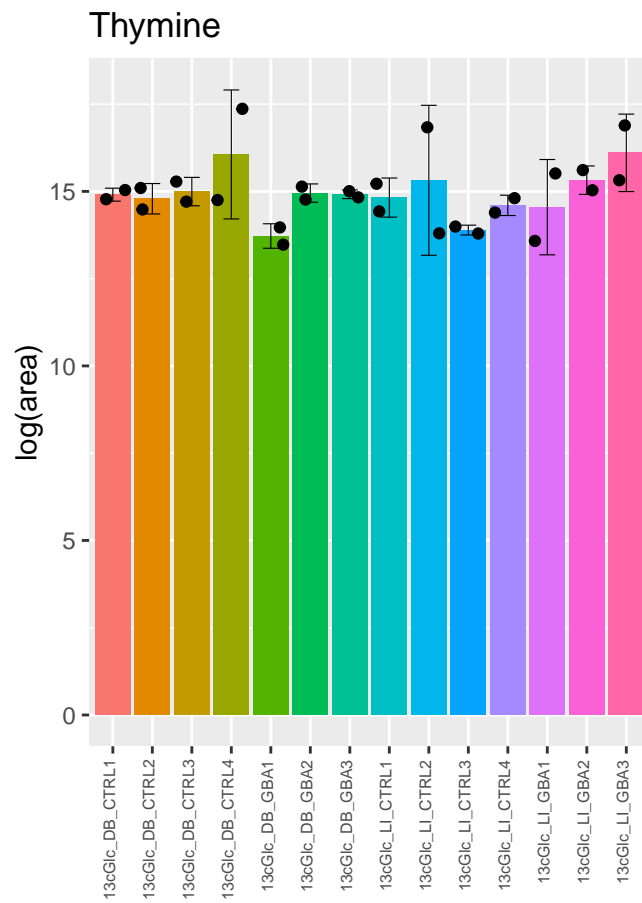
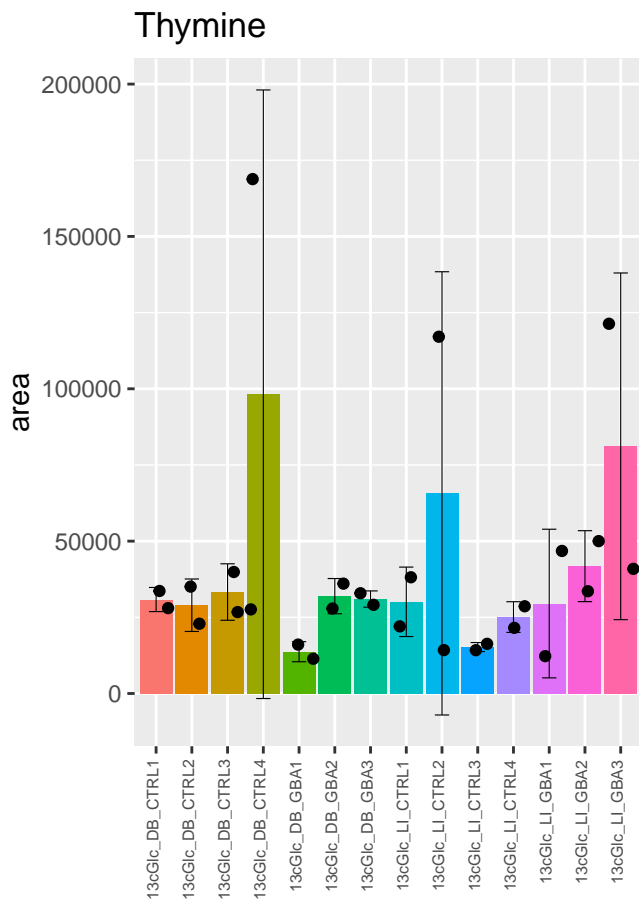


threonine

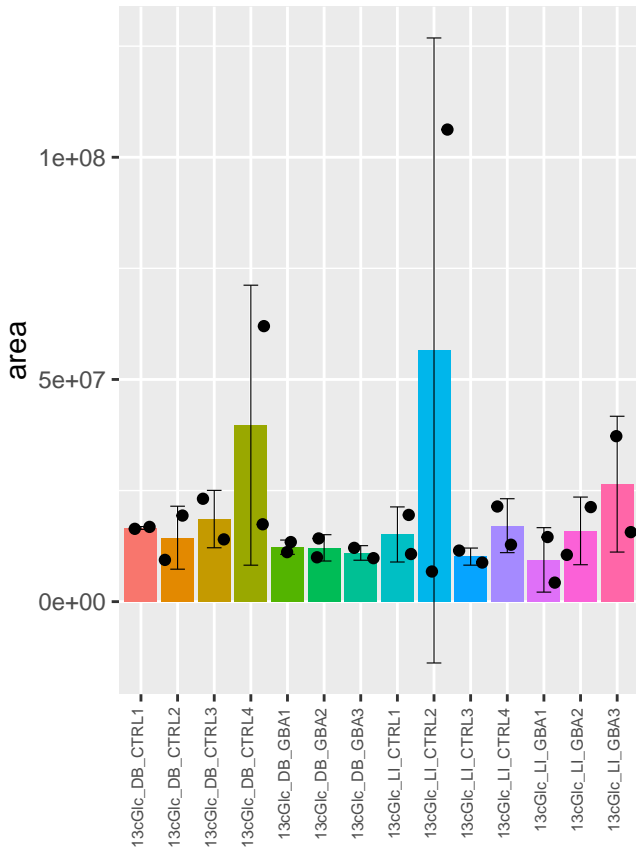


threonine

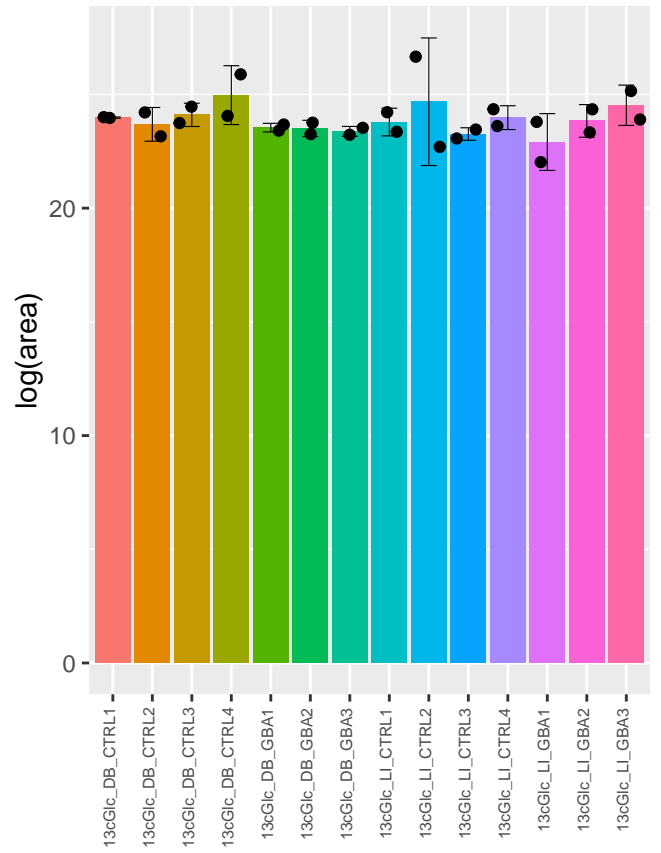




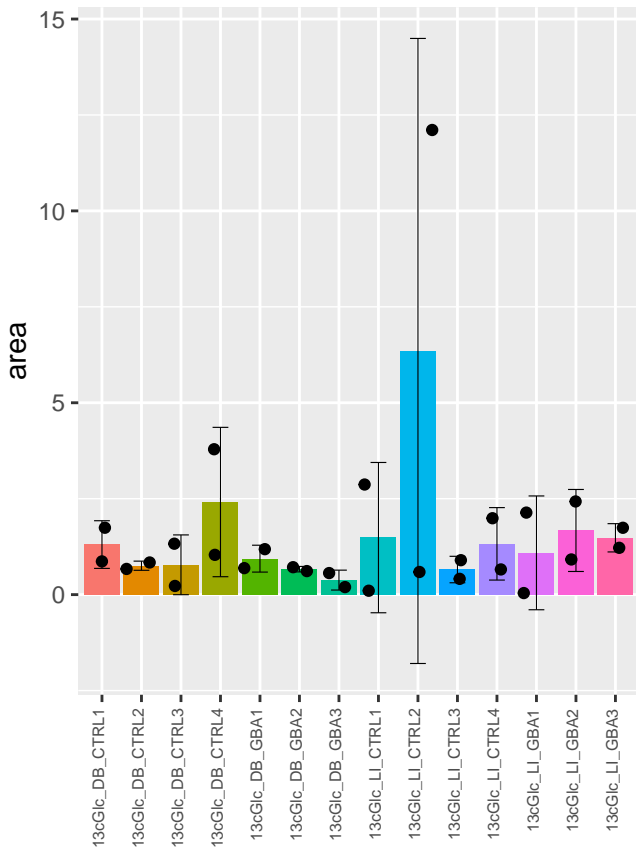
tryptophan



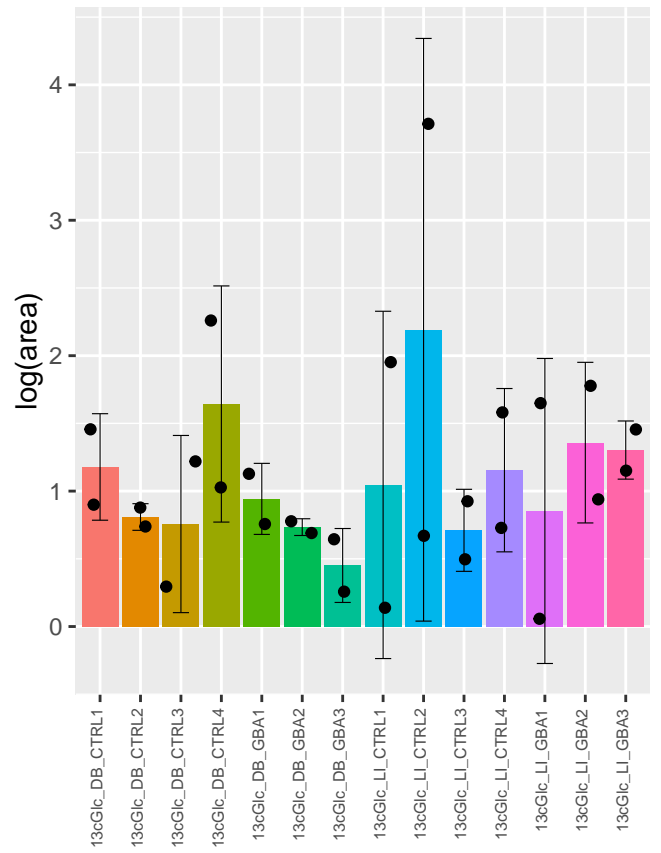
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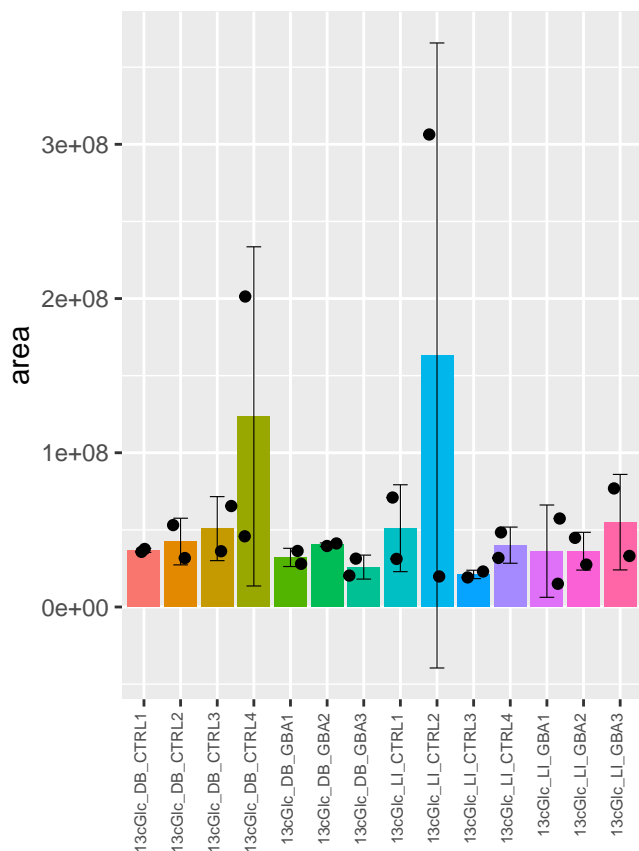
tryptophan



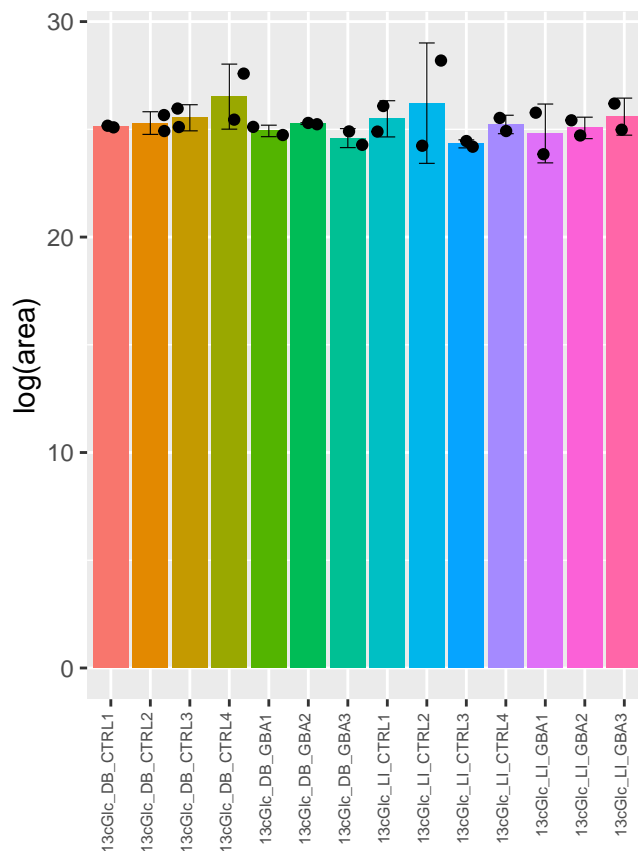
tryptophan



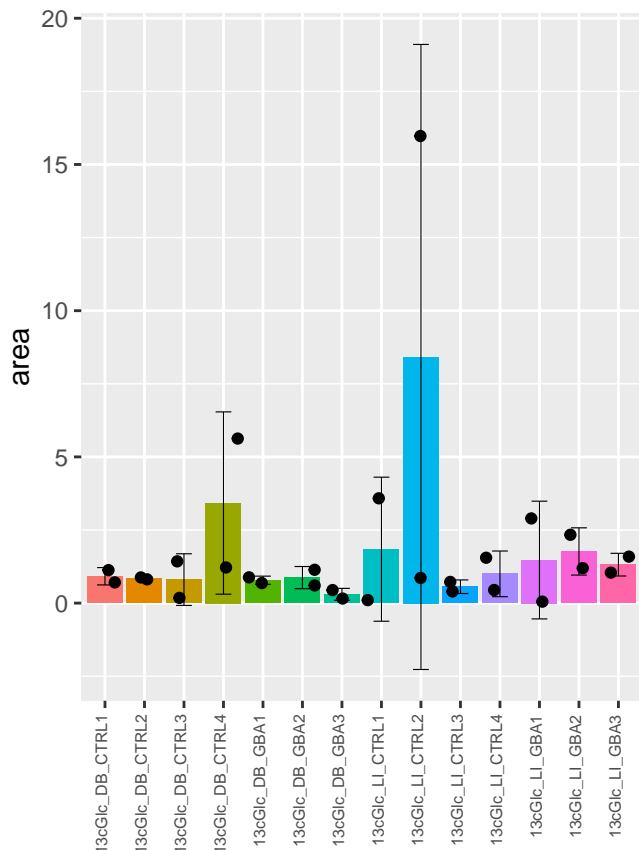
Tyrosine



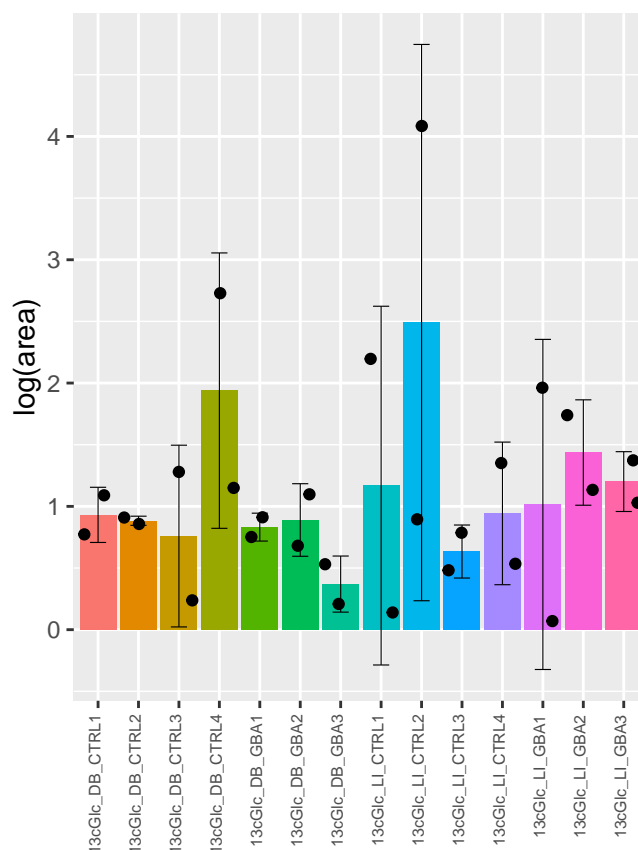
Tyrosine

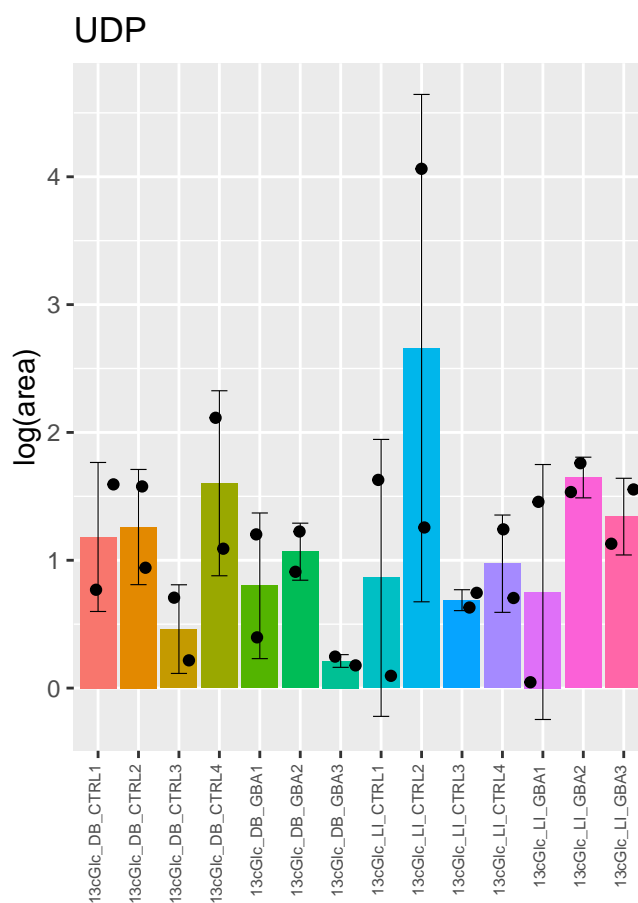
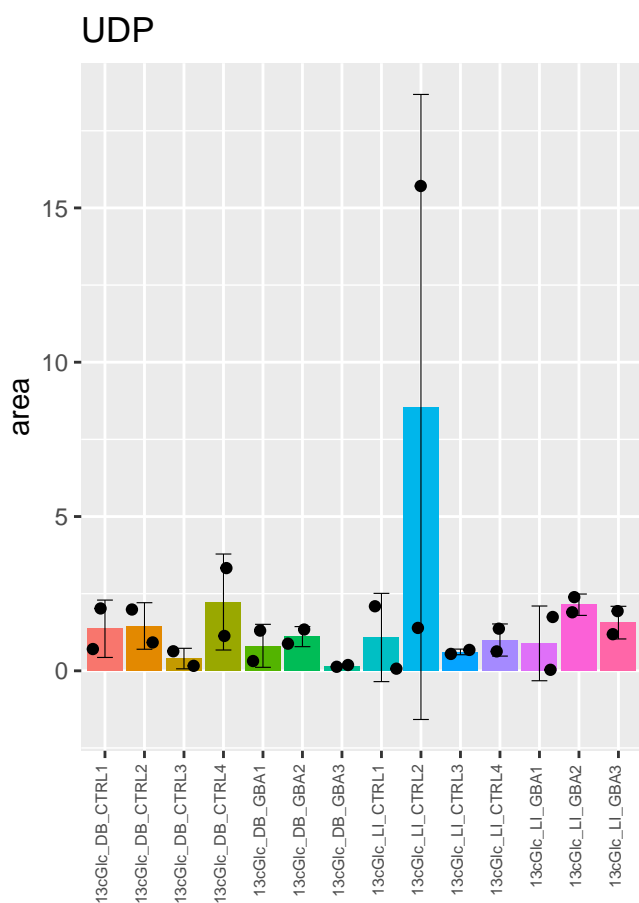
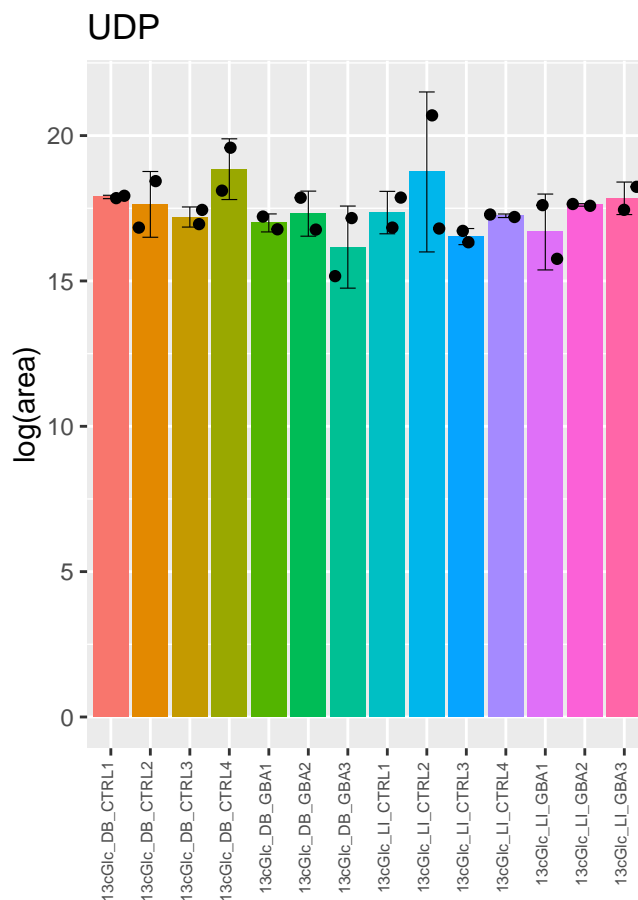
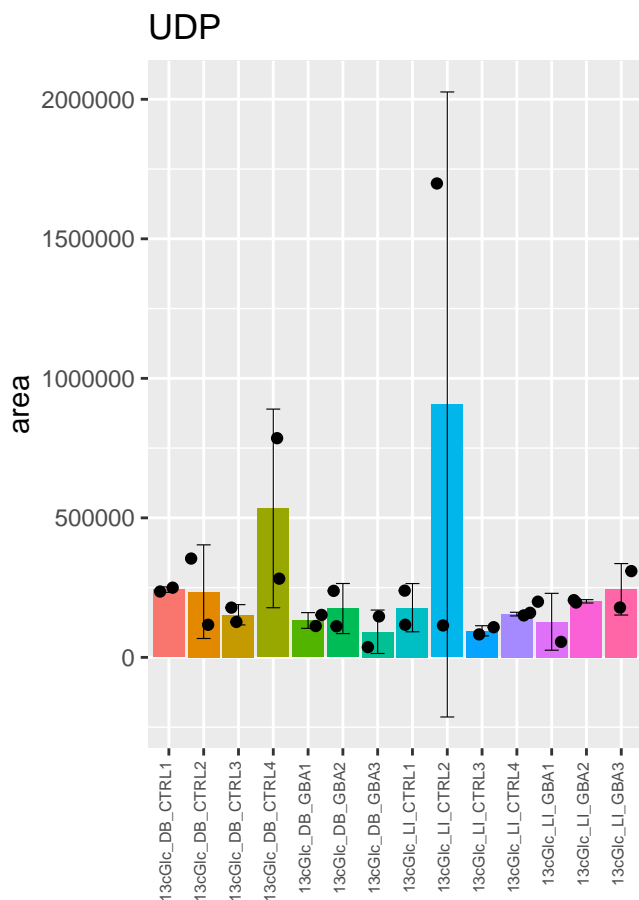


Tyrosine

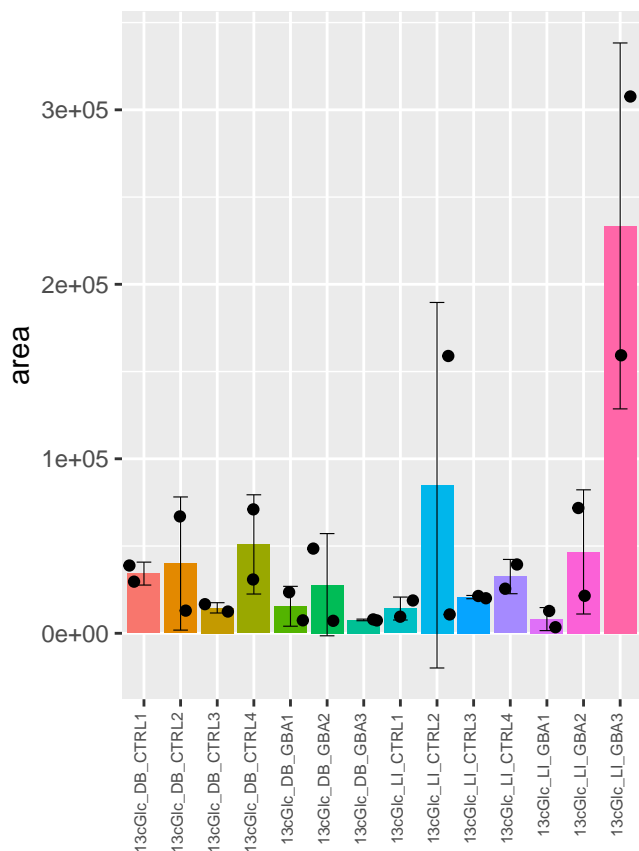


Tyrosine

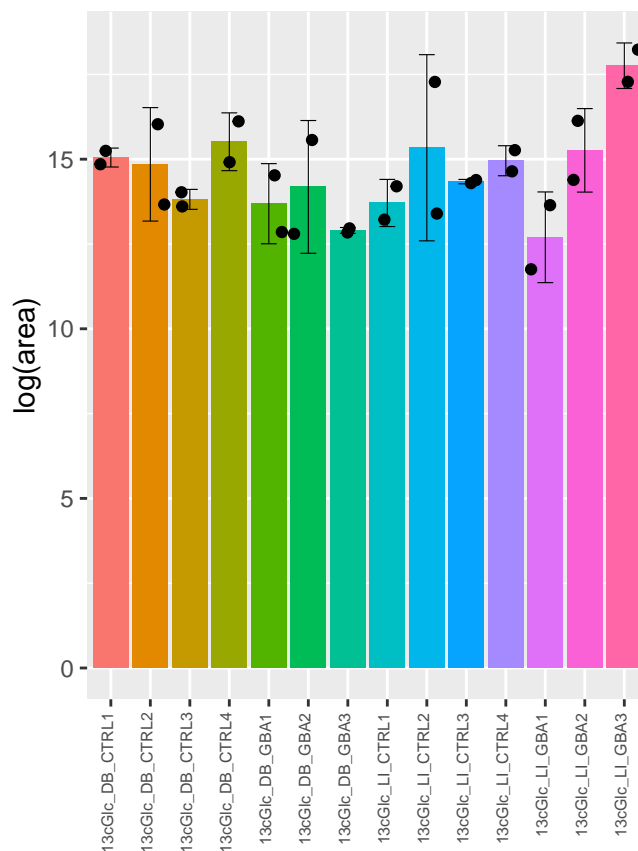




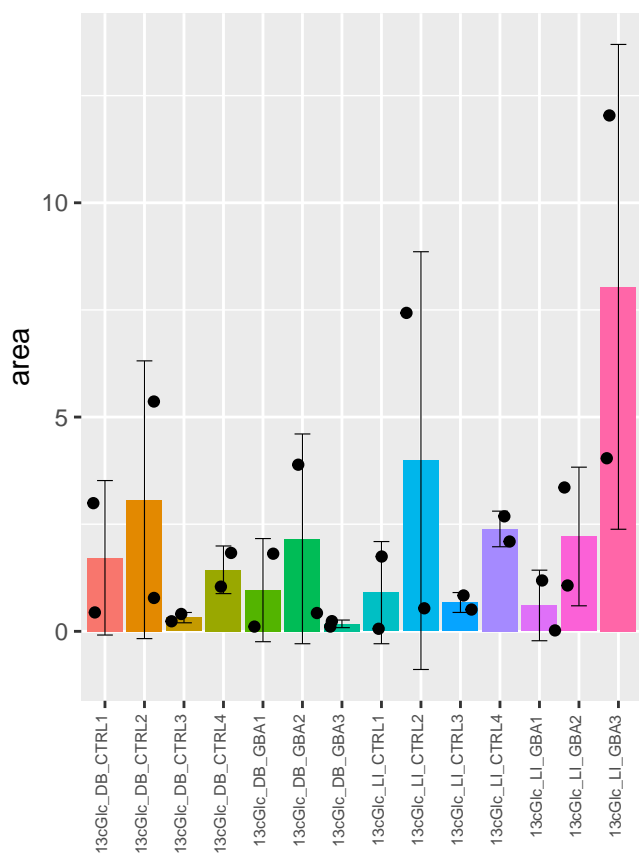
UMP



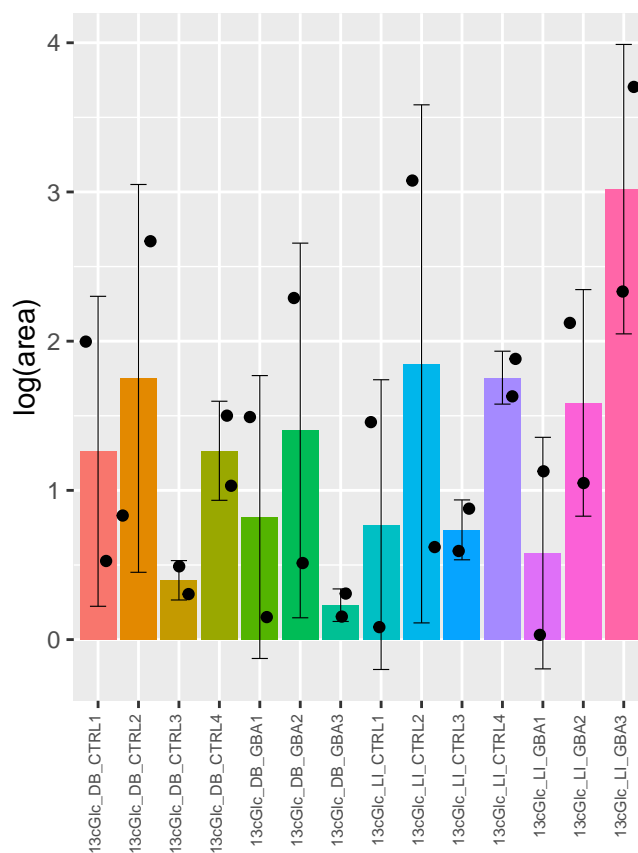
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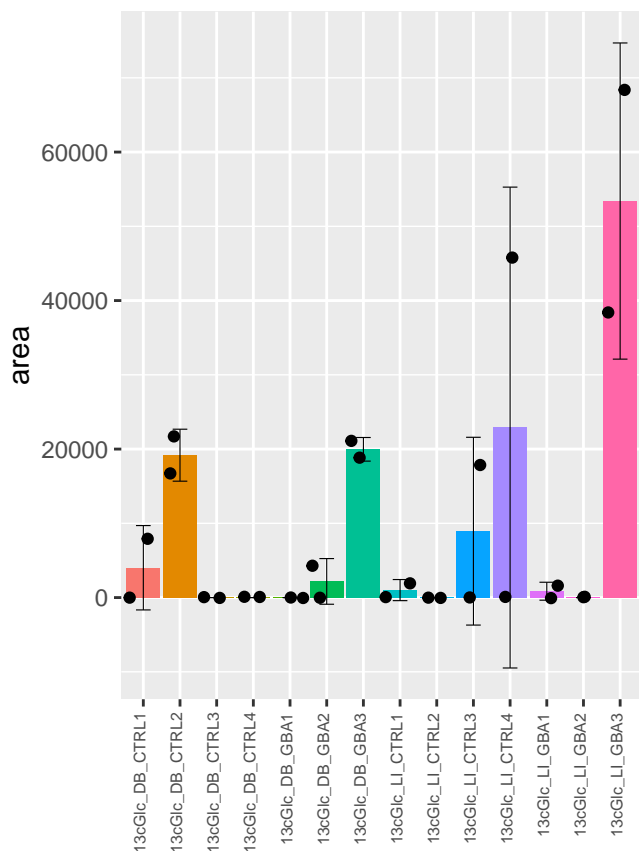
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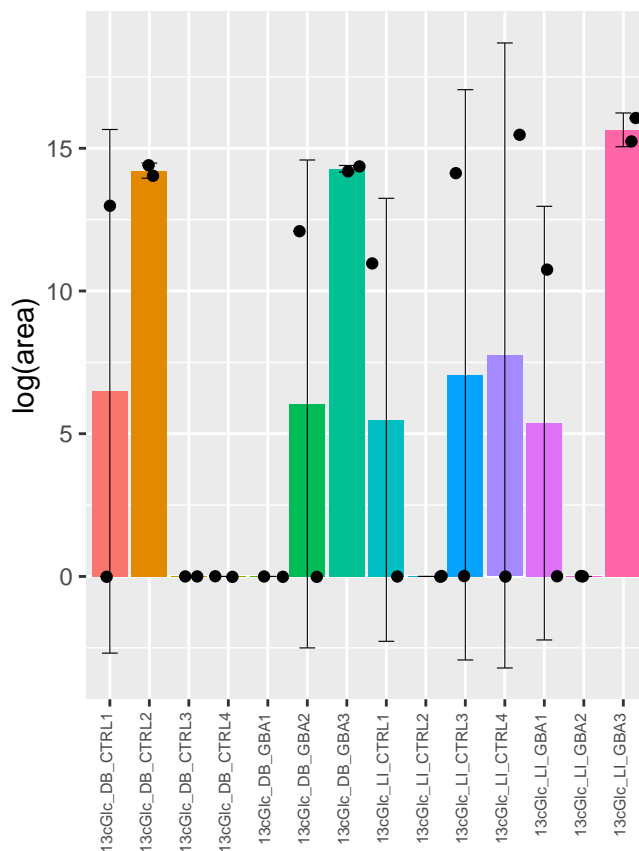
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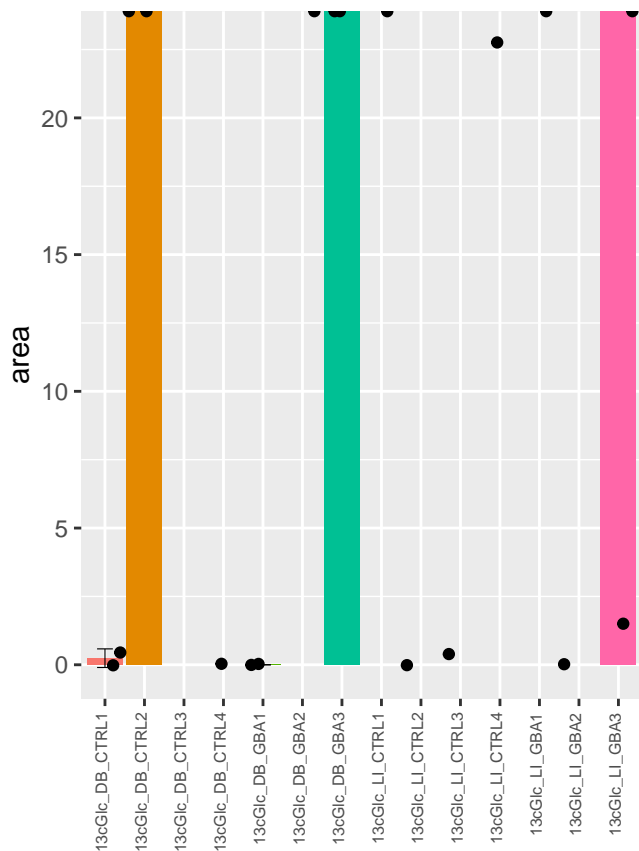
Uracil



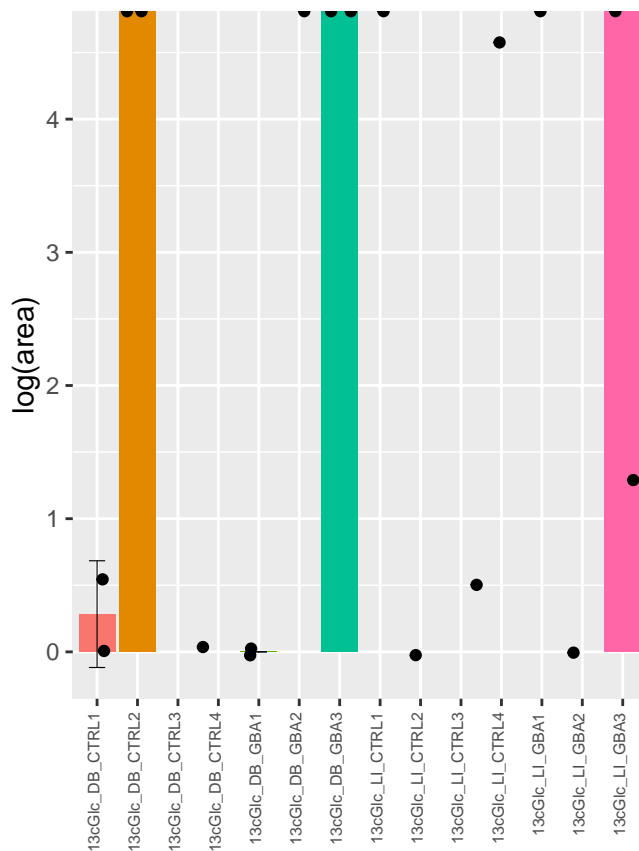
Uracil



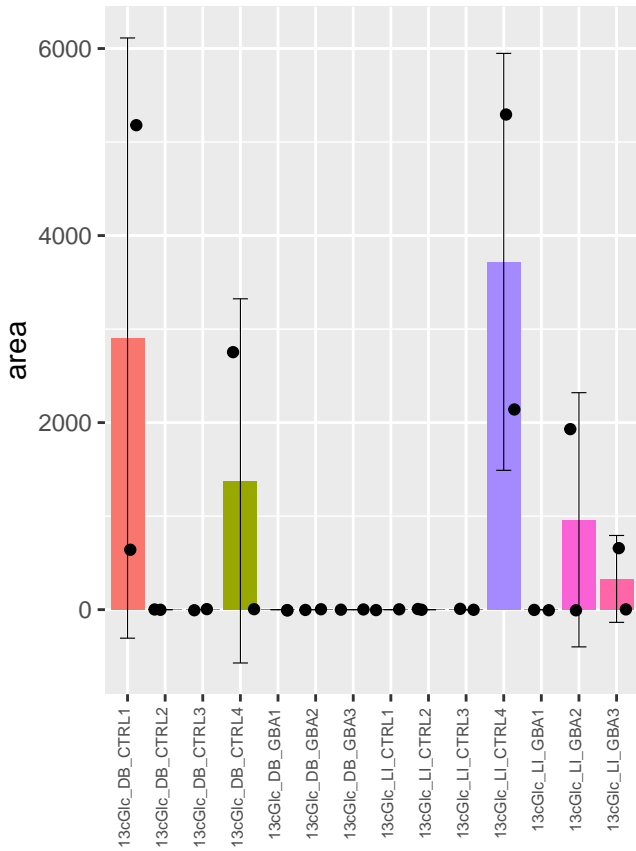
Uracil



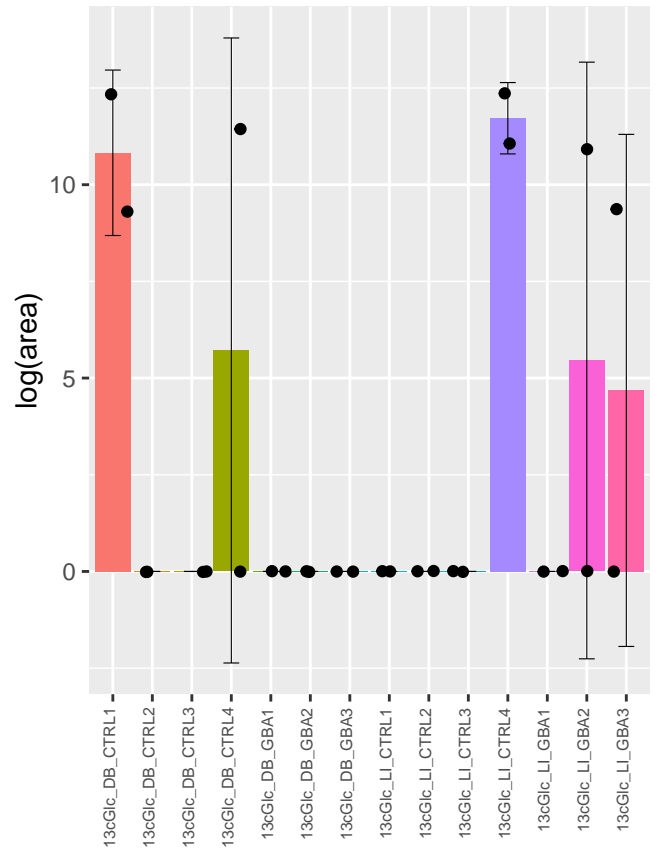
Uracil



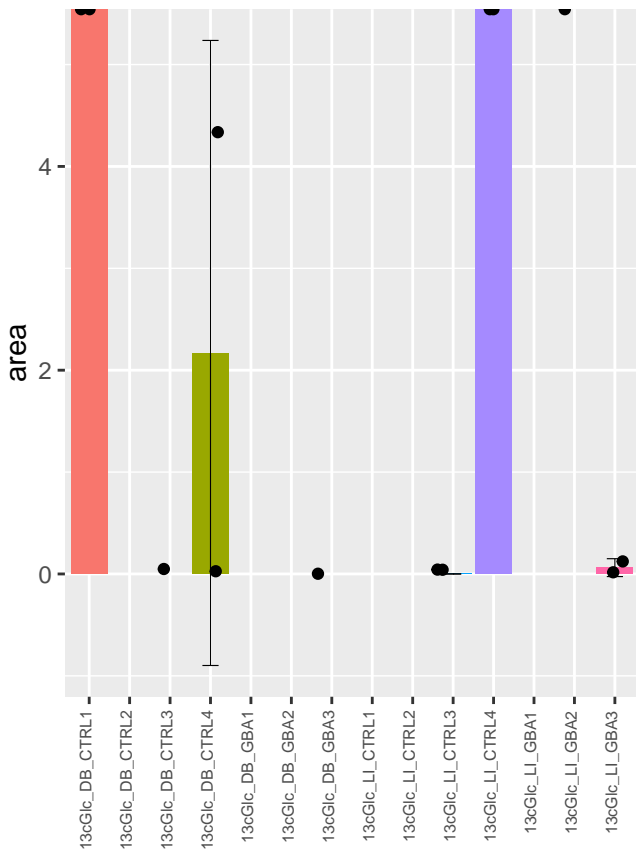
Uric acid



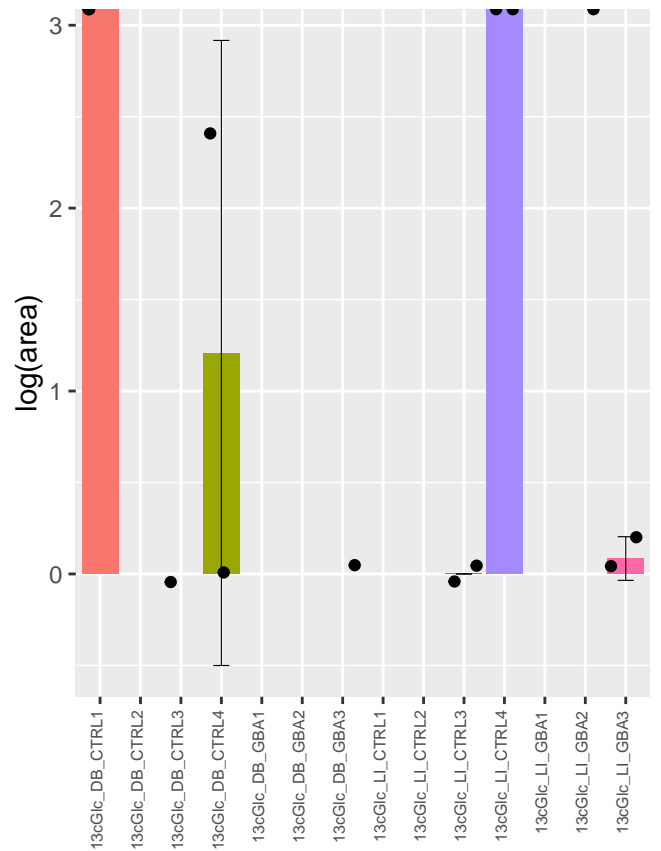
Uric acid



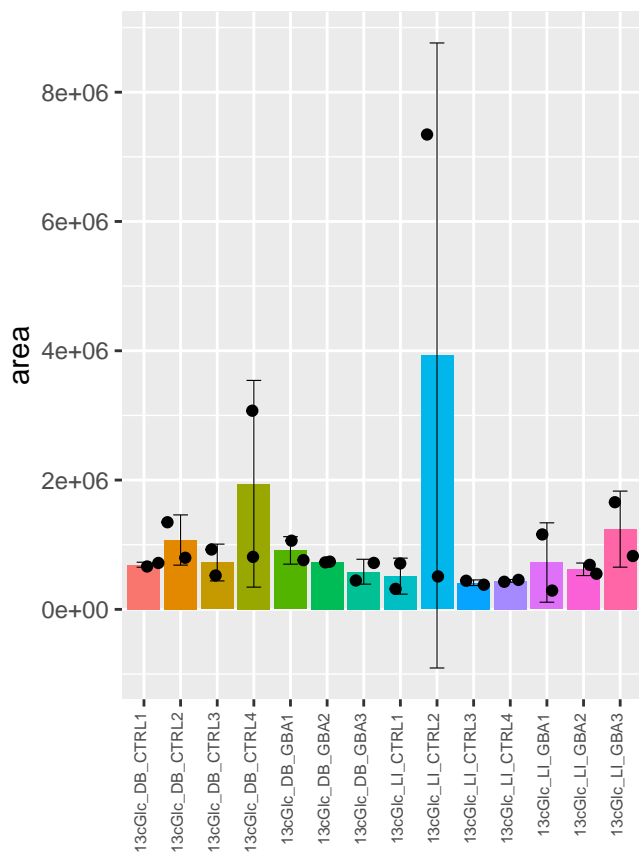
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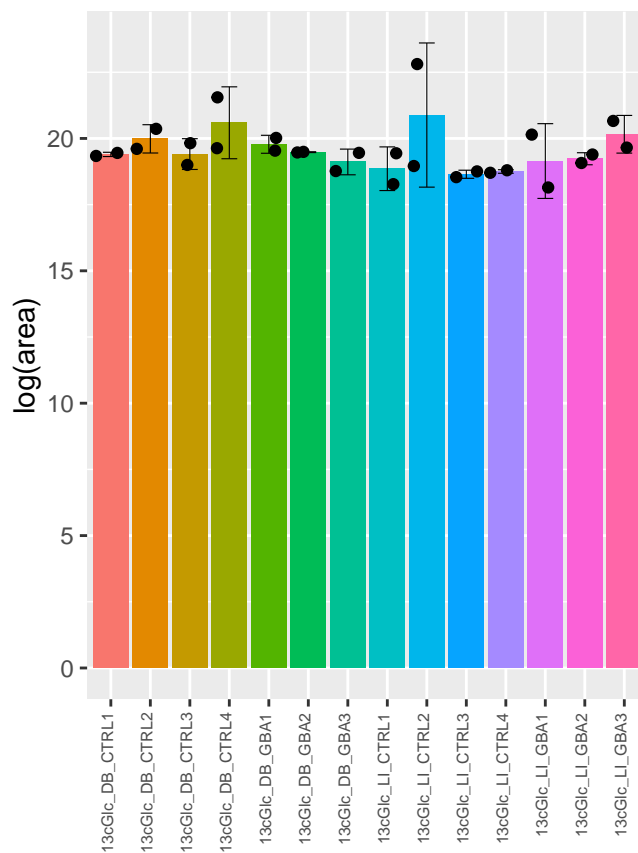
Uric acid



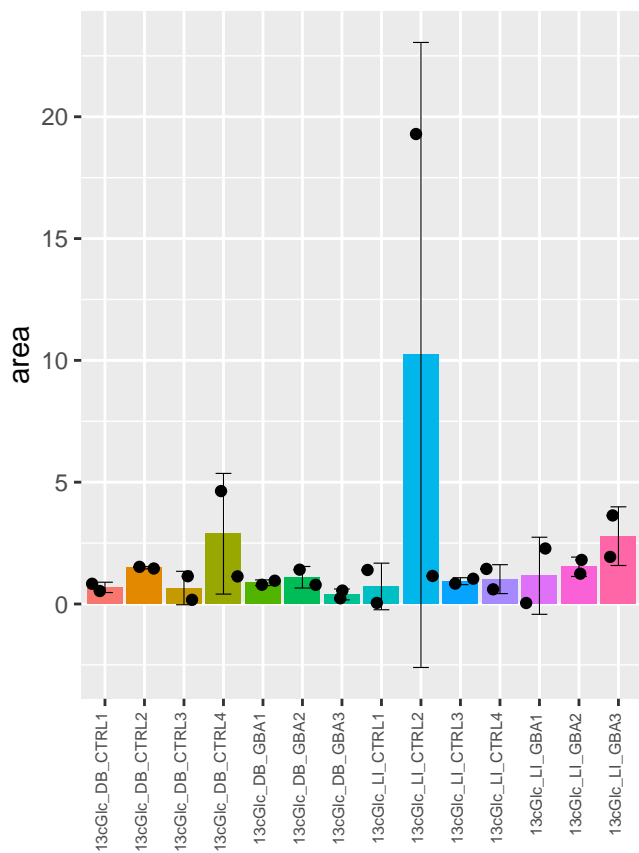
Uridine diphosphategalactose



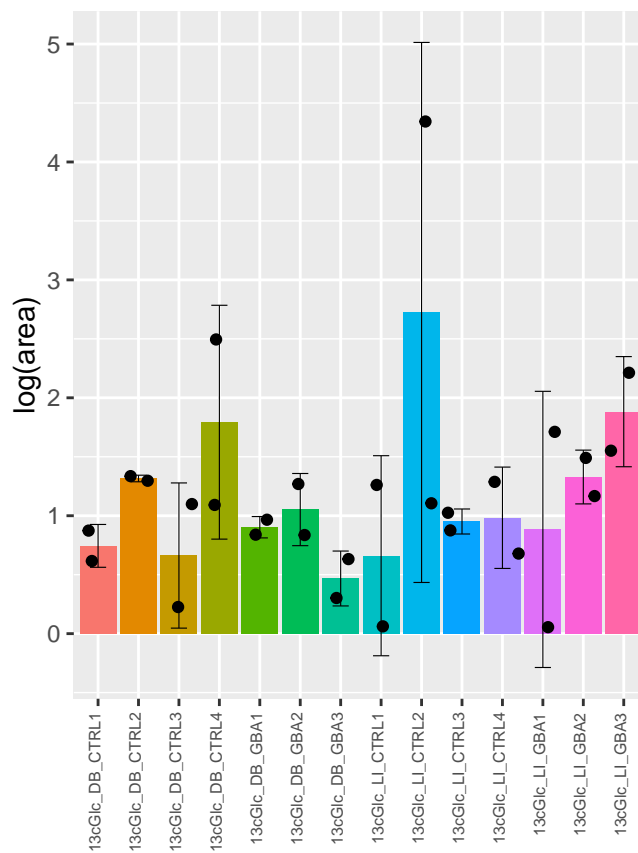
Uridine diphosphategalactose



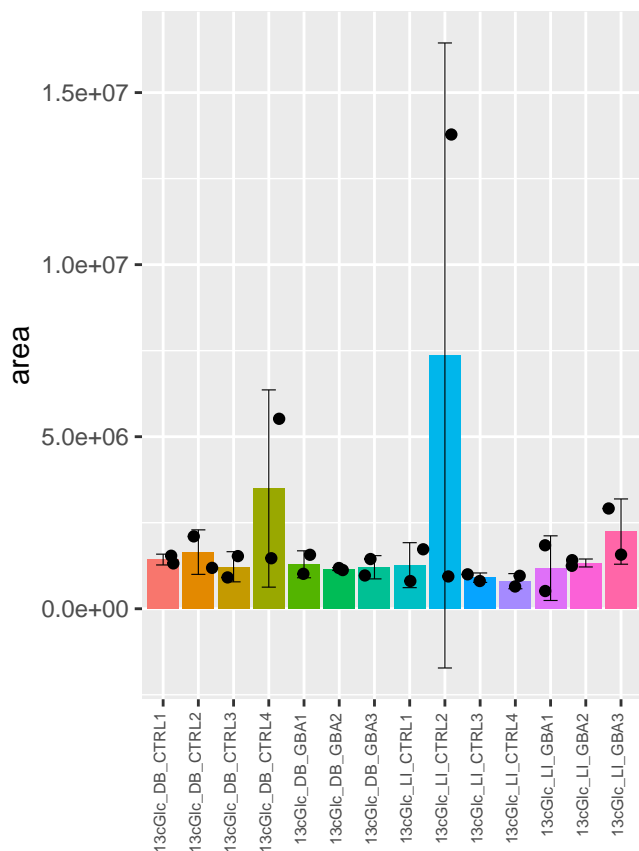
Uridine diphosphategalactose



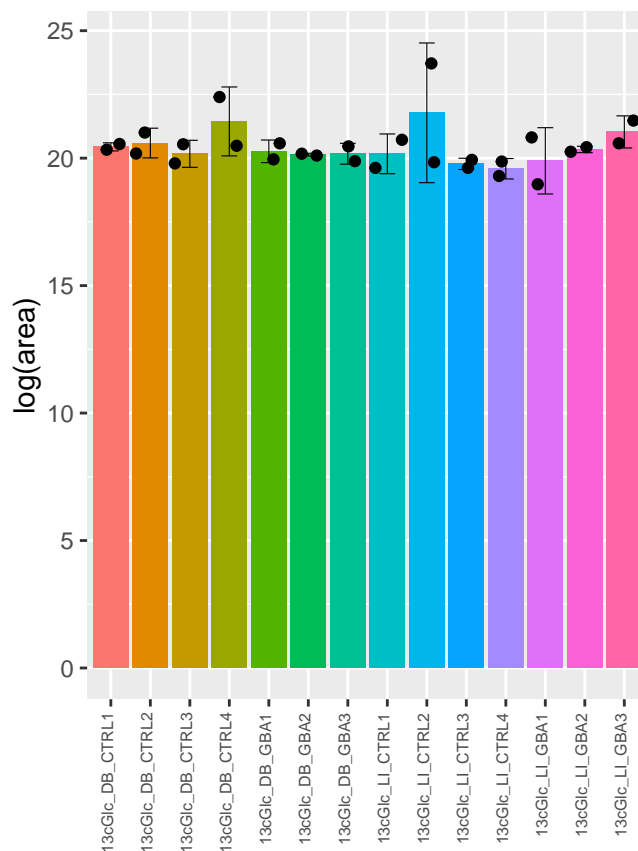
Uridine diphosphategalactose



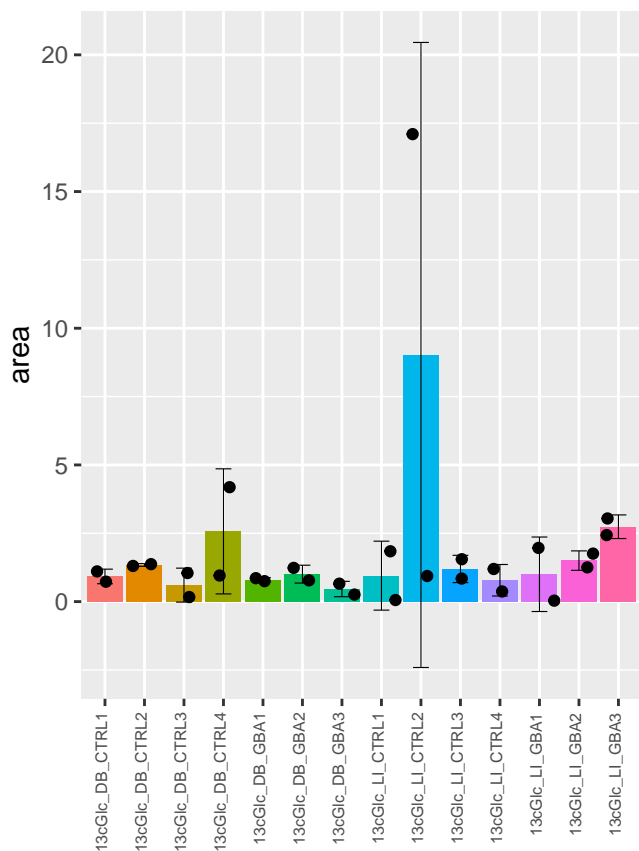
UTP



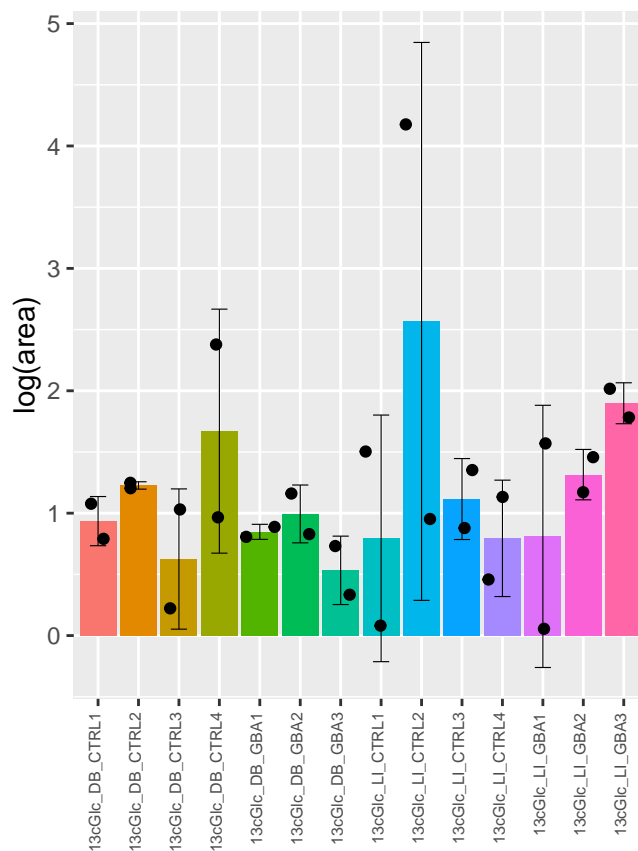
UTP



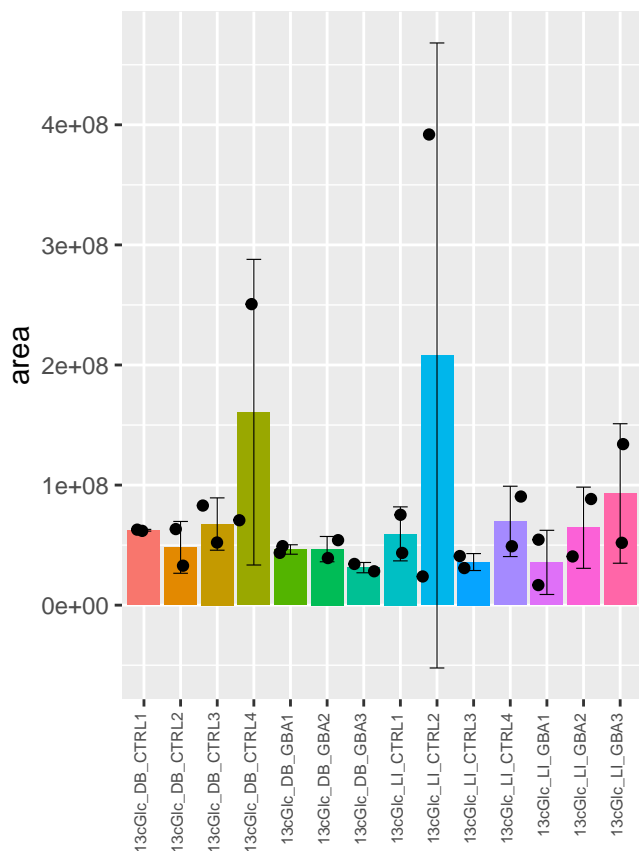
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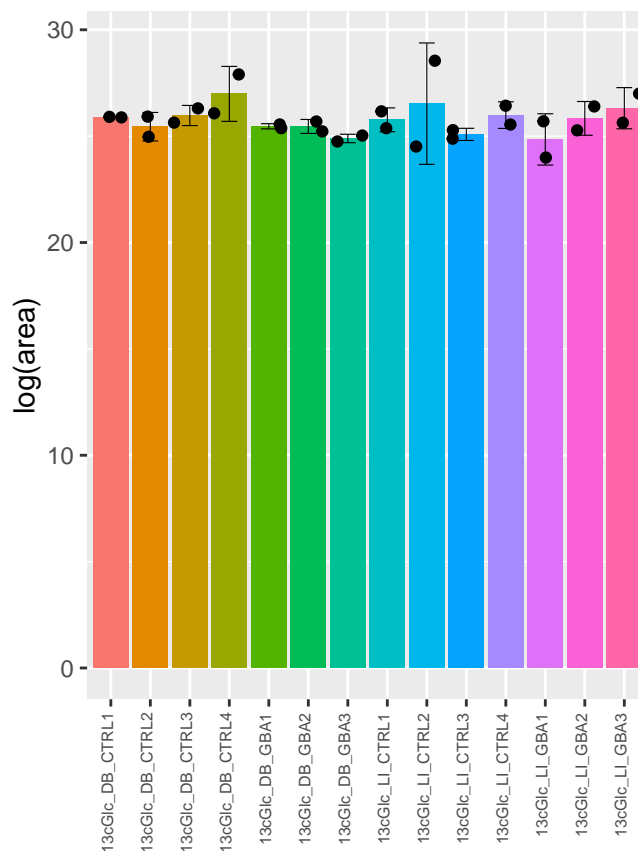
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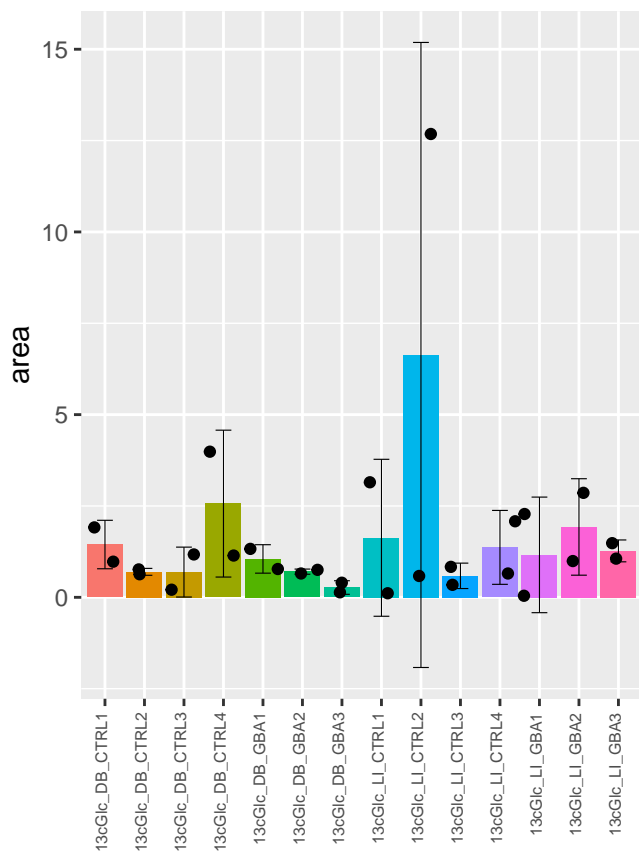
Valine



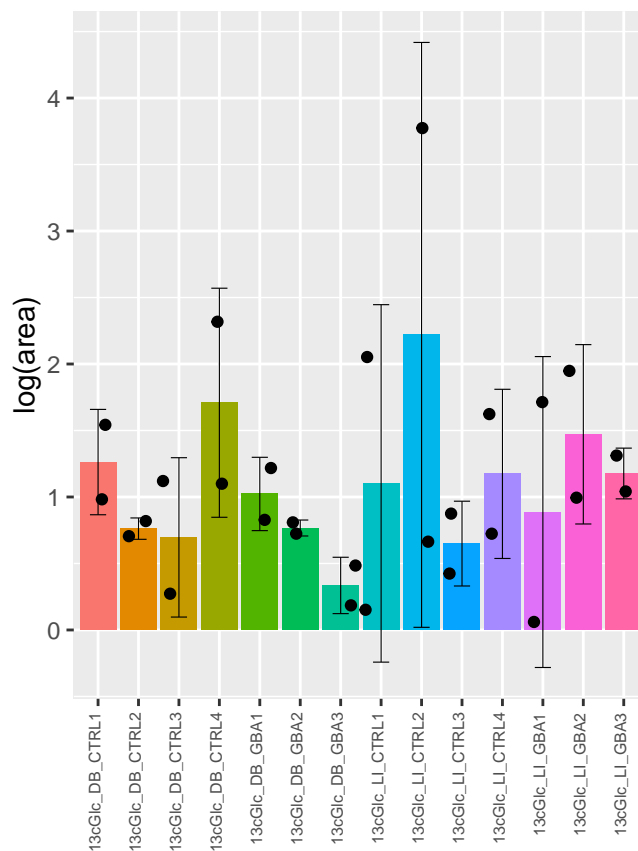
Valine



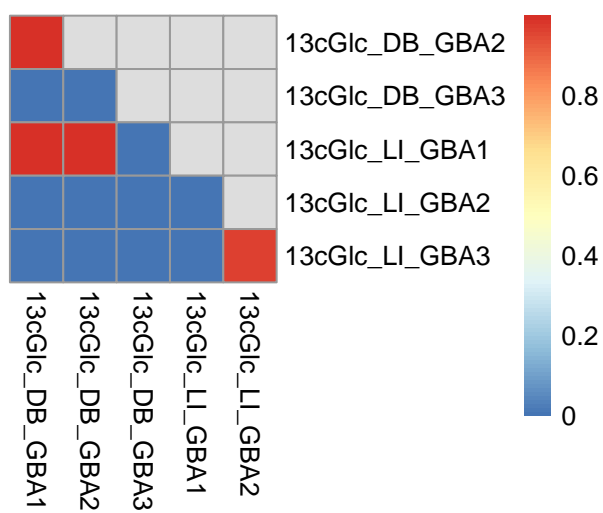
Valine



Valine



adj.p Hukey HSD



Log Area

0.86	0.80	0.24	0.87	1.04	0.23	3PG
0.92	1.16	0.24	0.82	1.24	1.27	Adenine
0.91	1.08	0.18	0.84	1.71	2.15	Adenosine
0.82	0.85	0.14	0.92	1.25	1.44	ADP
0.68	0.69	0.87	1.02	1.04	1.68	aKG
0.63	0.96	0.39	0.89	1.53	1.43	Alanine
1.19	0.98	0.12	0.86	1.44	2.04	AMP
1.08	0.80	0.35	0.94	1.77	0.88	Arginine
0.54	1.56	0.11	2.13	1.12	0.14	Asparagine
0.84	1.18	0.25	0.96	1.67	1.01	Aspartate
0.92	0.83	0.44	0.89	1.10	1.55	ATP
0.85	0.87	0.55	0.87	1.44	1.06	Choline
0.85	0.78	0.35	0.95	1.08	1.11	Citrate
0.84	0.83	0.74	0.75	1.03	2.04	CTP
0.71	0.83	0.37	0.83	1.04	0.70	Cystathionine
1.46	0.98	0.09	1.43	3.55	0.48	Cysteine
1.26	0.54	0.10	1.33	2.87	0.31	Cystine
1.08	1.39	0.63	0.94	1.94	2.45	Cytidine
0.80	0.88	0.41	0.89	1.08	1.48	Fructose 6-phosphate
0.95	1.01	0.41	0.97	1.26	1.39	Fumarate
1.02	0.66	0.44	1.09	1.05	1.53	G6P
0.78	0.86	0.43	0.90	1.05	1.45	Galactose 1-phosphate
1.02	1.05	0.61	0.48	1.36	2.64	Gamma-glutamylcysteine
0.91	0.69	0.22	0.76	0.95	1.45	GDP
0.58	0.77	0.65	0.86	1.21	1.80	GLN
0.90	0.76	0.32	0.96	1.05	1.25	GLU
1.09	0.72	0.28	1.11	1.71	0.52	Glucose
1.03	0.76	0.34	1.01	1.09	1.33	Glycine
0.97	0.90	0.29	0.89	1.23	3.07	GMP
0.81	0.89	0.50	1.00	1.10	1.55	GSH
1.19	0.91	0.57	0.57	1.40	1.99	GSSG
0.92	0.67	0.50	0.73	0.92	1.83	GTP
1.35	0.82	0.25	0.59	1.53	3.41	IMP
0.99	0.79	0.36	0.91	1.44	1.27	IsoLeucine
0.89	0.49	0.69	0.82	0.85	1.73	Lactate
0.99	1.00	0.35	0.88	1.43	1.30	Leucine
1.14	0.77	0.42	0.92	1.75	1.11	Lysine
0.95	1.07	0.40	1.01	1.31	1.40	Malate
0.97	0.77	0.38	0.90	1.36	1.18	Methionine
1.02	1.15	0.22	1.03	1.57	0.91	N-acetylaspartate
0.85	0.85	0.42	0.94	1.24	1.31	NAD
1.02	0.60	0.36	0.88	0.54	1.52	NADH
0.82	1.01	0.66	0.60	1.04	1.72	NADP
0.76	0.81	0.44	0.72	1.04	0.22	PEP
0.91	0.84	0.33	0.95	1.40	1.10	Phenylalanine
0.91	0.75	0.61	0.96	1.10	1.36	Proline
0.82	1.07	0.44	1.09	1.66	1.75	Pyruvate
0.73	1.13	0.54	0.92	1.60	2.50	Ribose phosphate
0.71	0.64	0.44	0.78	0.69	1.55	S7P
1.09	0.92	0.37	1.00	1.33	1.18	Serine
0.44	0.52	0.36	0.66	1.30	0.75	Succinic acid
1.05	0.92	0.27	1.01	1.44	1.05	threonine
0.59	0.98	0.65	1.12	1.90	1.96	Thymine
0.94	0.73	0.45	0.85	1.36	1.30	tryptophan
0.83	0.89	0.37	1.02	1.44	1.20	Tyrosine
0.80	1.07	0.21	0.75	1.65	1.34	UDP
0.82	1.40	0.23	0.58	1.59	3.02	UMP
0.90	1.05	0.47	0.88	1.33	1.88	Uridine diphosphategalactose
0.85	0.99	0.53	0.81	1.31	1.90	UTP
1.02	0.77	0.33	0.89	1.47	1.18	Valine

13cGlc_DB_GBA1

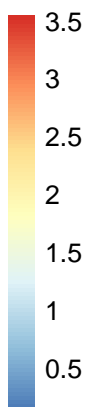
13cGlc_DB_GBA2

13cGlc_DB_GBA3

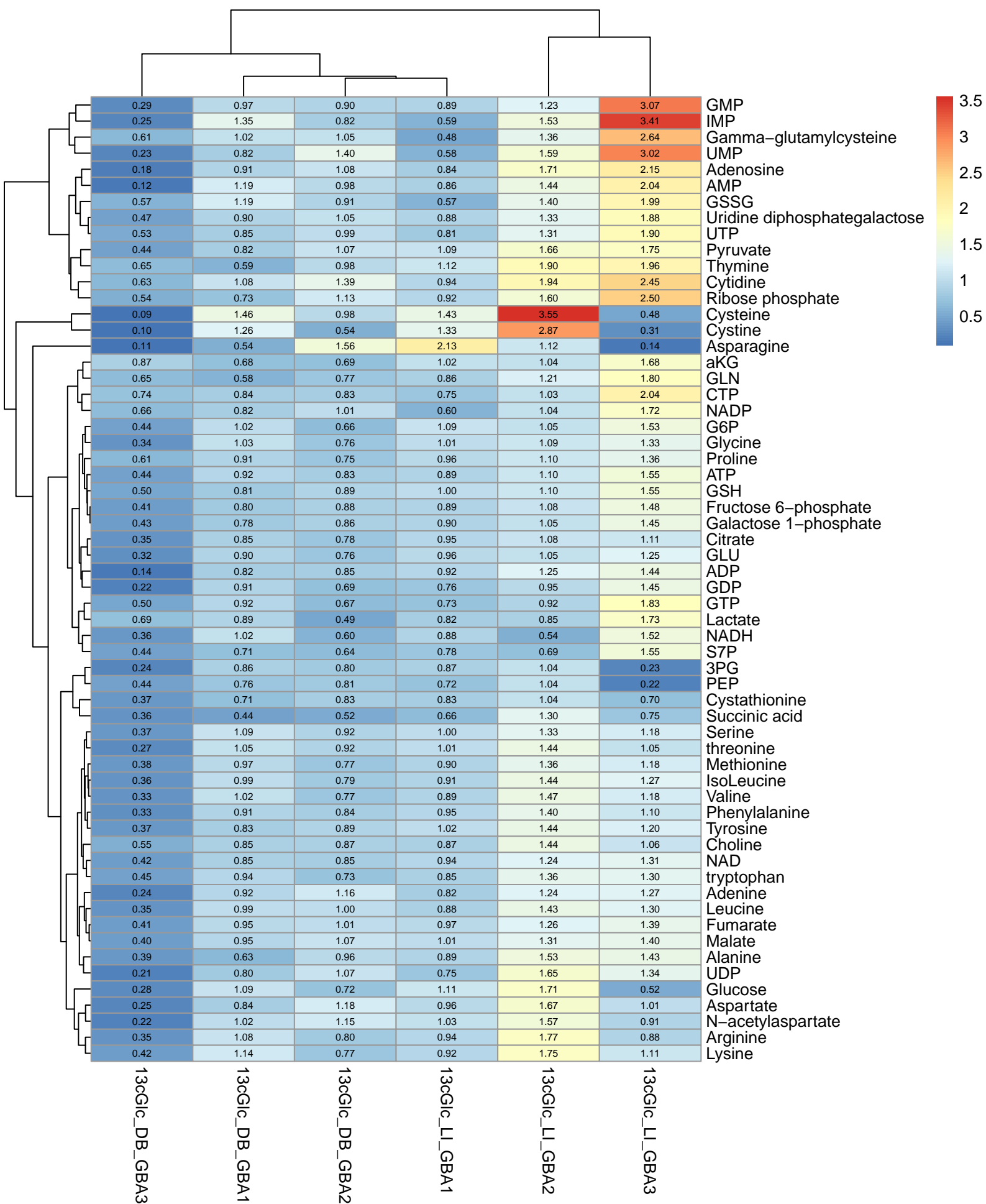
13cGlc_LI_GBA1

13cGlc_LI_GBA2

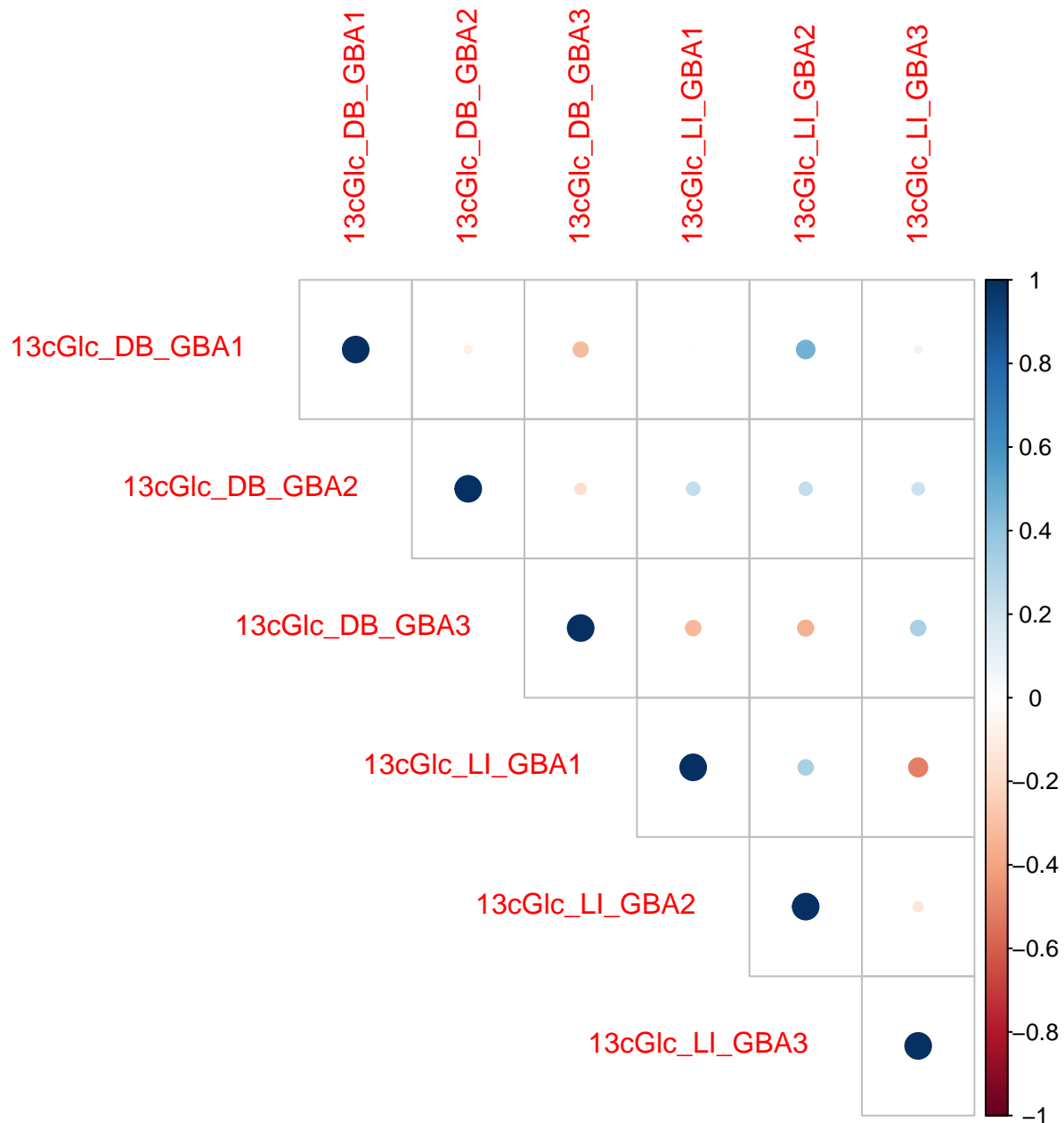
13cGlc_LI_GBA3

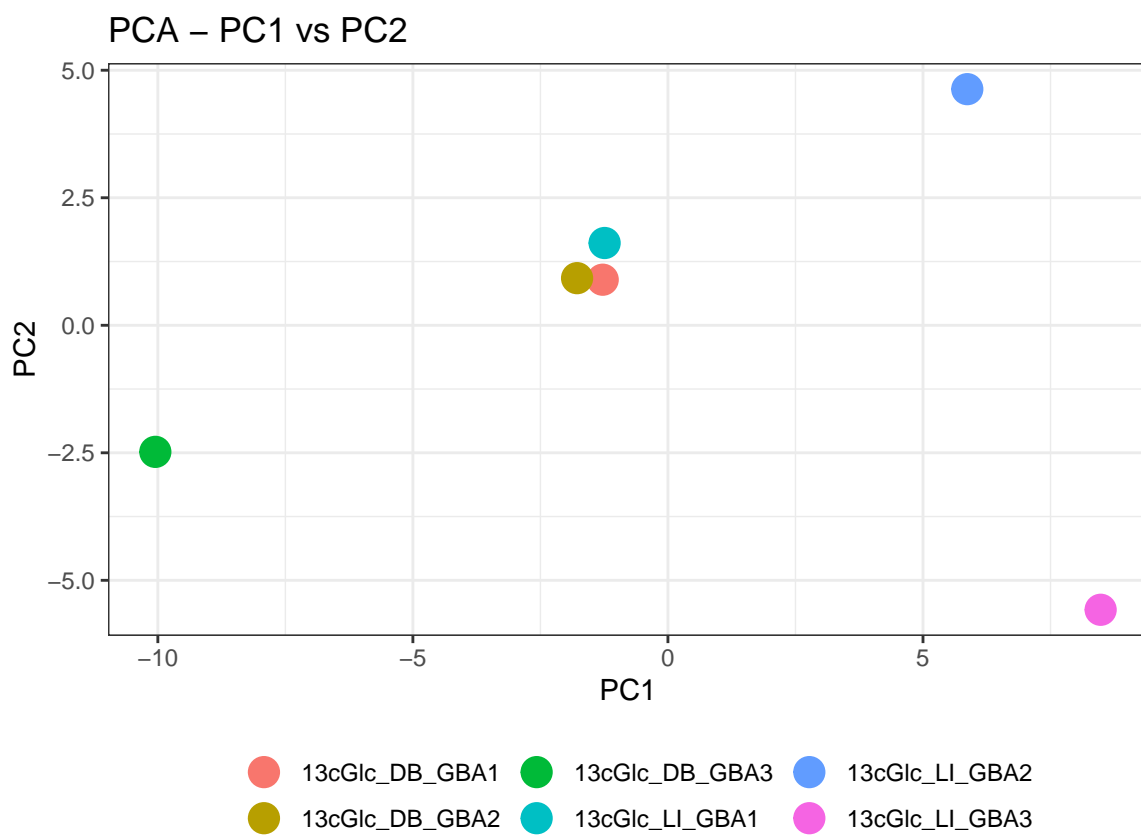


Log Area (Clustering samples)

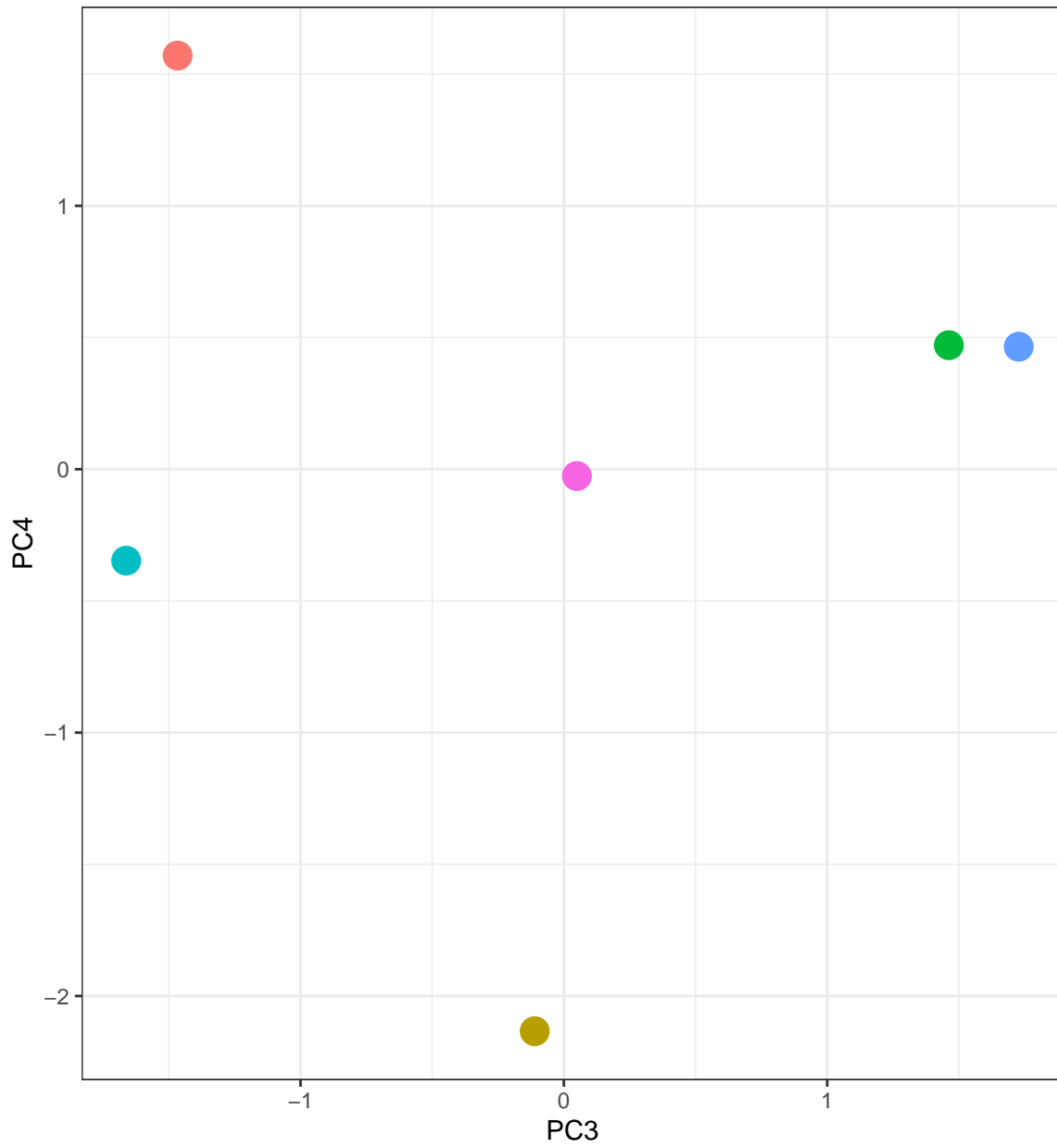


Sample correlation plot





PCA – PC3 vs PC4



- 13cGlc_DB_GBA1
- 13cGlc_DB_GBA2
- 13cGlc_DB_GBA3
- 13cGlc_LI_GBA1
- 13cGlc_LI_GBA2
- 13cGlc_LI_GBA3