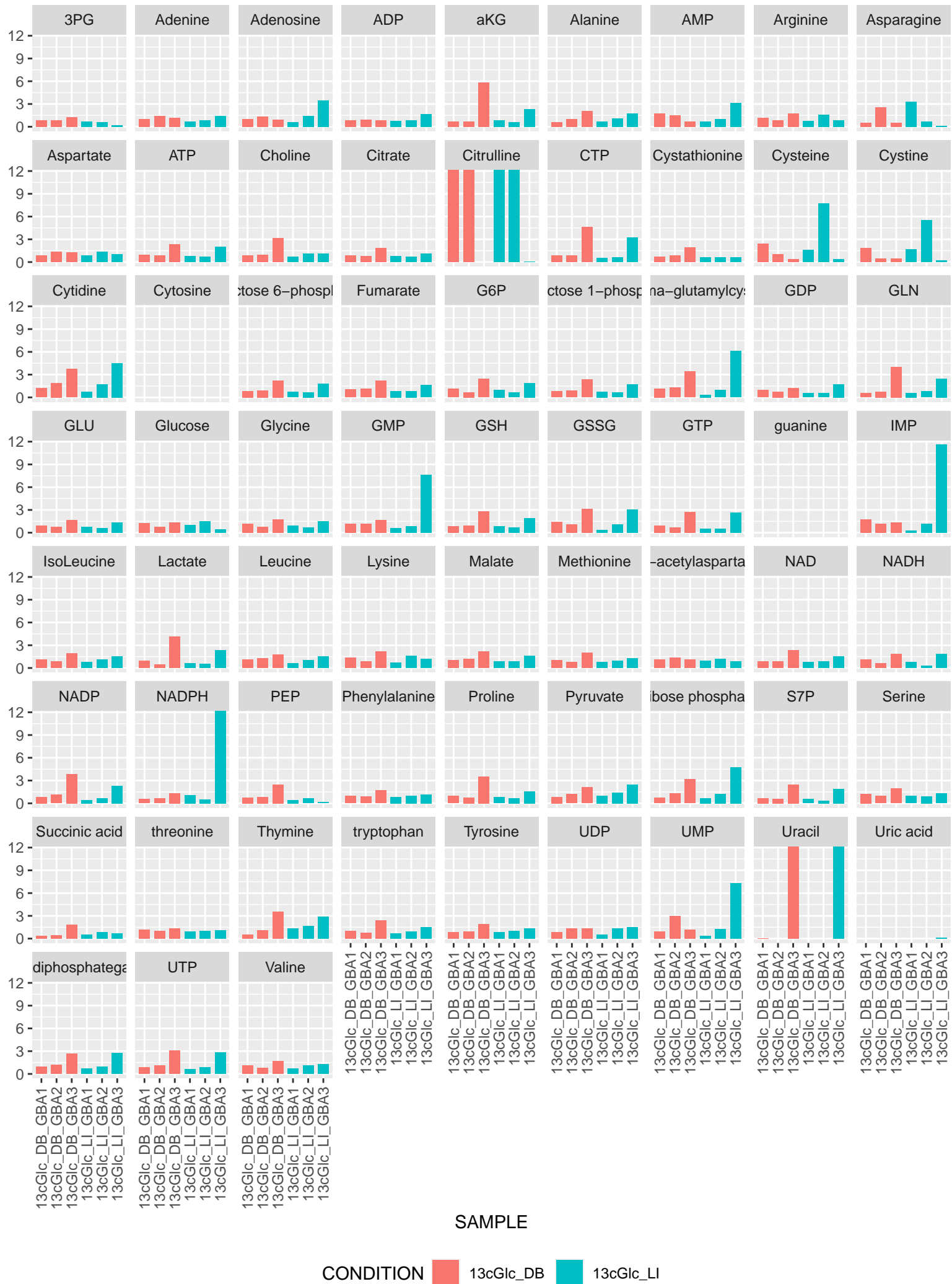


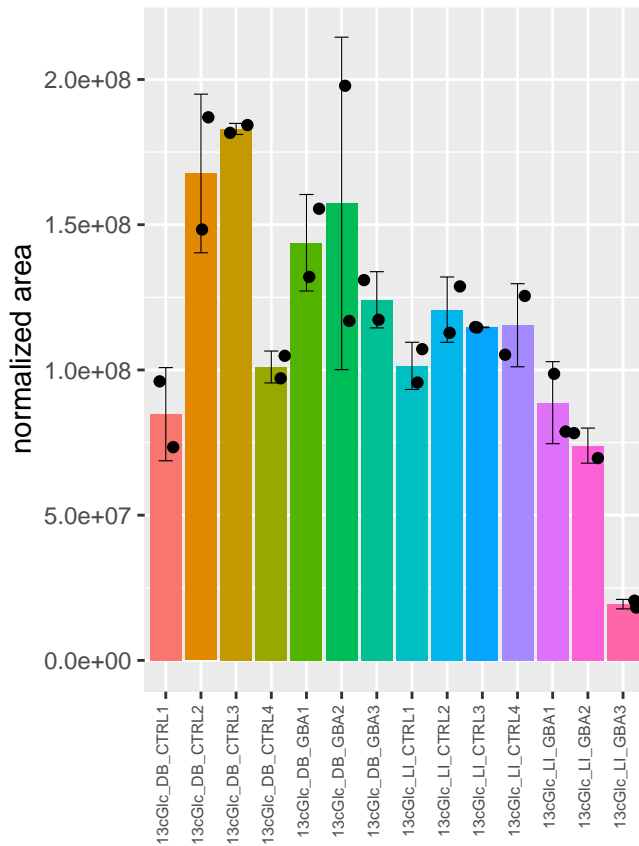
Peakarea normalization

- Processed: 2023-02-02 06:45:06
- Input file: 20230126_LN478_AS_CTRL_GBA_DB_Li_13cGlc_only_conc.rep.xlsx
- Number of replicates: 2
- Number of metabolites: 66
- Reference sample: CTRL
- PCV: N/A

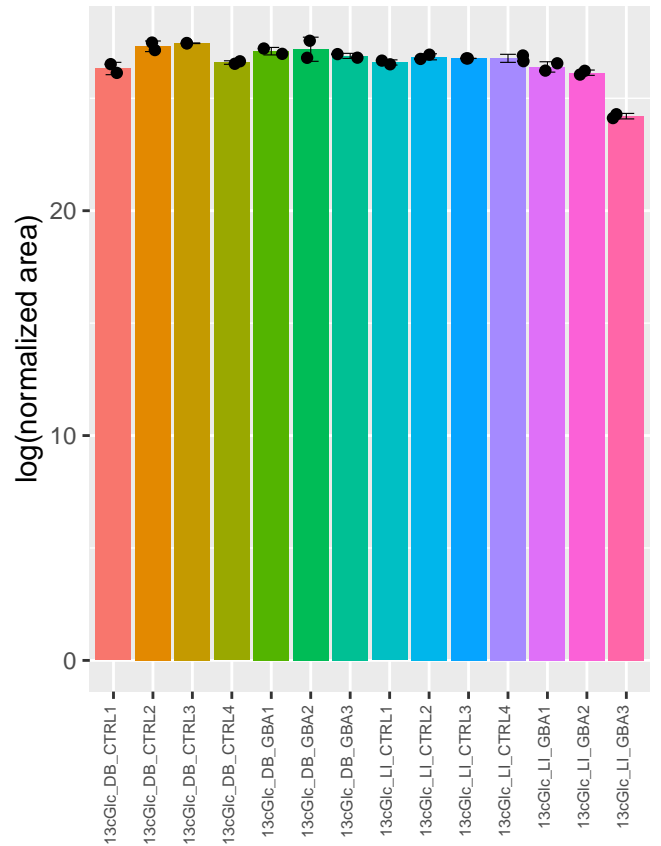
Normalized Area by CTRL



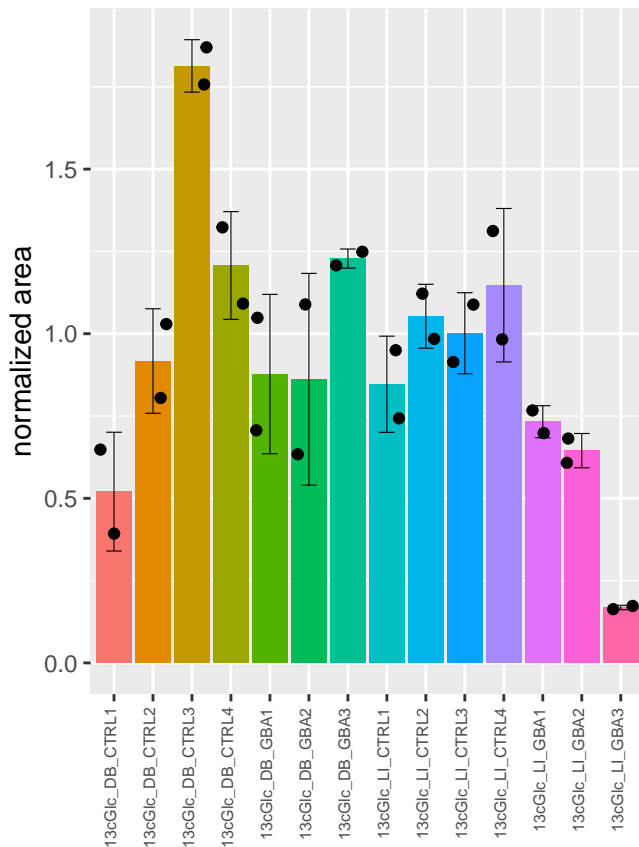
3PG



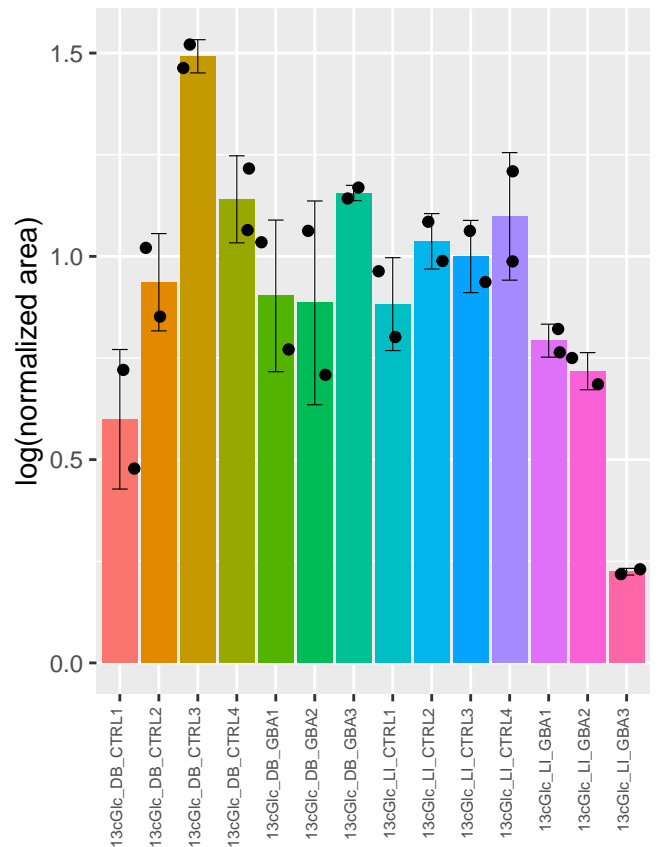
3PG

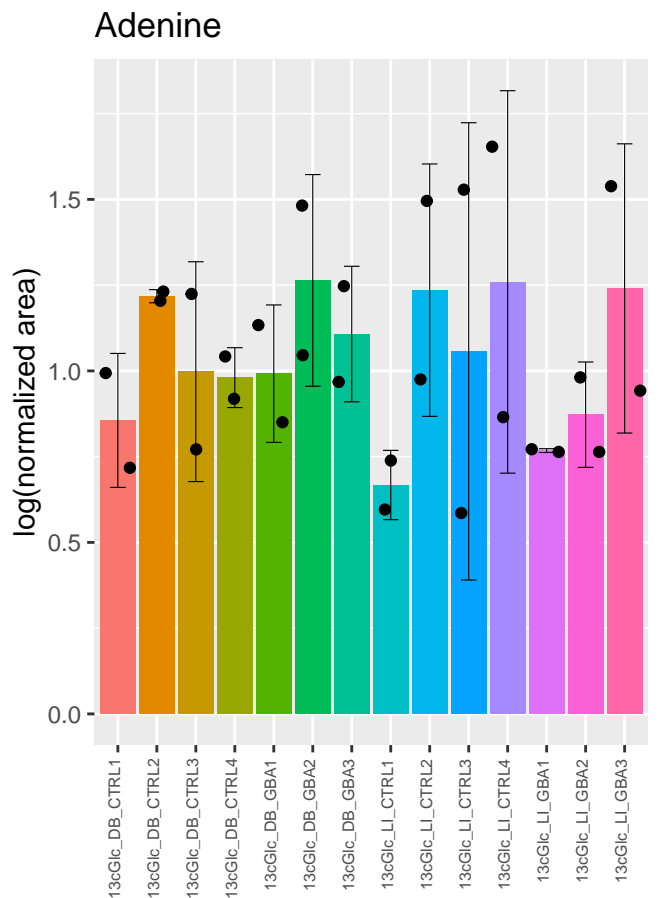
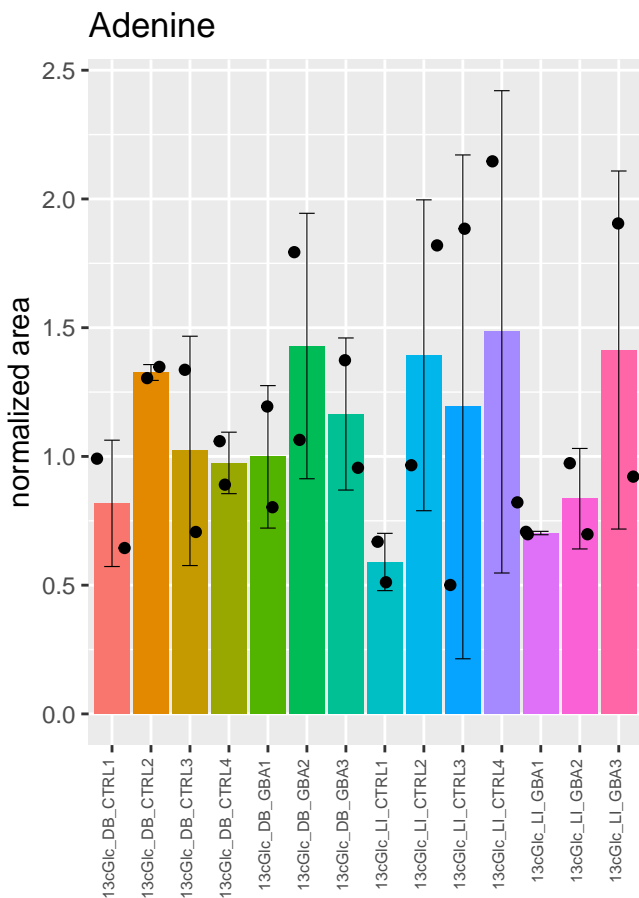
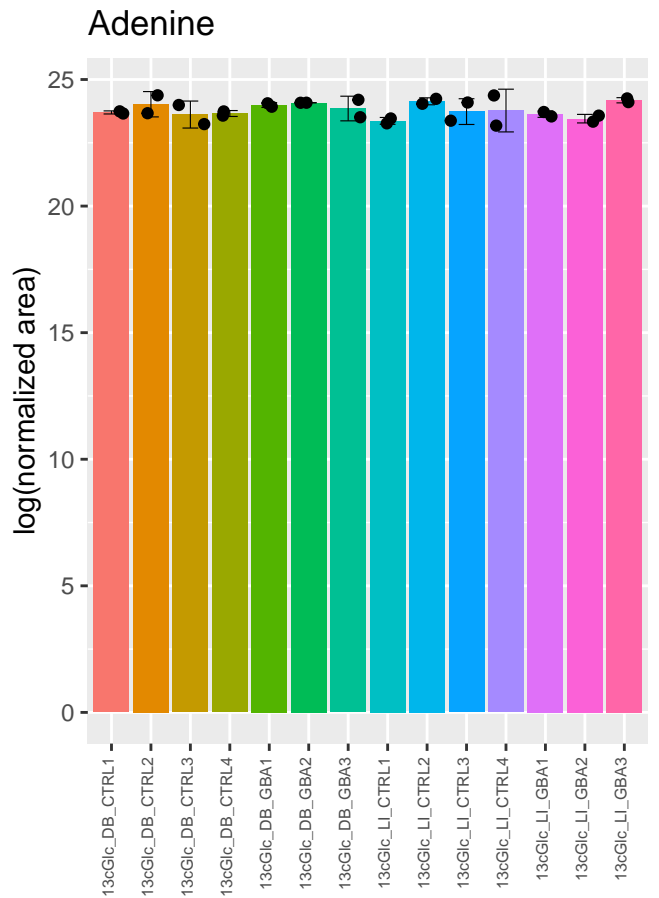
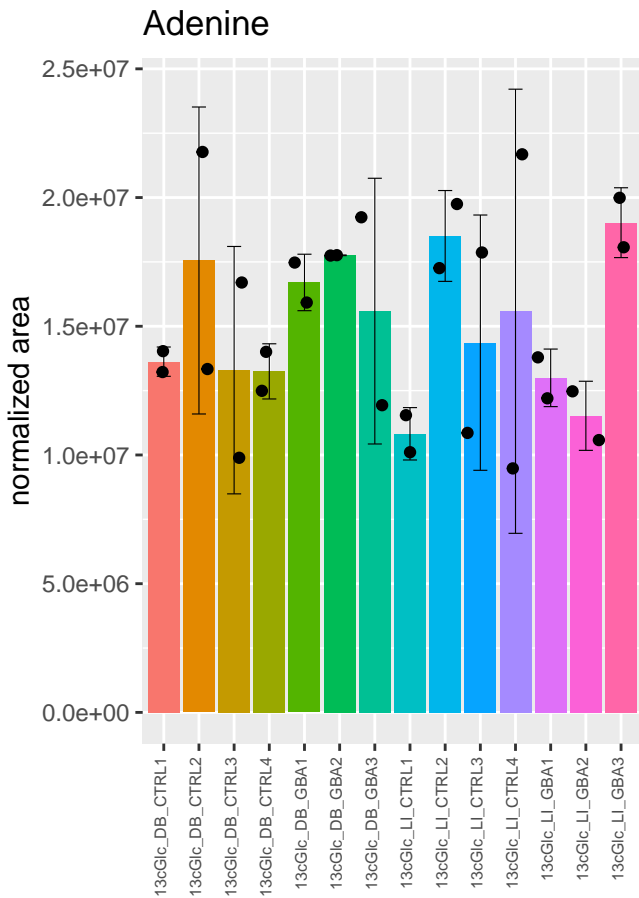


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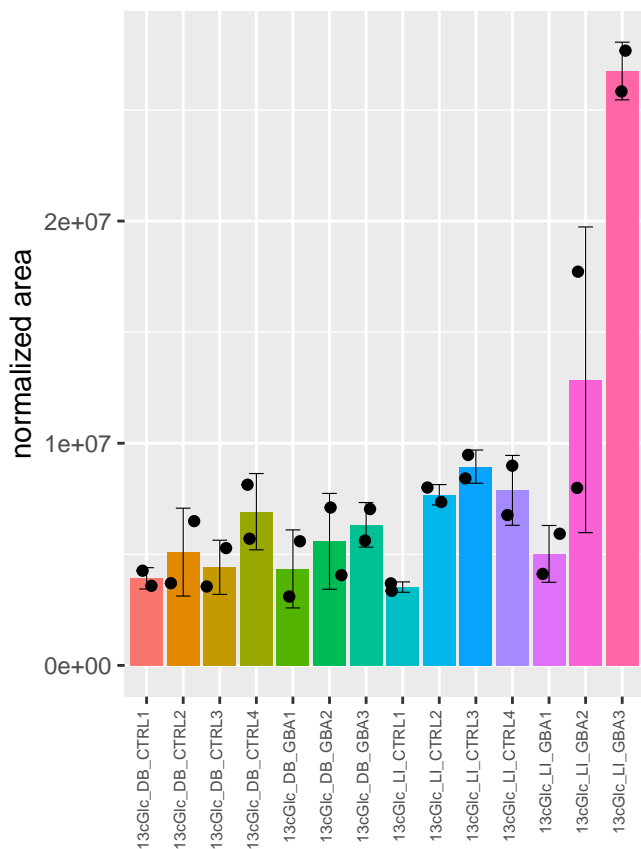


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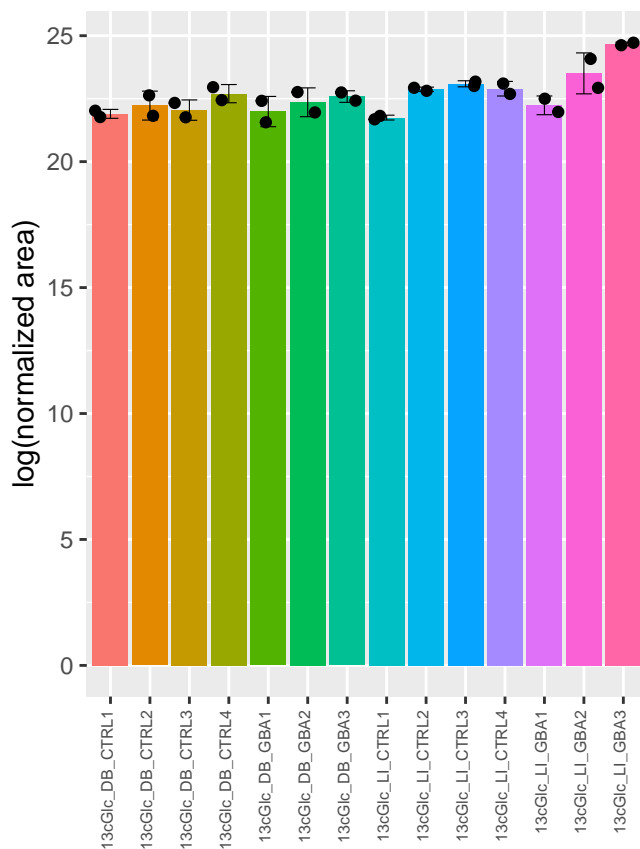




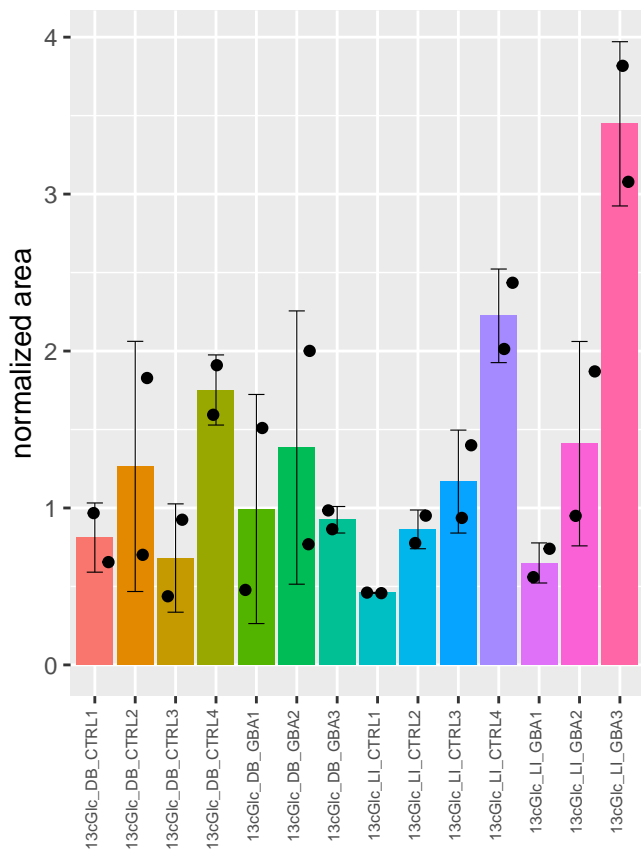
Adenosine



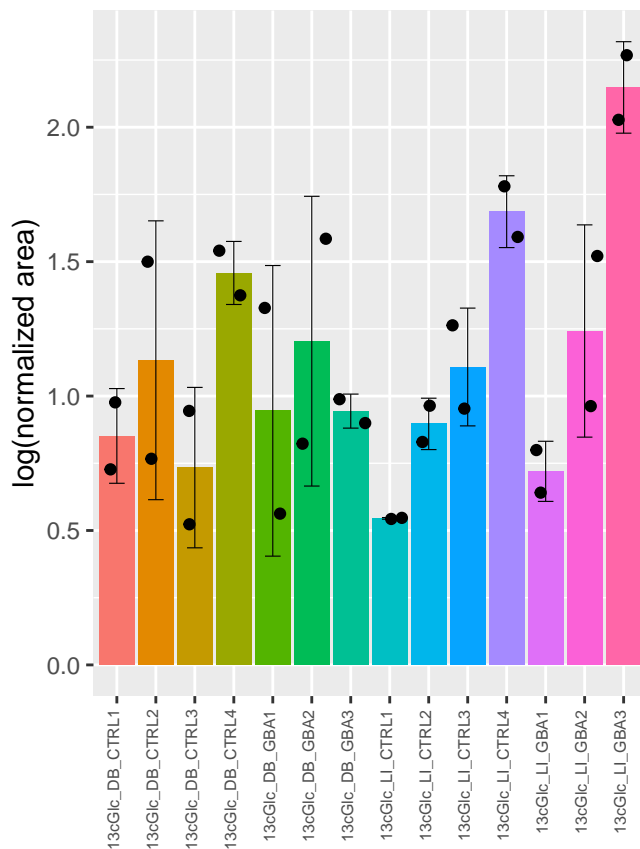
Adenosine

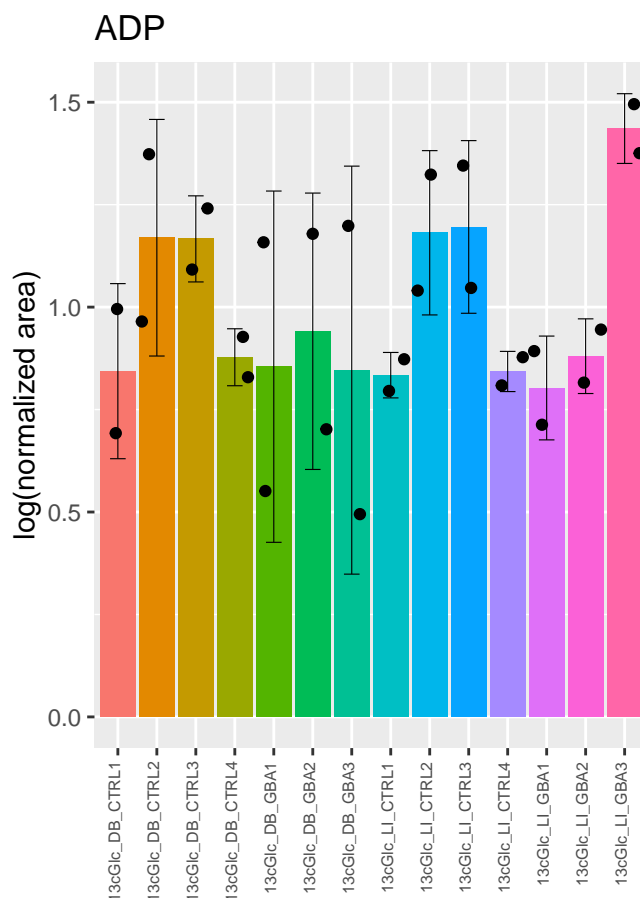
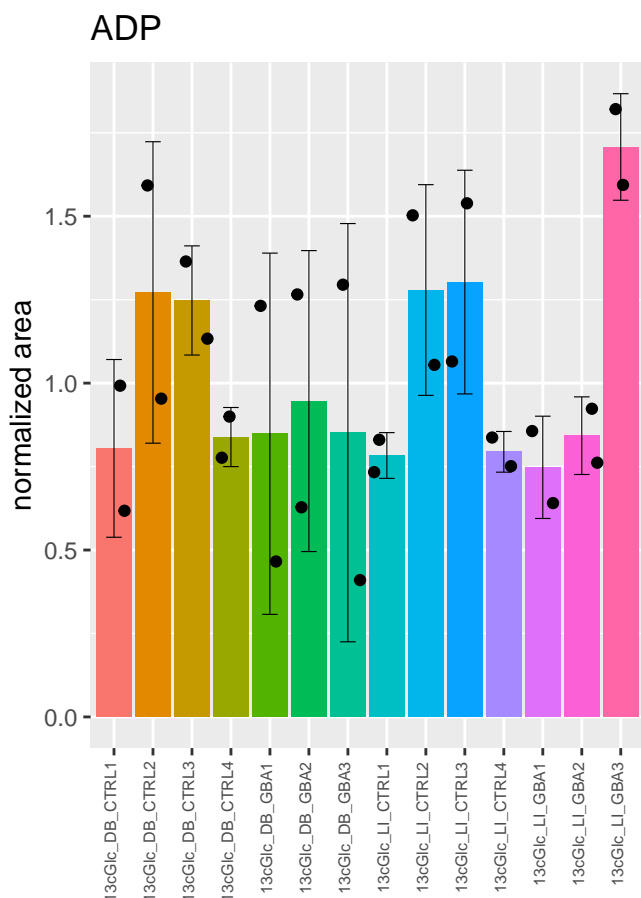
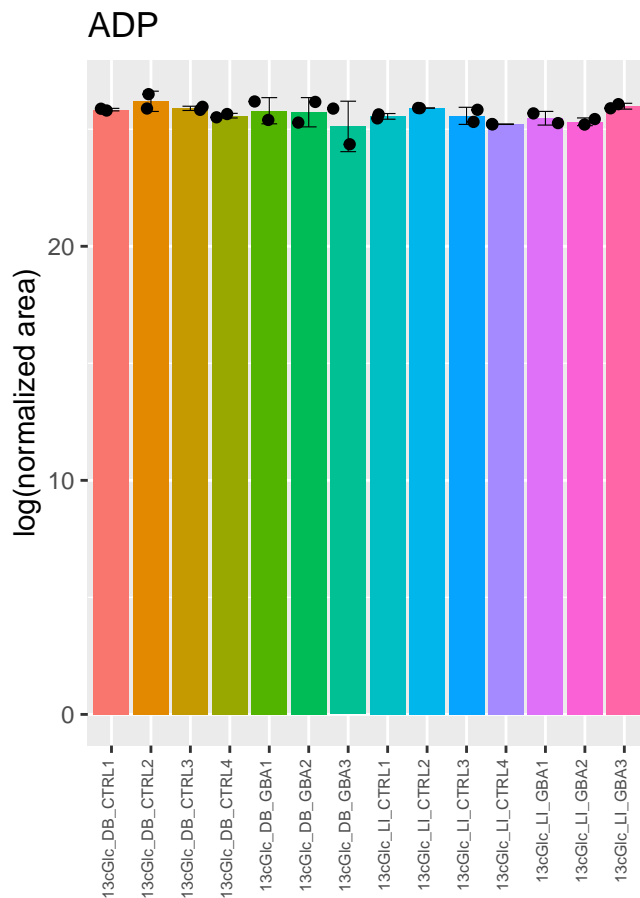
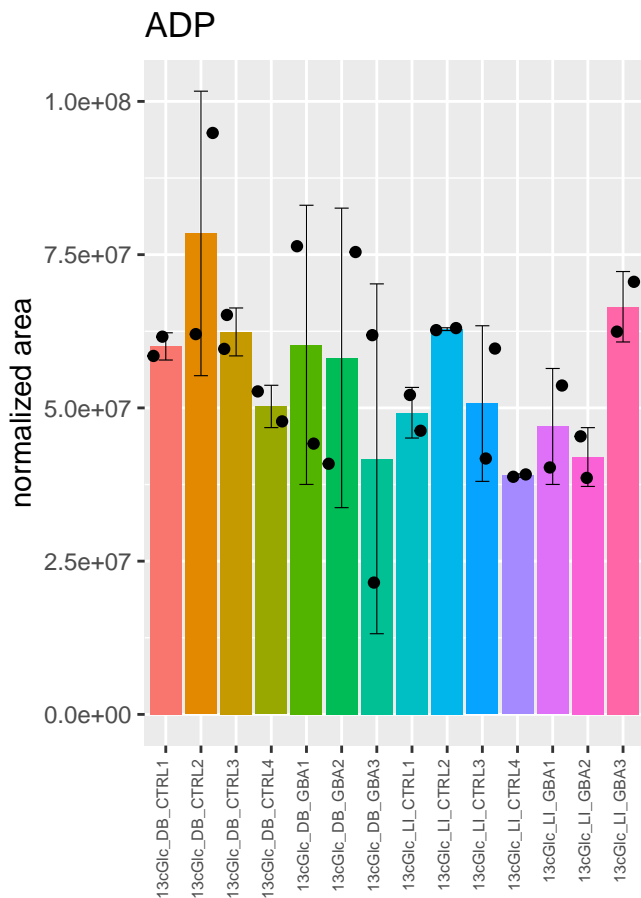


Adenosine

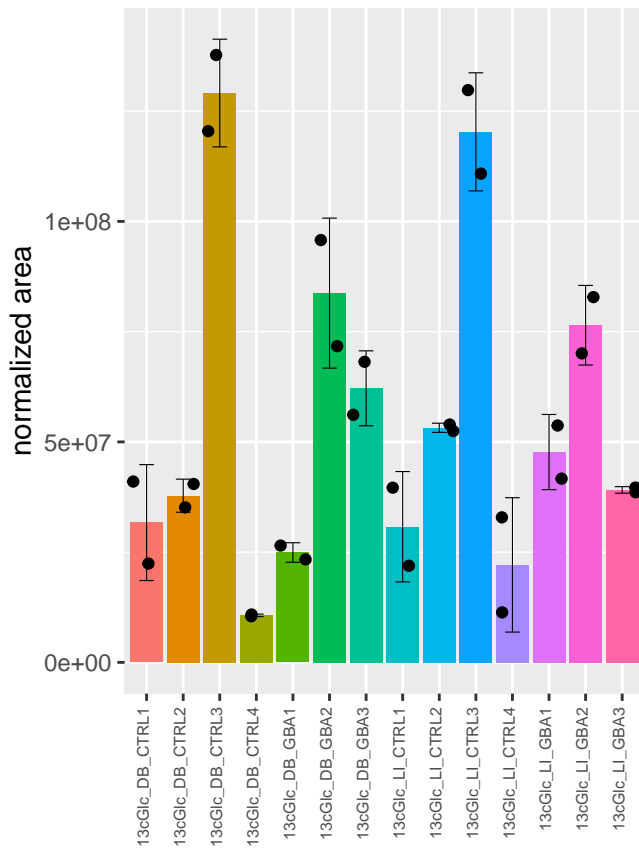


Adenosine

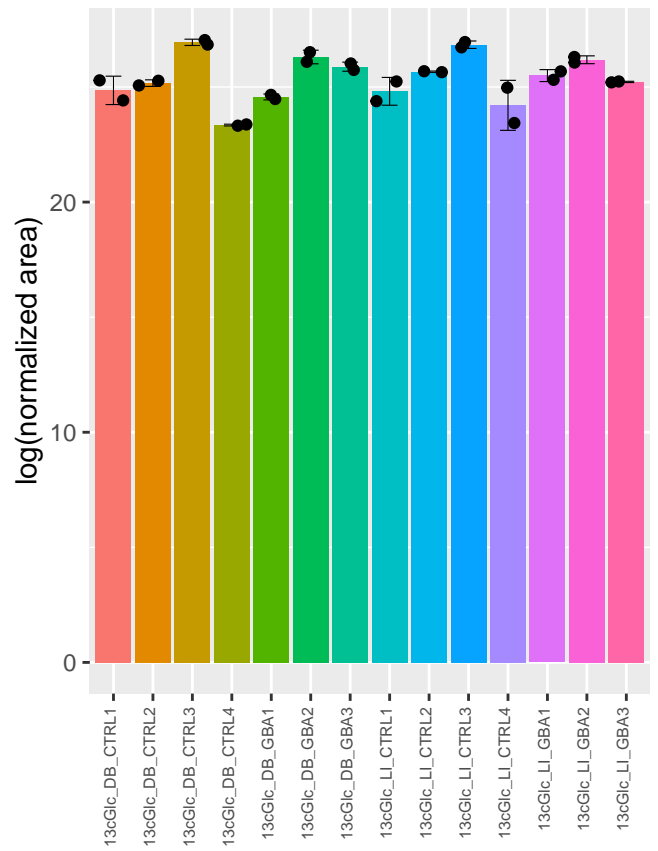




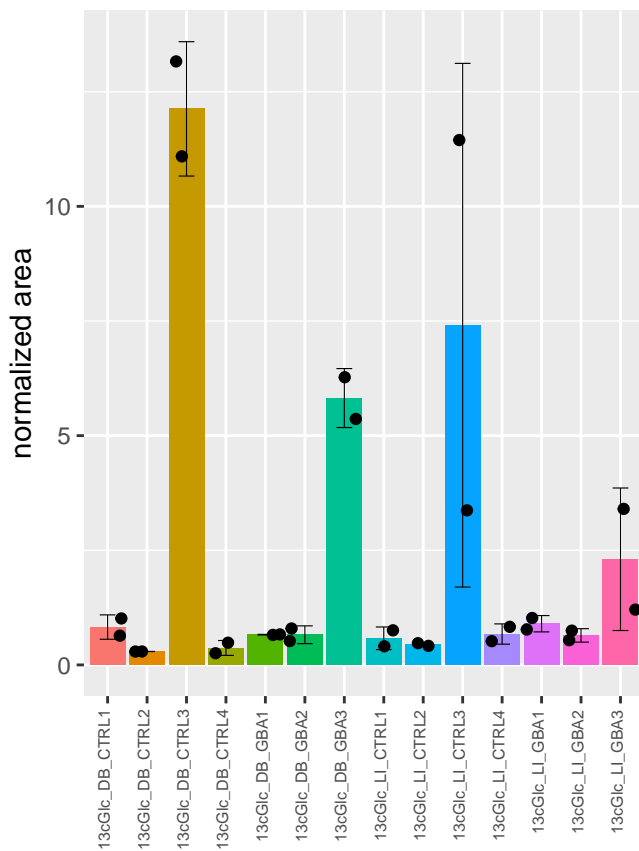
aKG



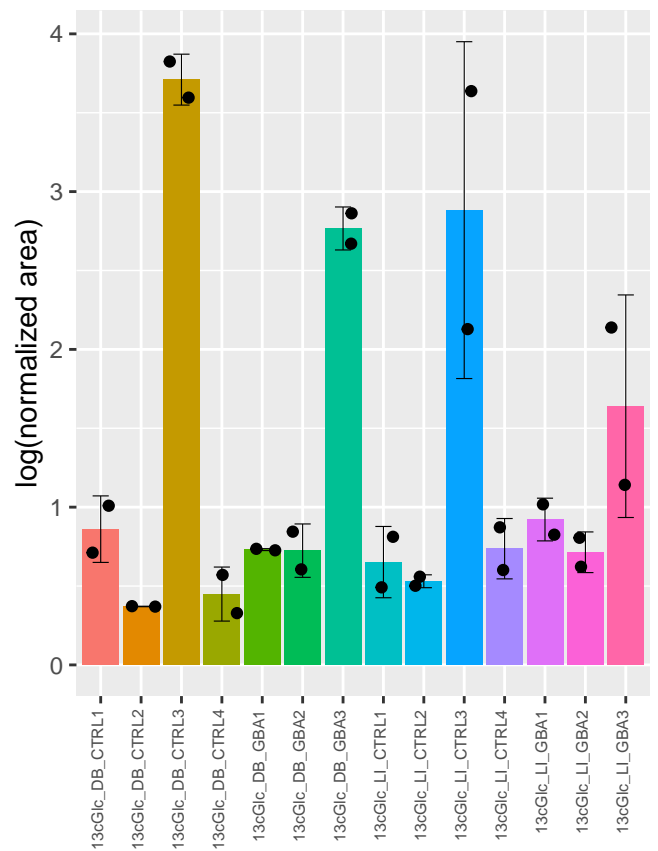
aKG



aKG

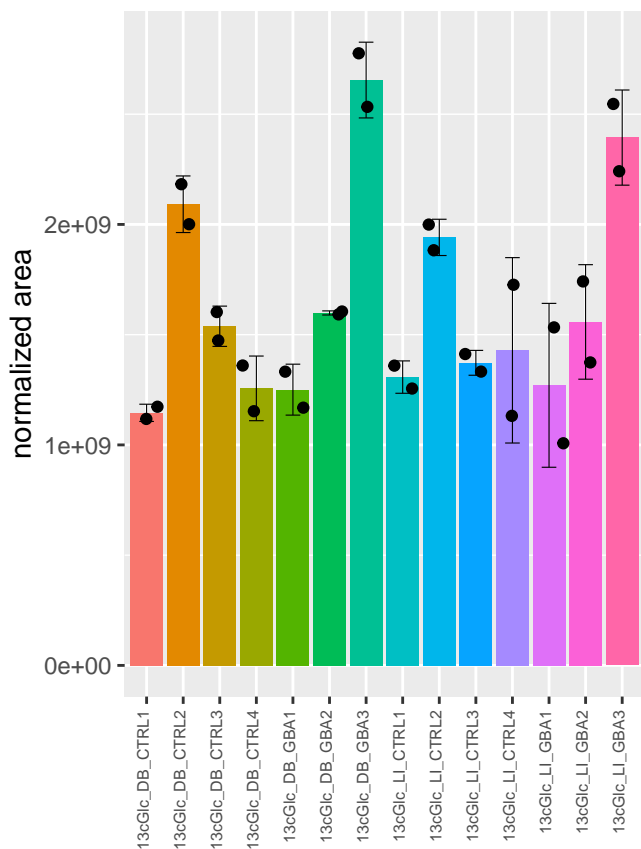


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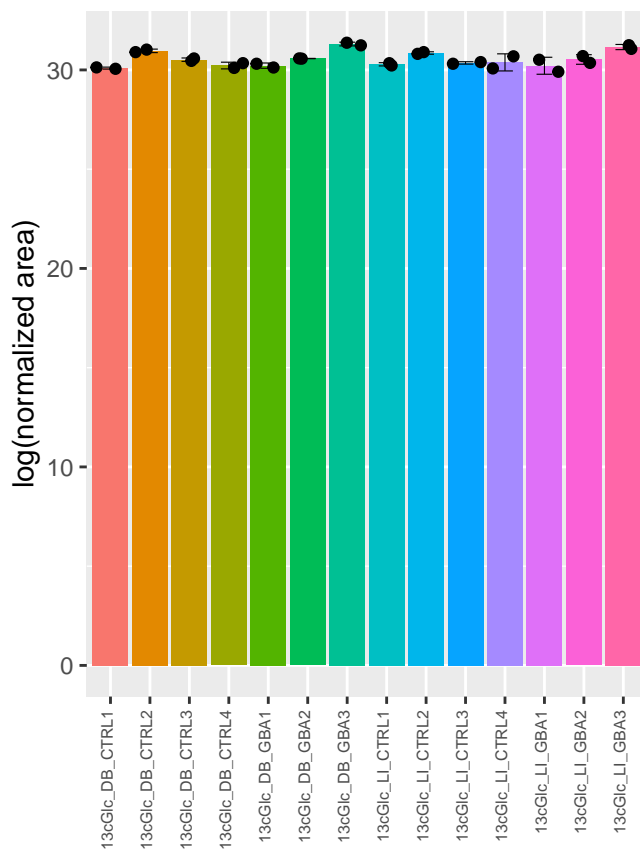


without PCV normalization

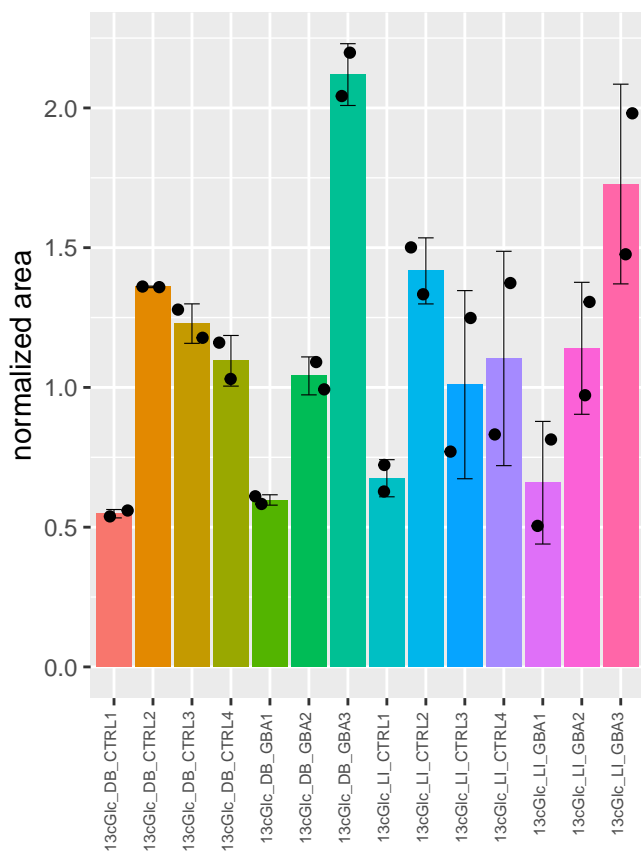
Alanine



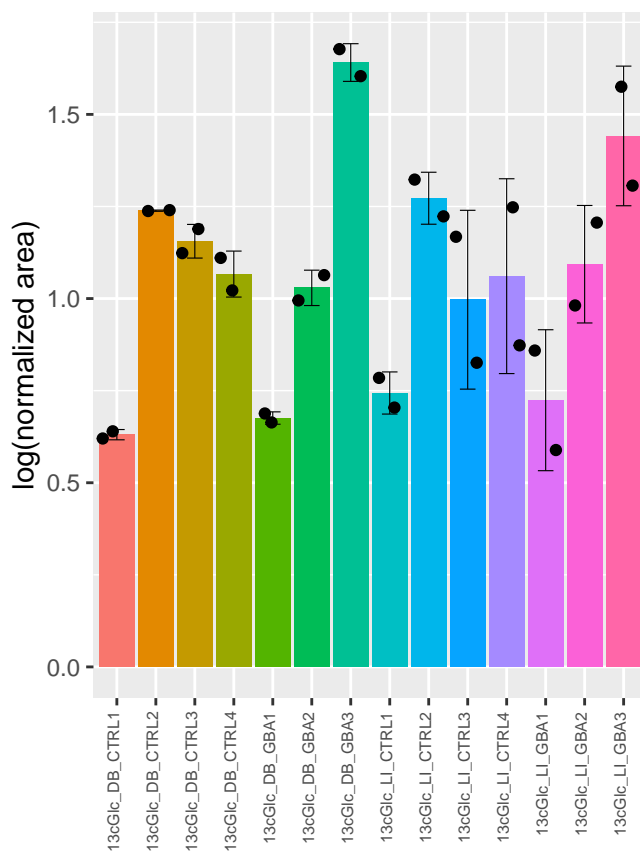
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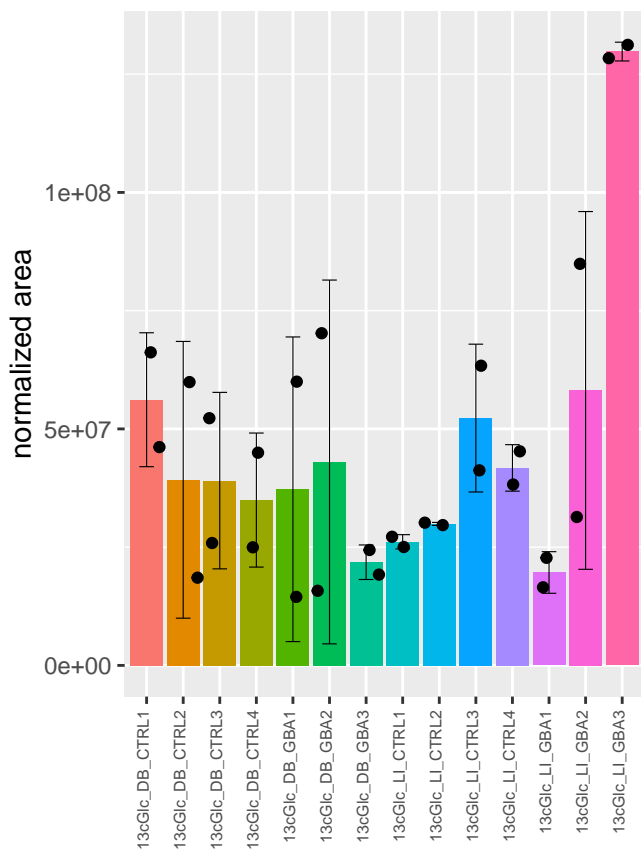
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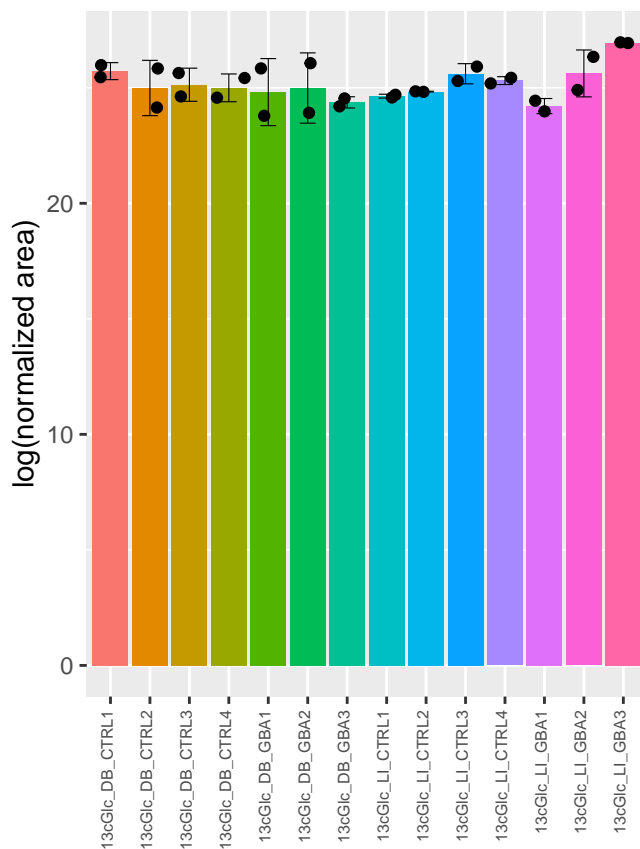
Alanine



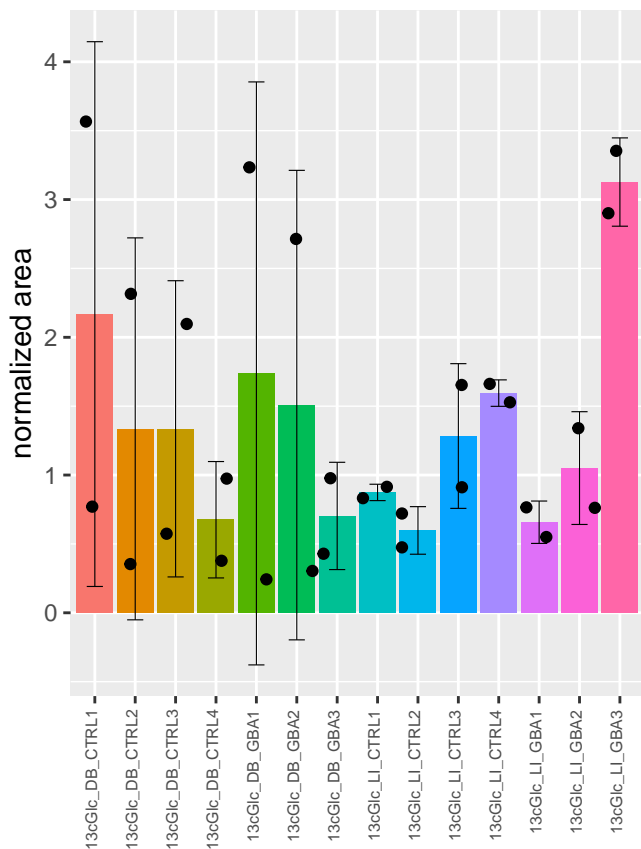
AMP



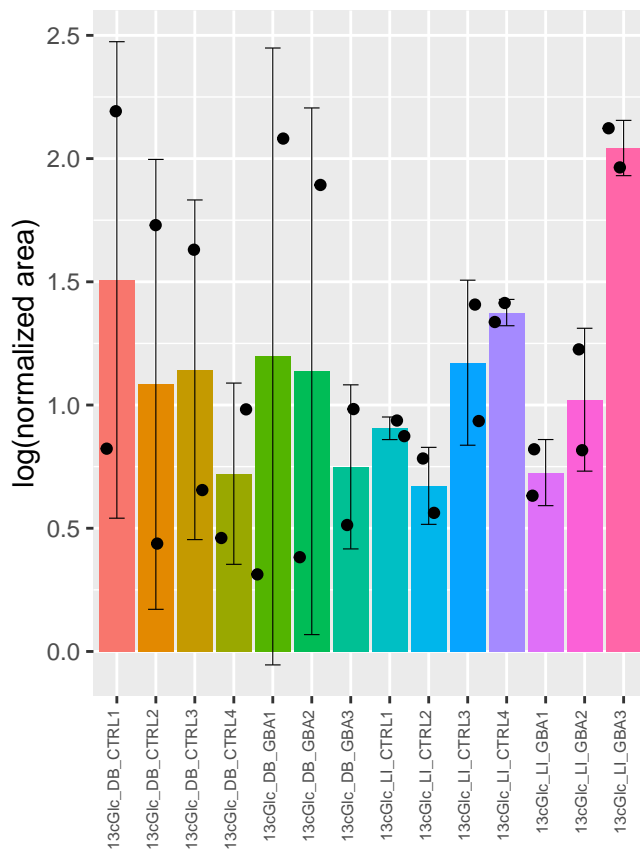
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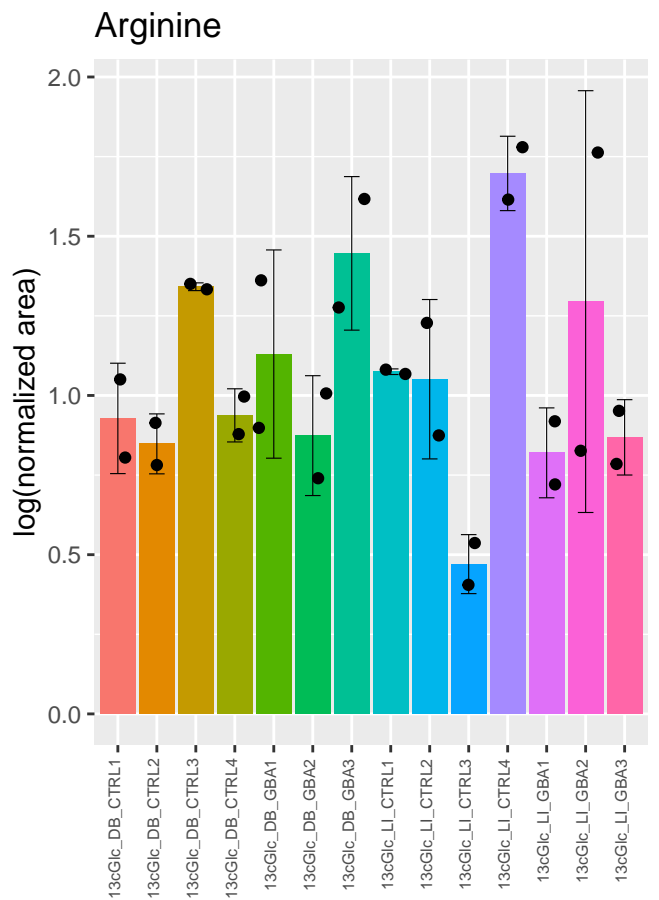
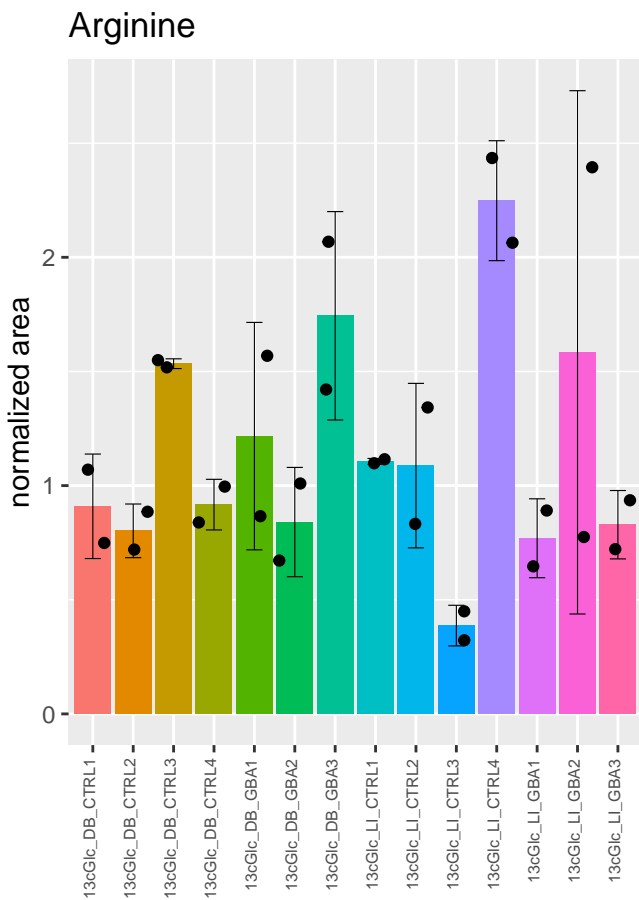
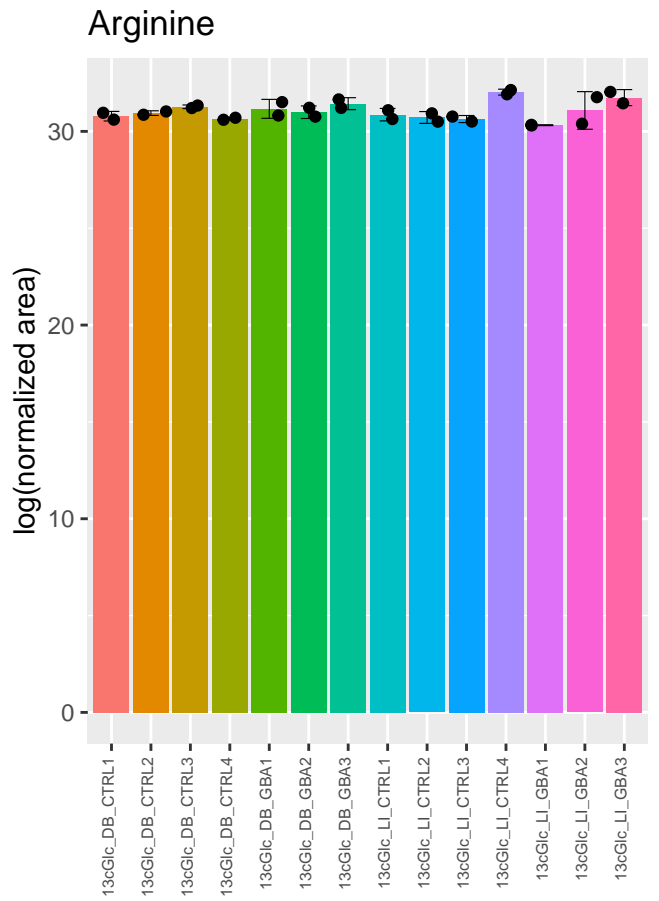
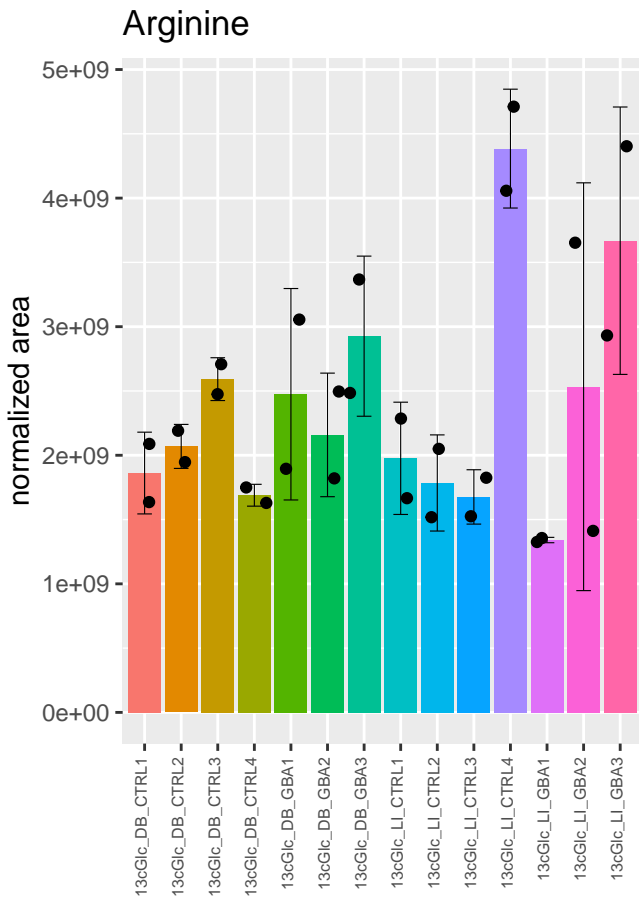


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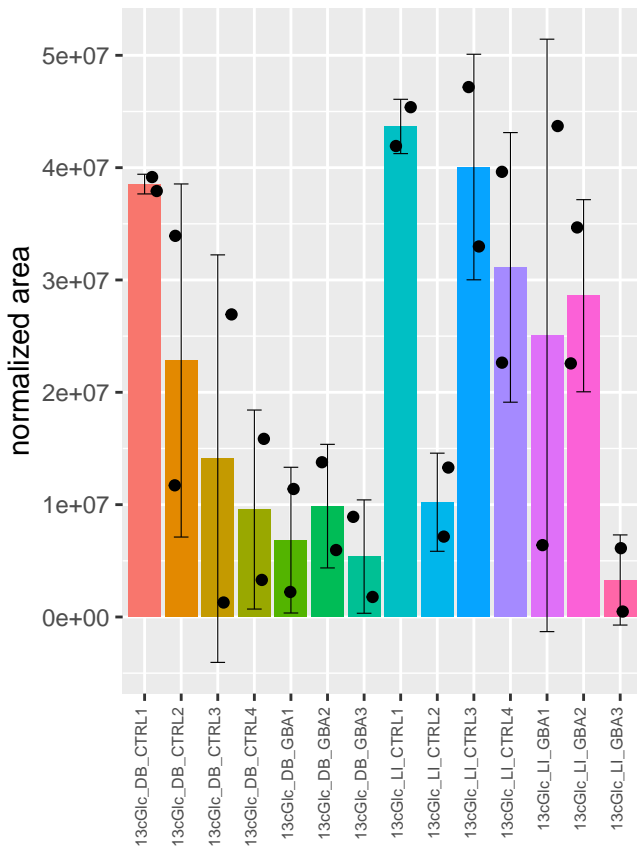


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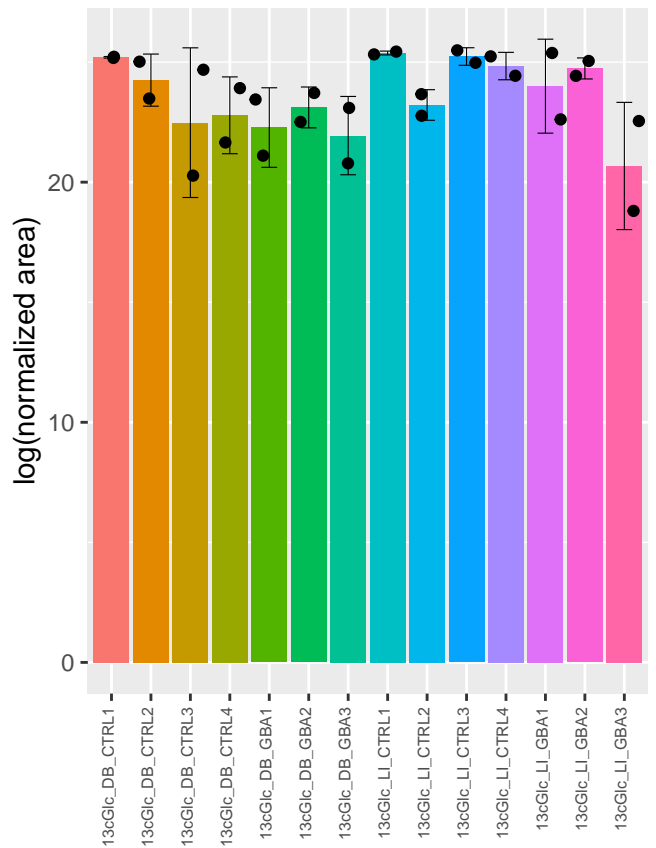




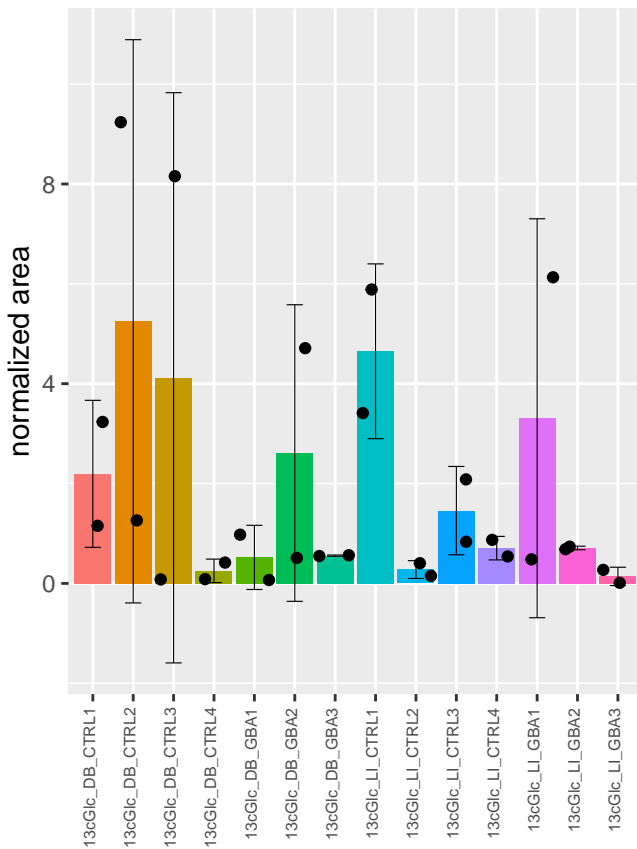
Asparagine



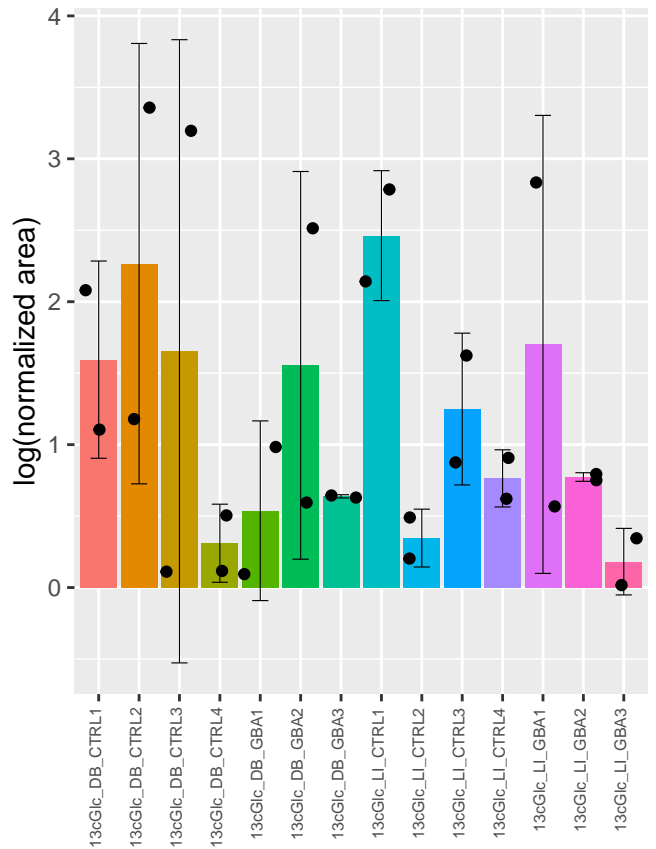
Asparagine



Asparagine

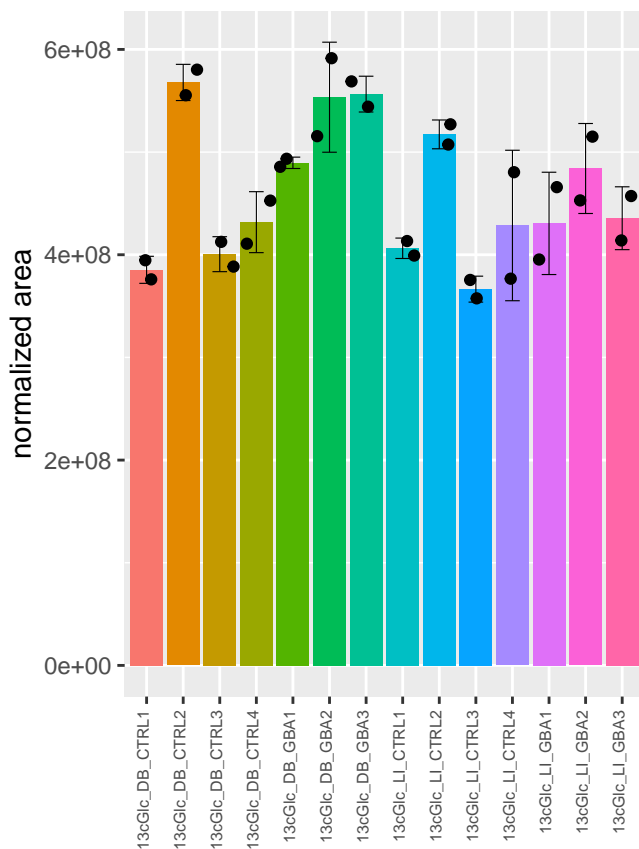


Asparagine

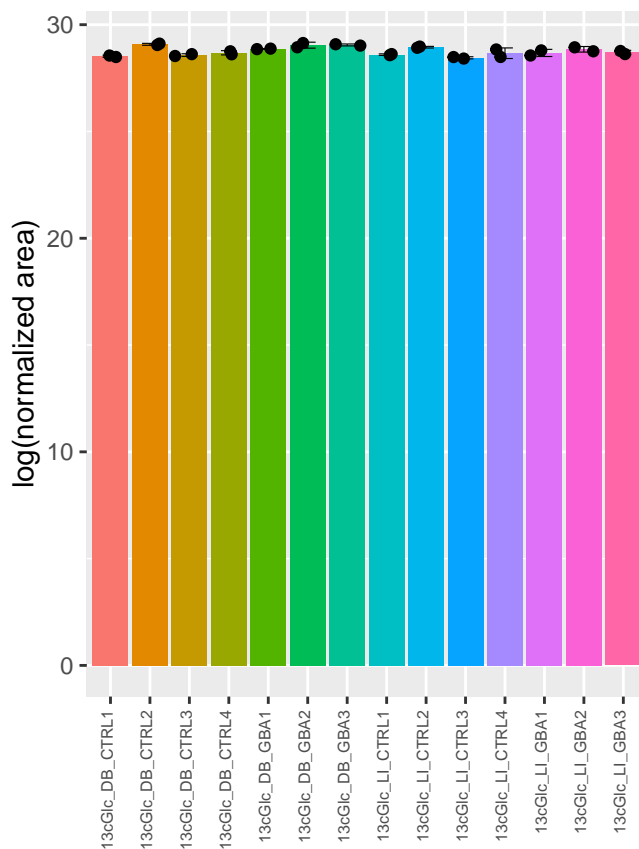


without PCV normalization

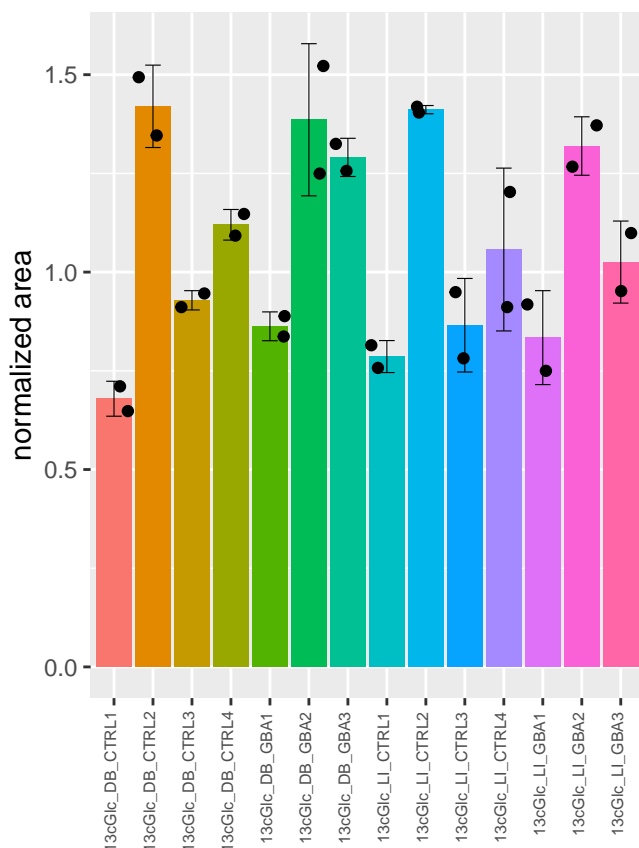
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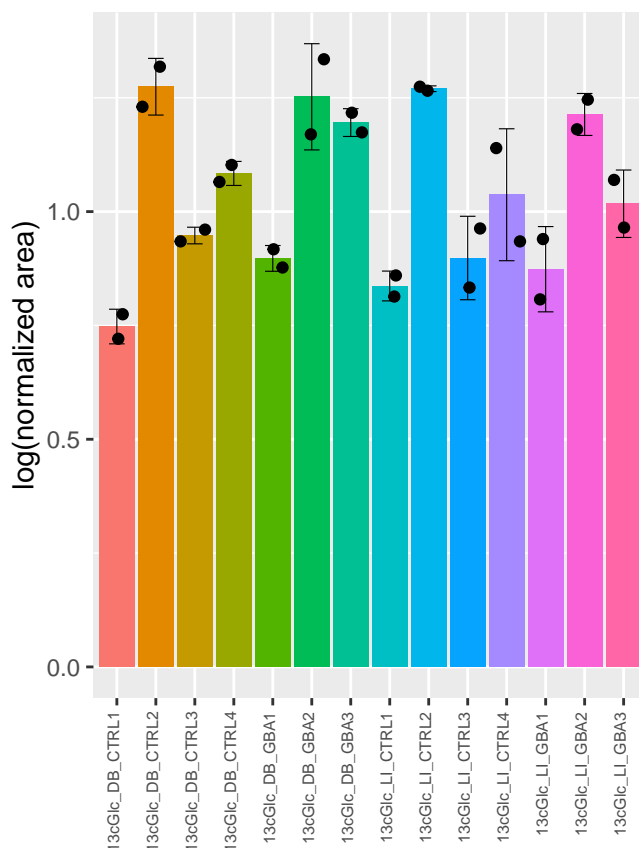
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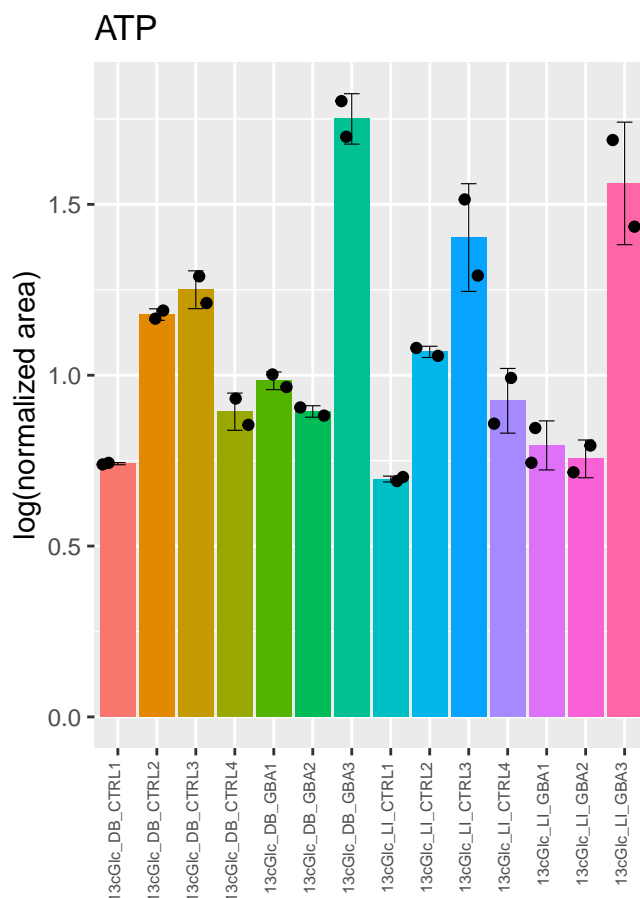
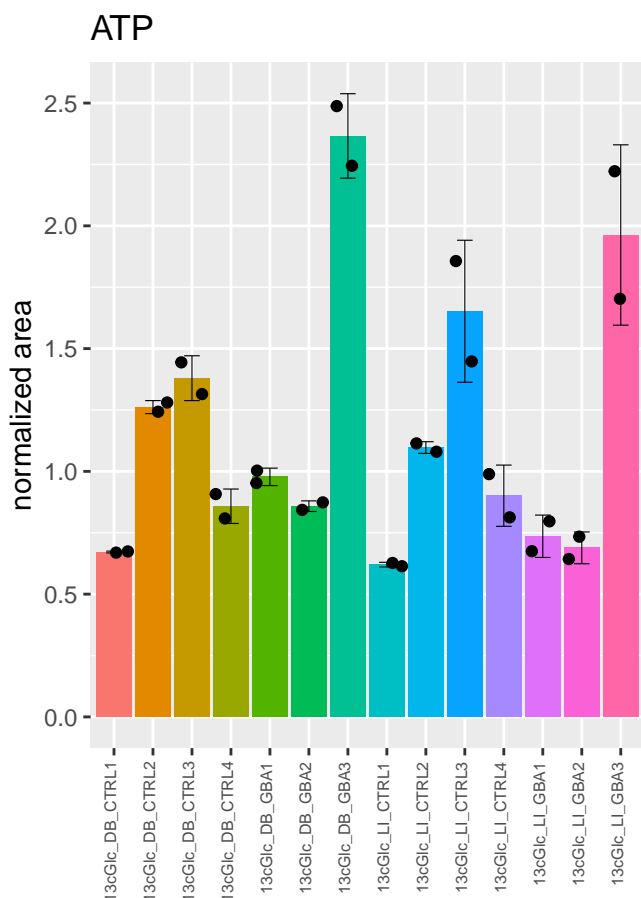
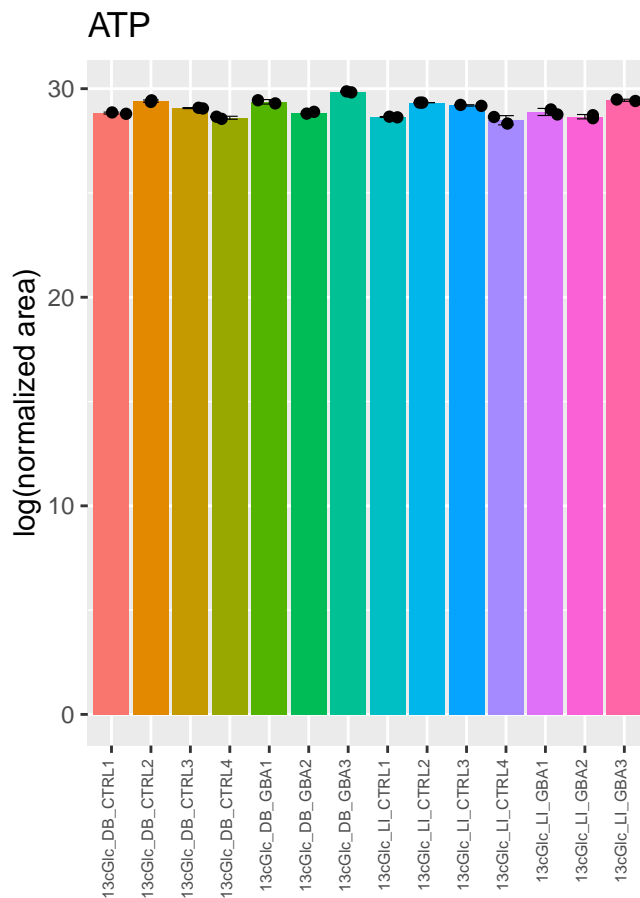
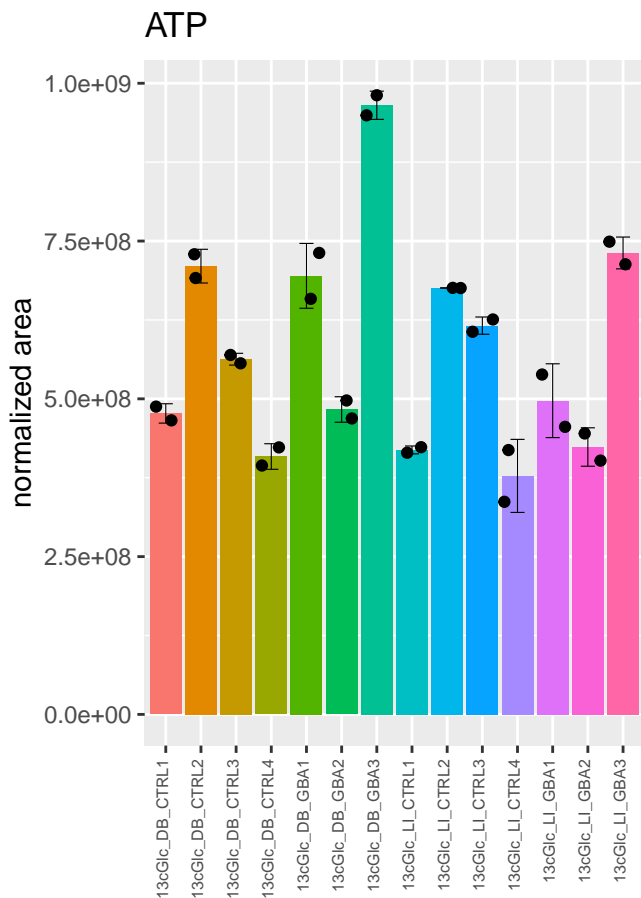


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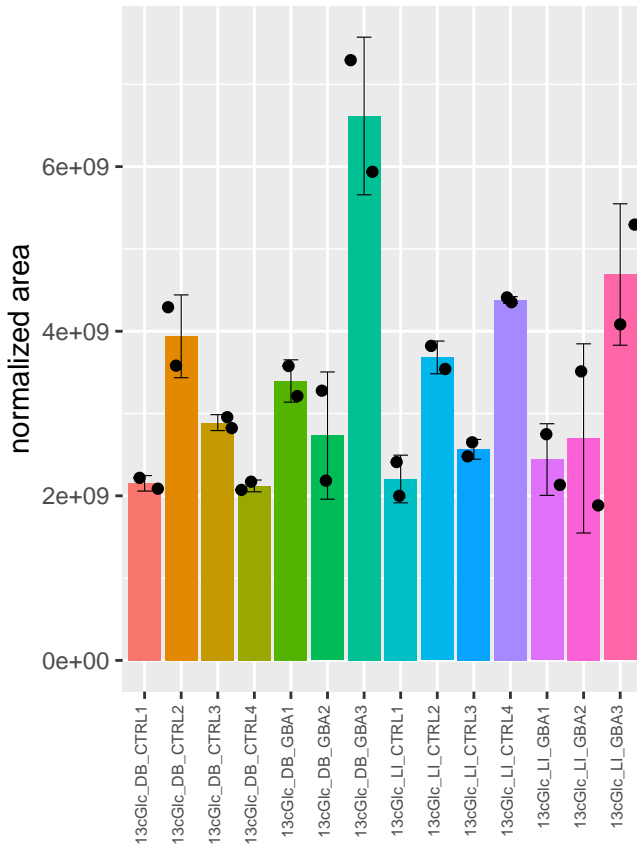
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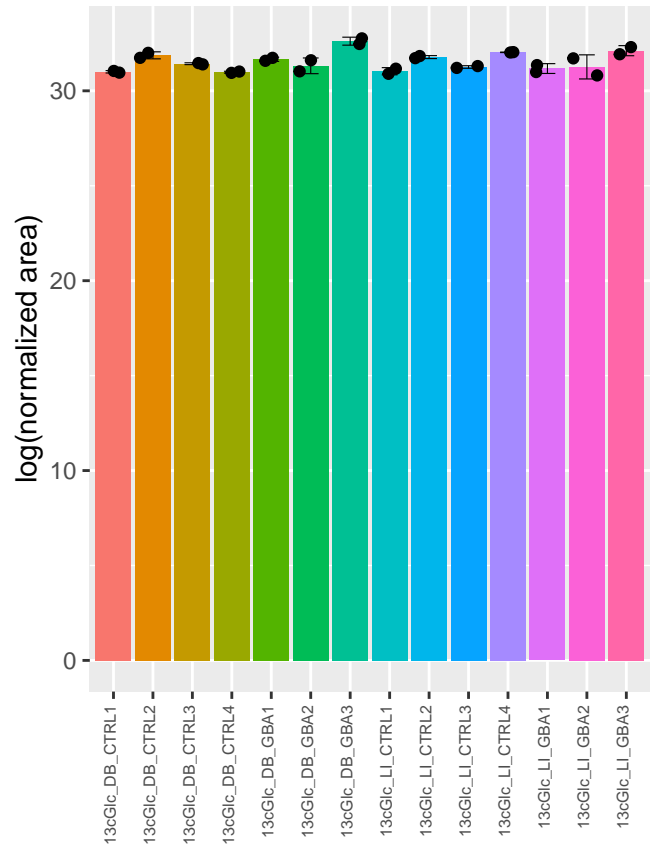


without PCV normalization

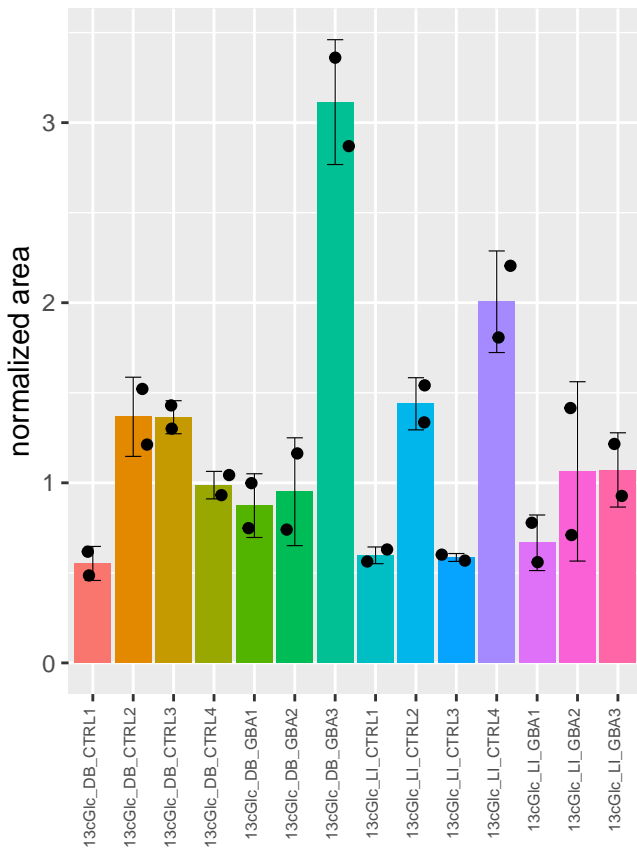
Choline



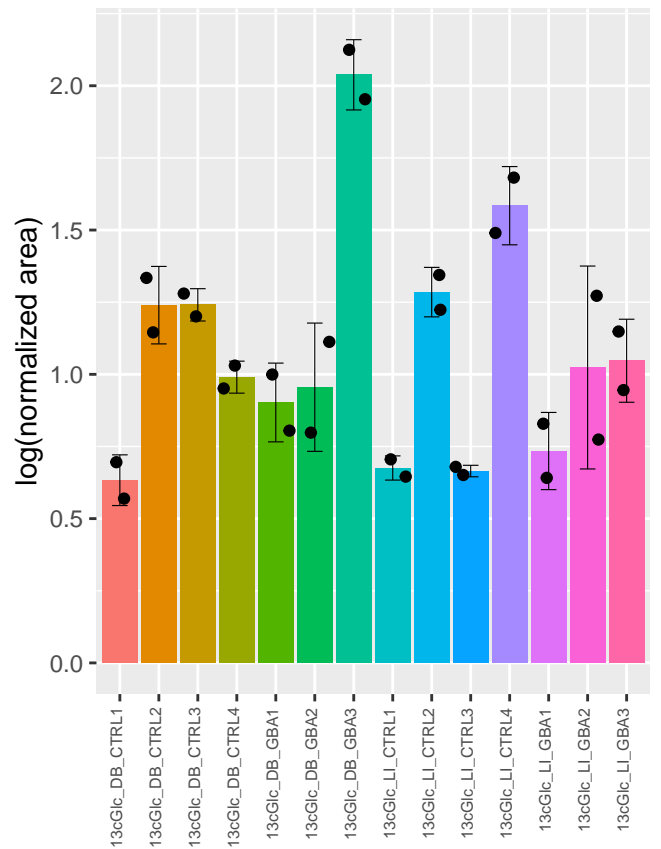
Choline

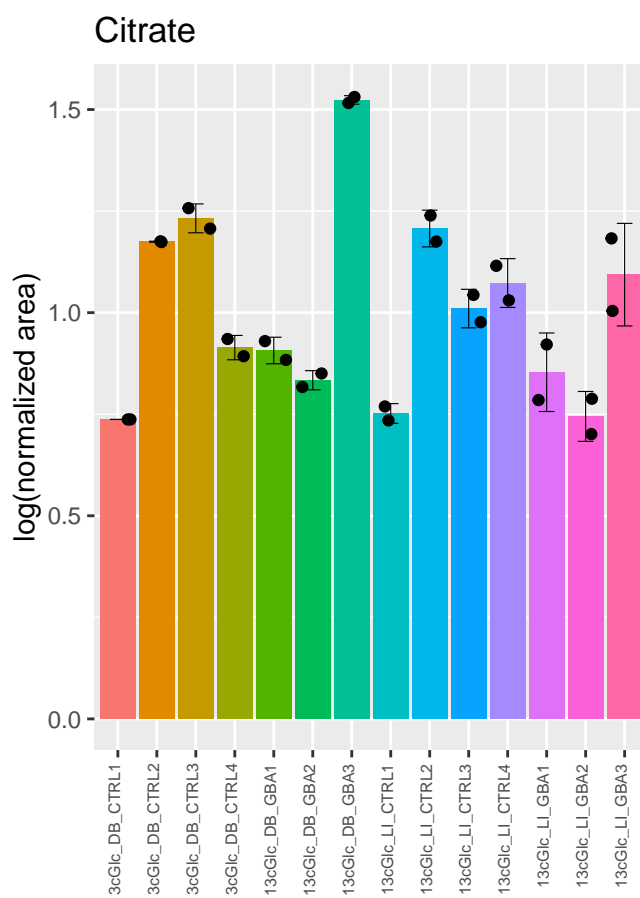
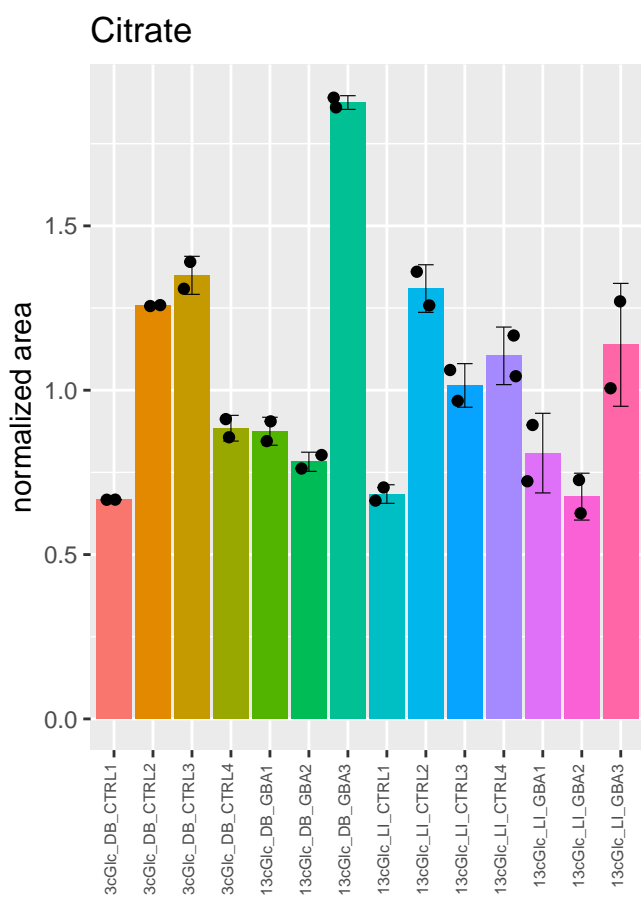
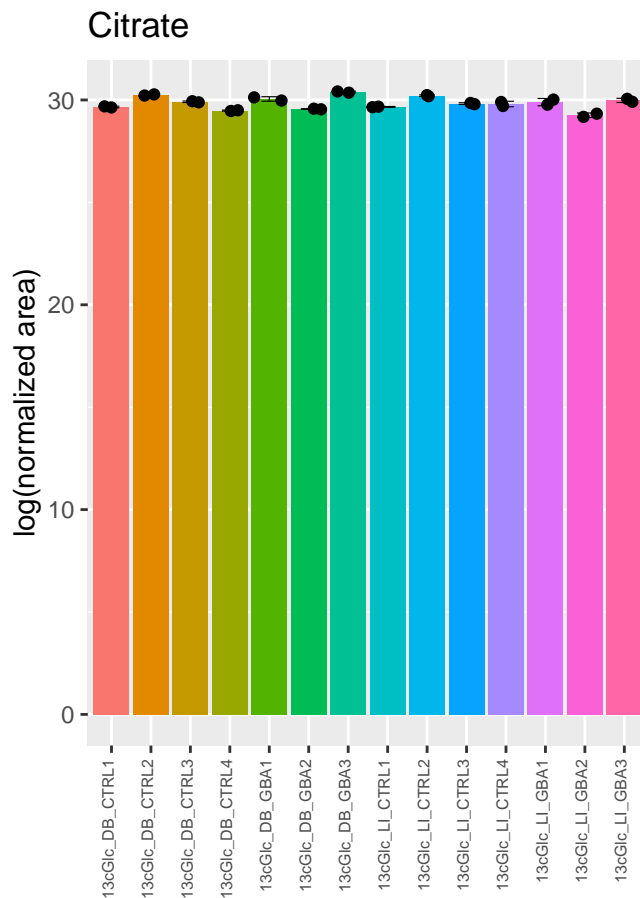
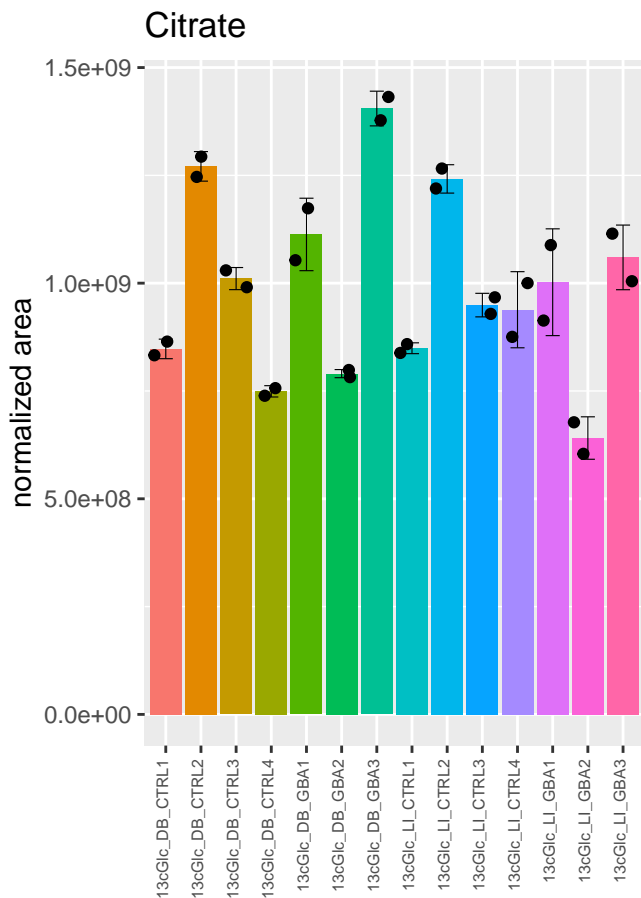


Choline

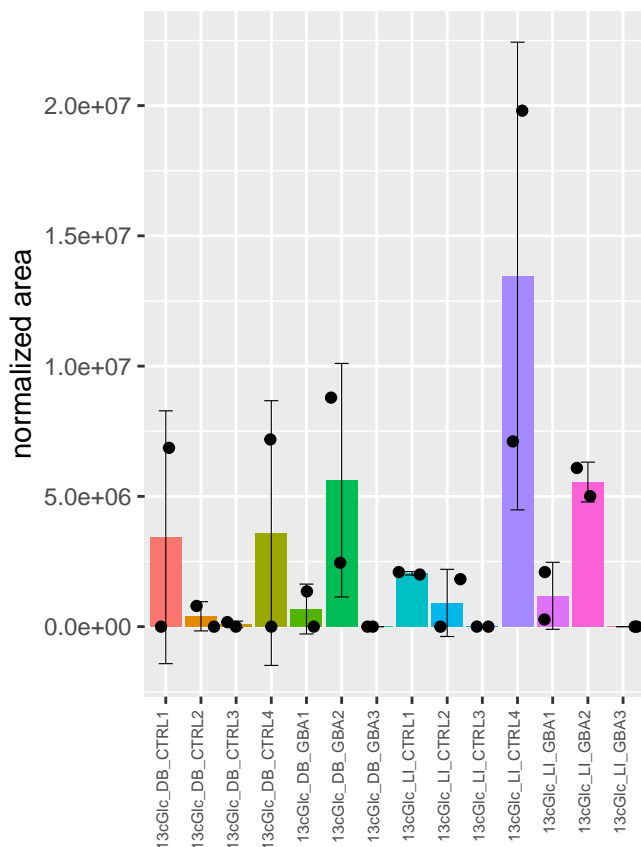


Choline

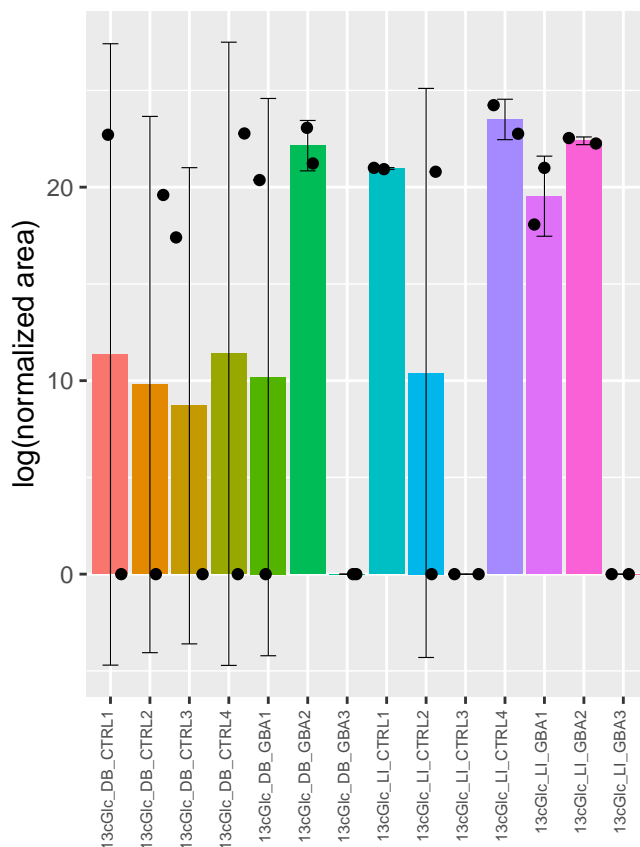




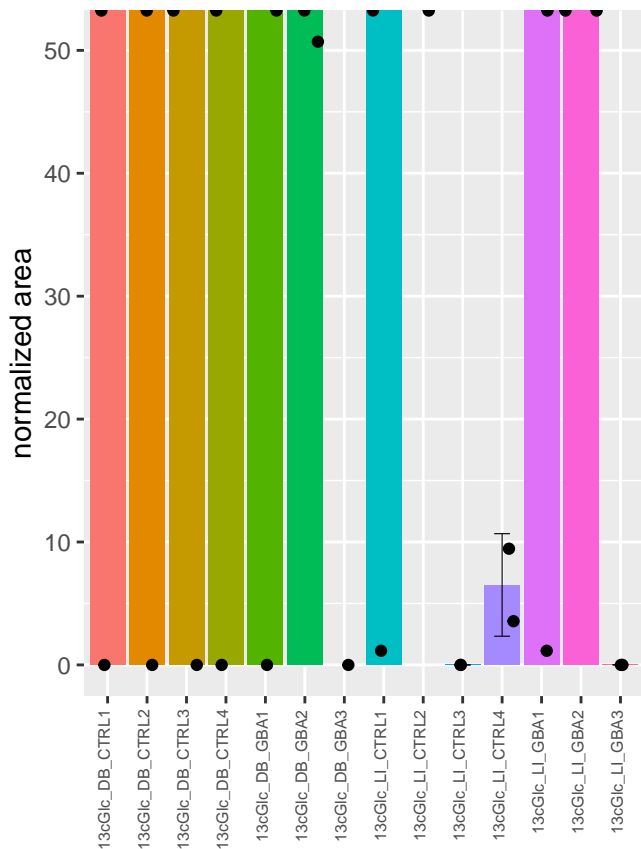
Citrulline



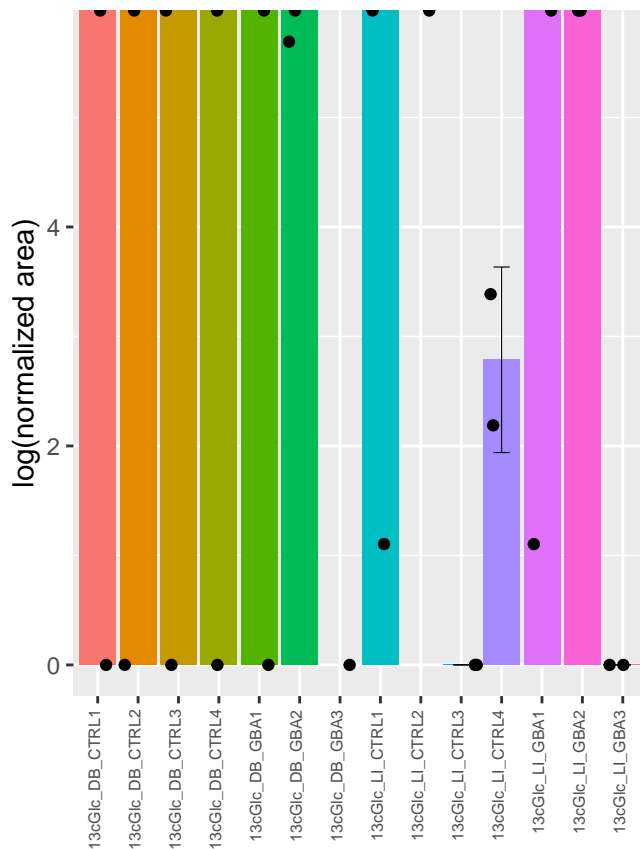
Citrulline



Citrulline

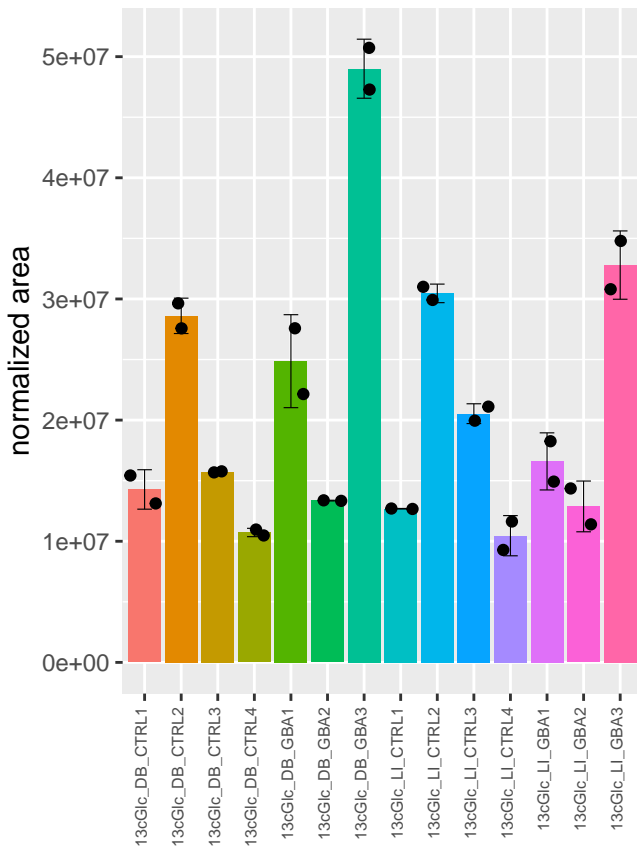


Citrulline

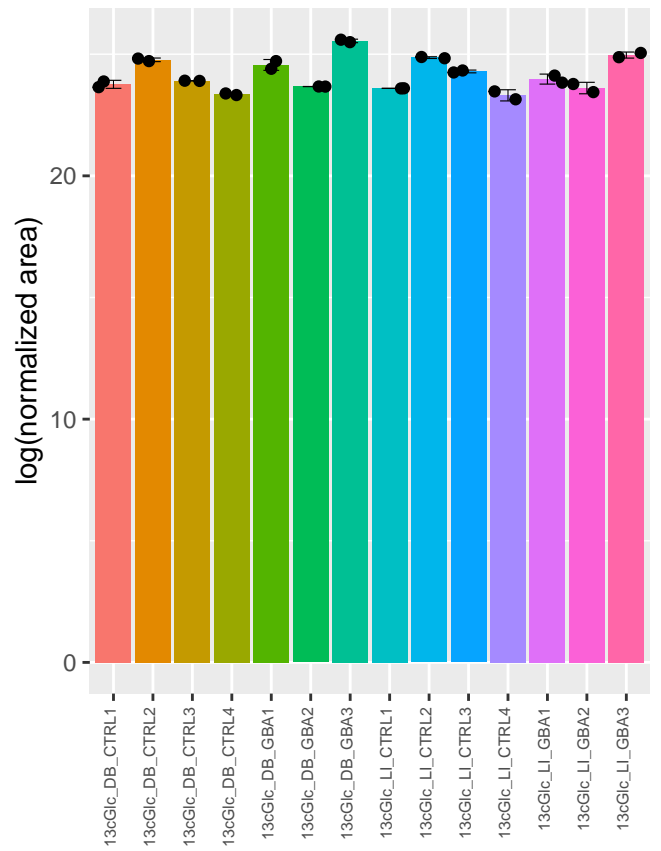


without PCV normalization

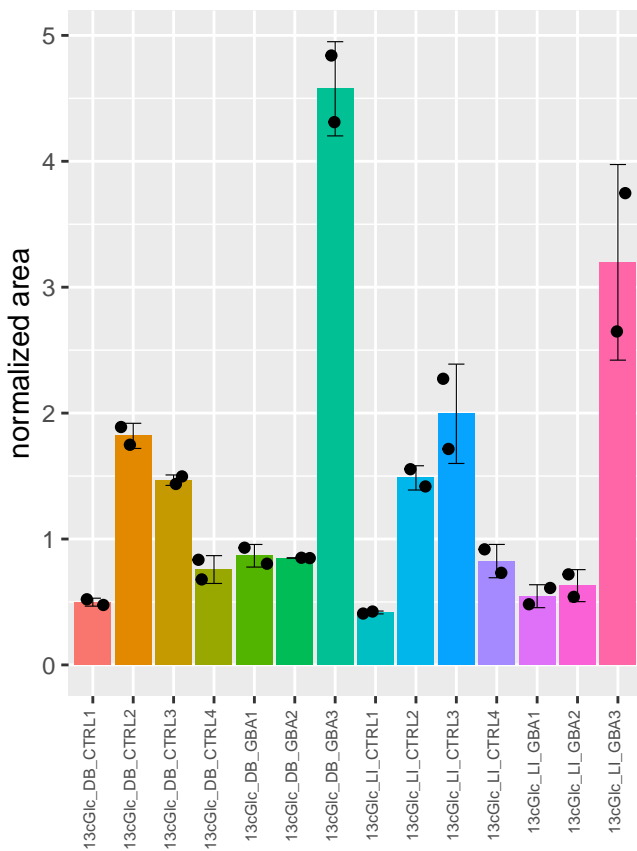
CTP



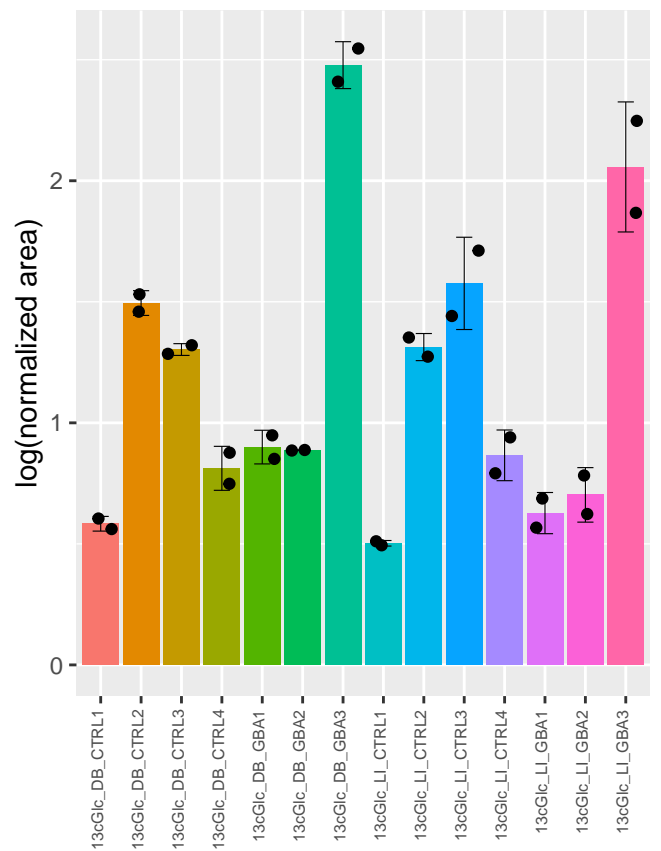
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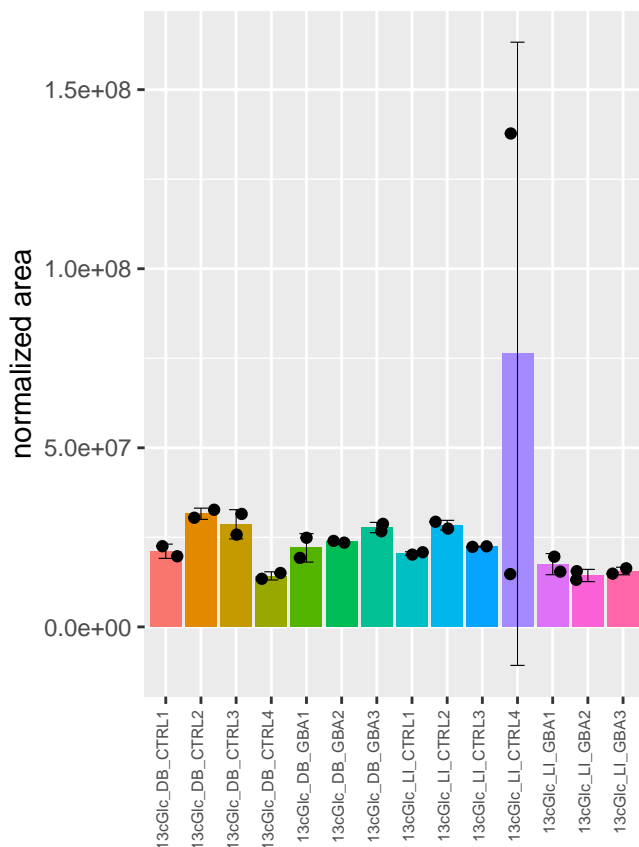
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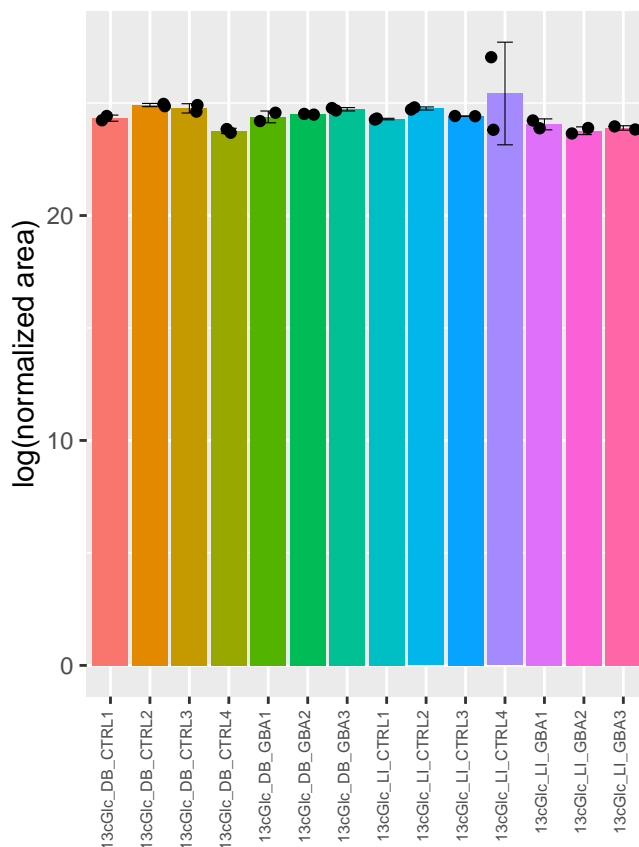
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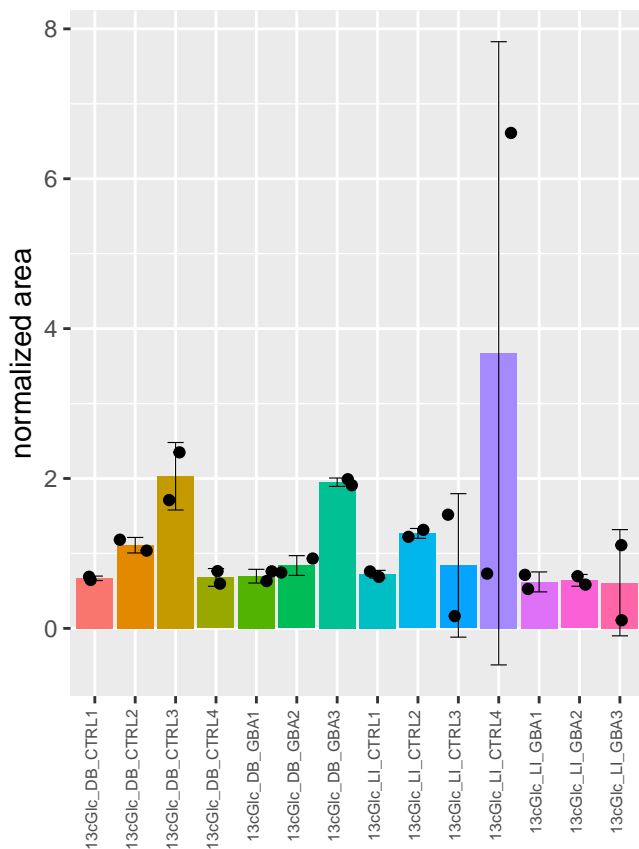
Cystathionine



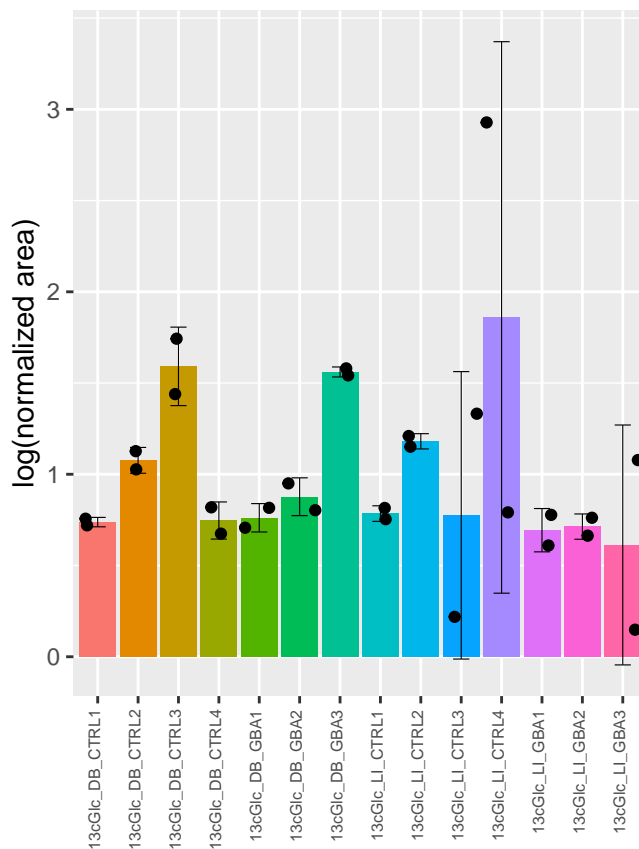
Cystathionine



Cystathionine

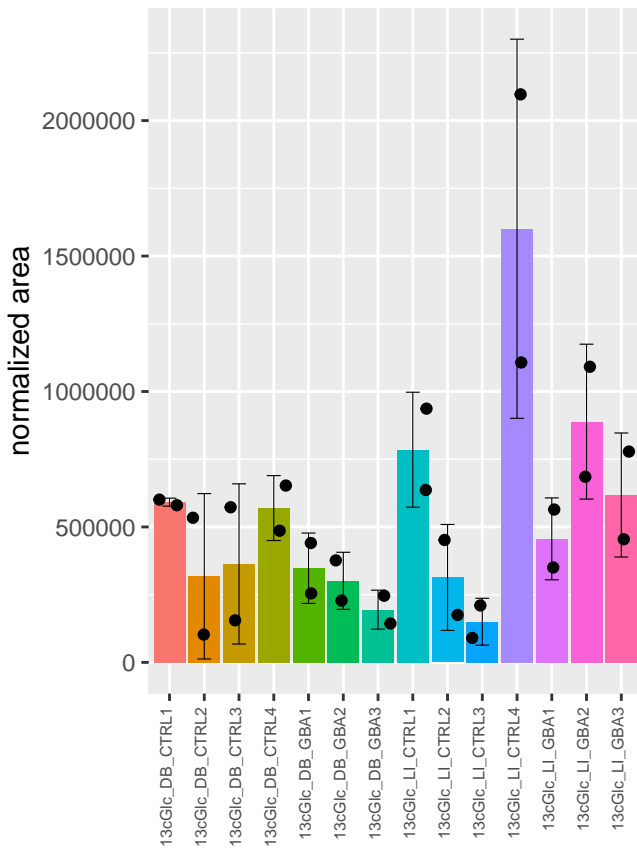


Cystathionine

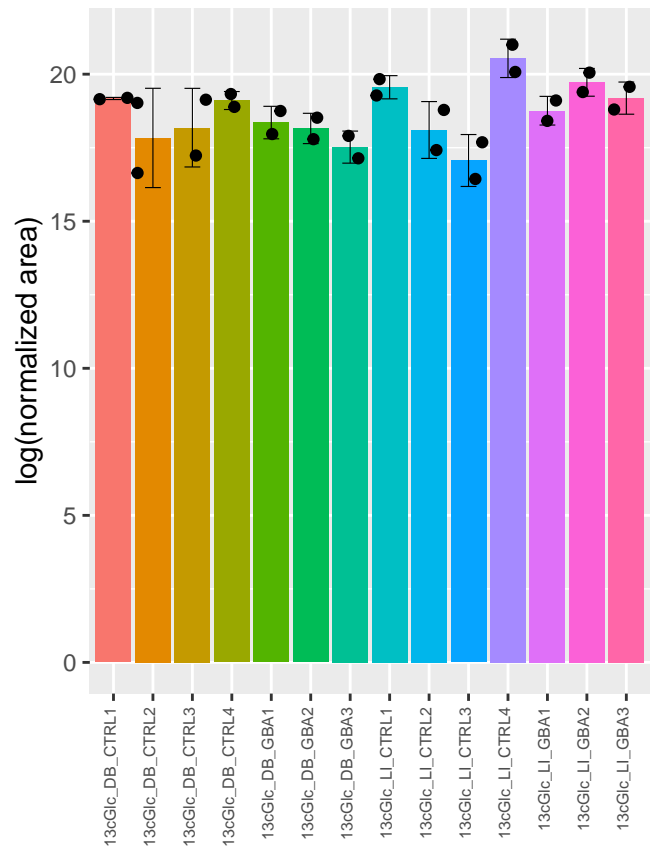


without PCV normalization

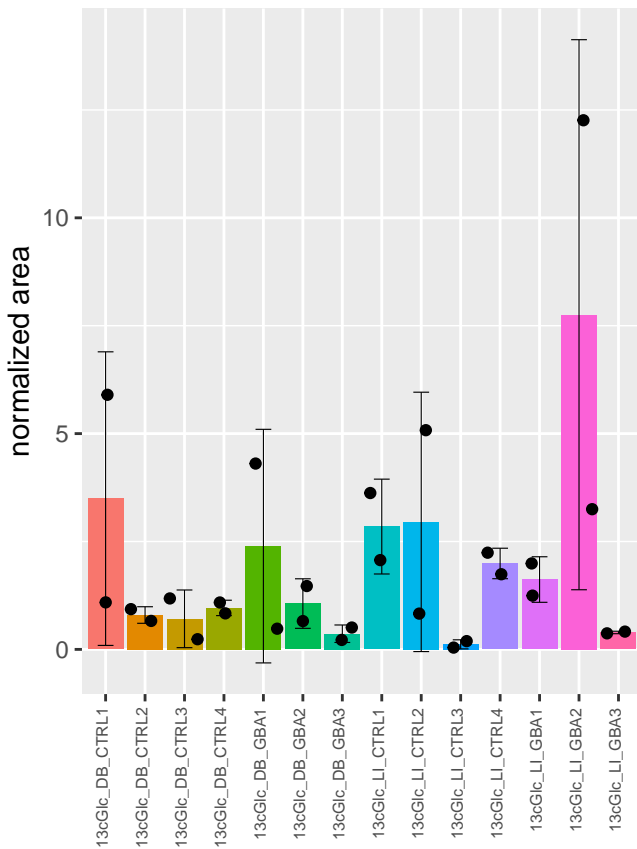
Cysteine



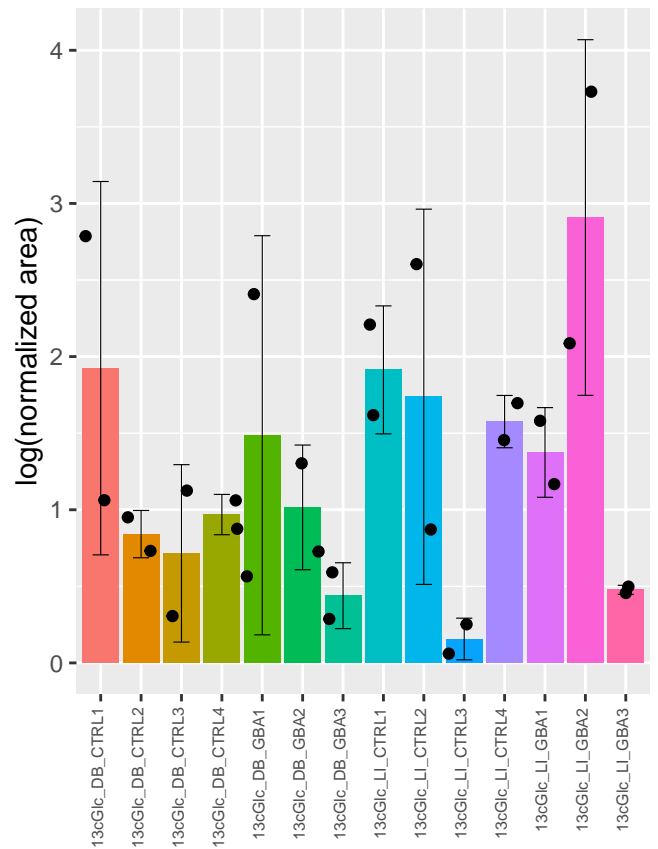
Cysteine



Cysteine

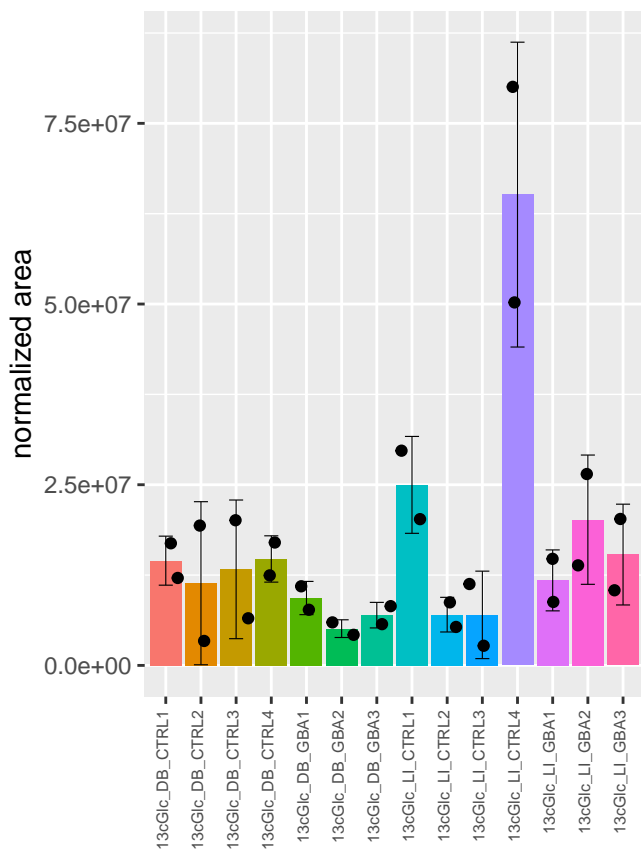


Cysteine

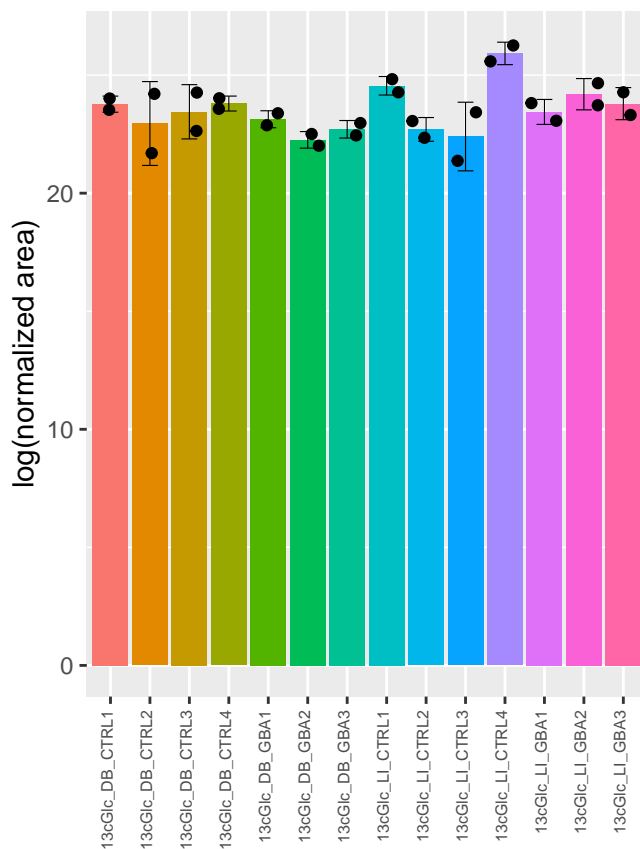


without PCV normalization

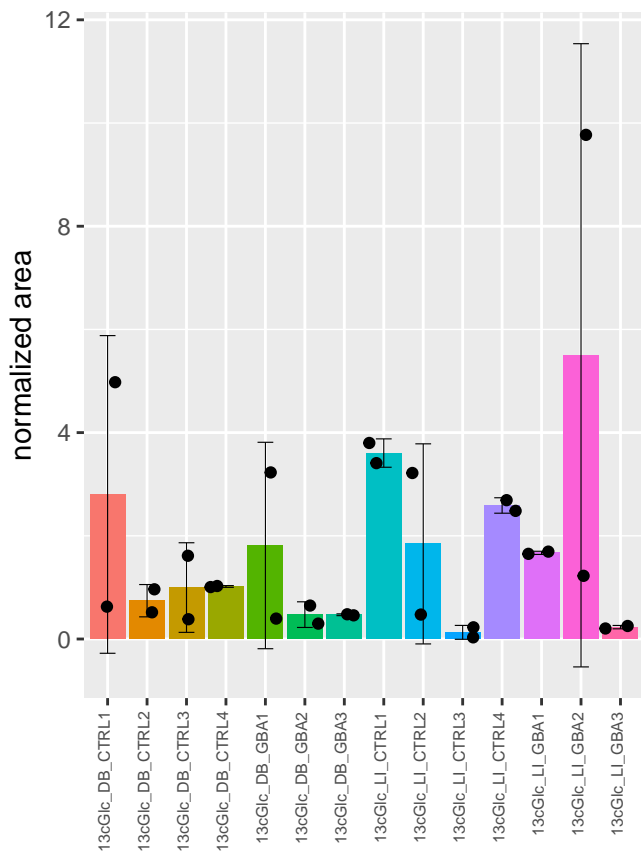
Cystine



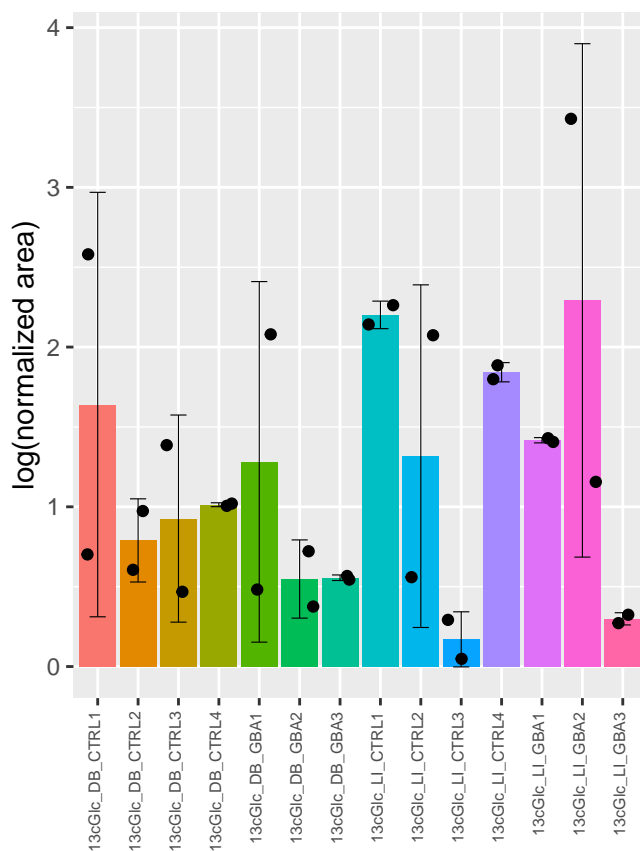
Cystine

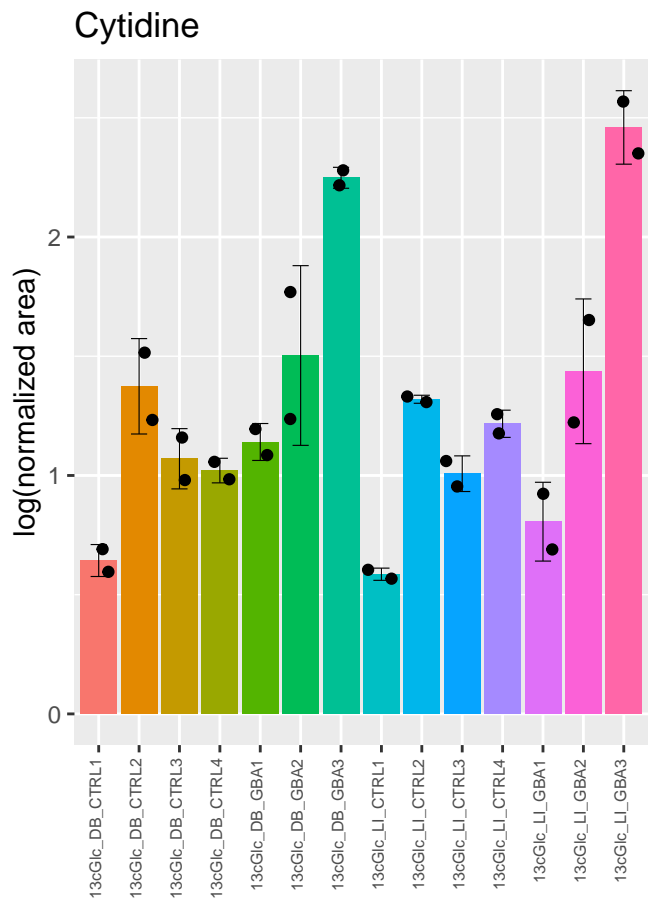
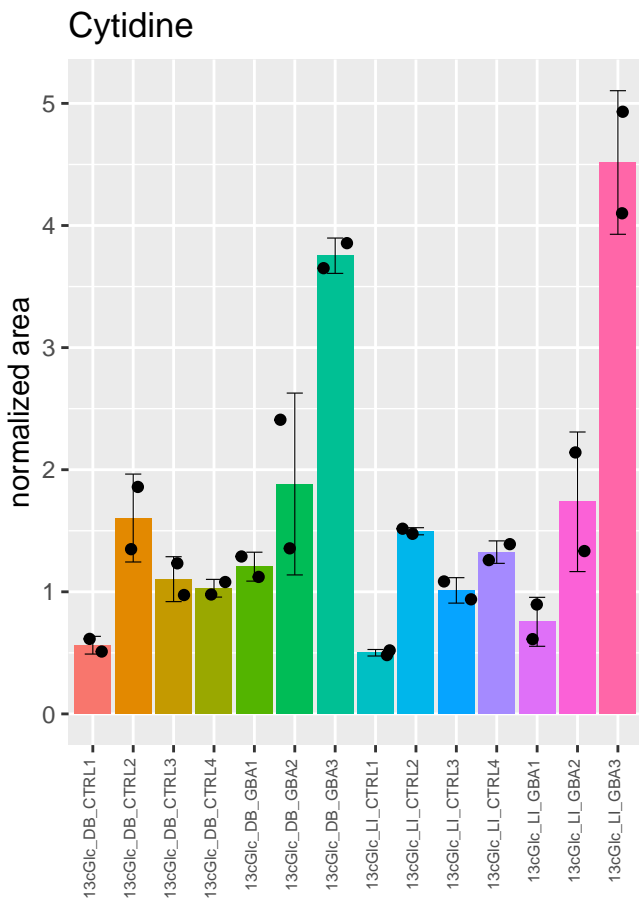
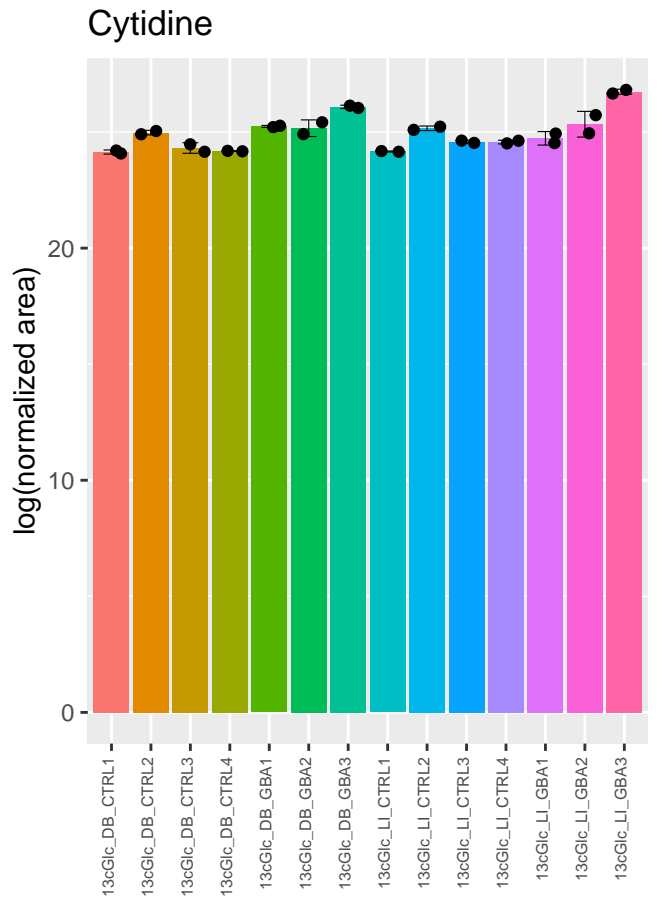
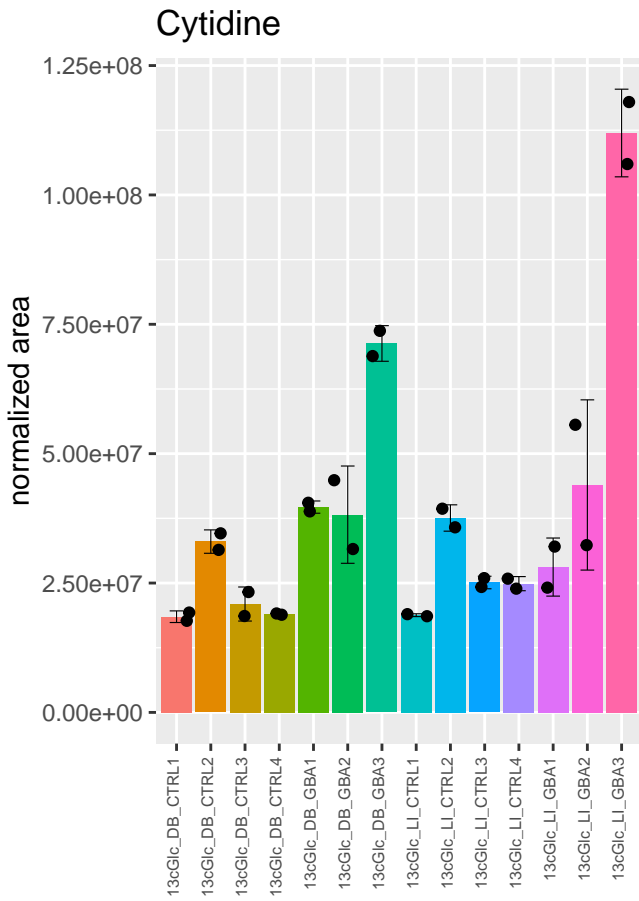


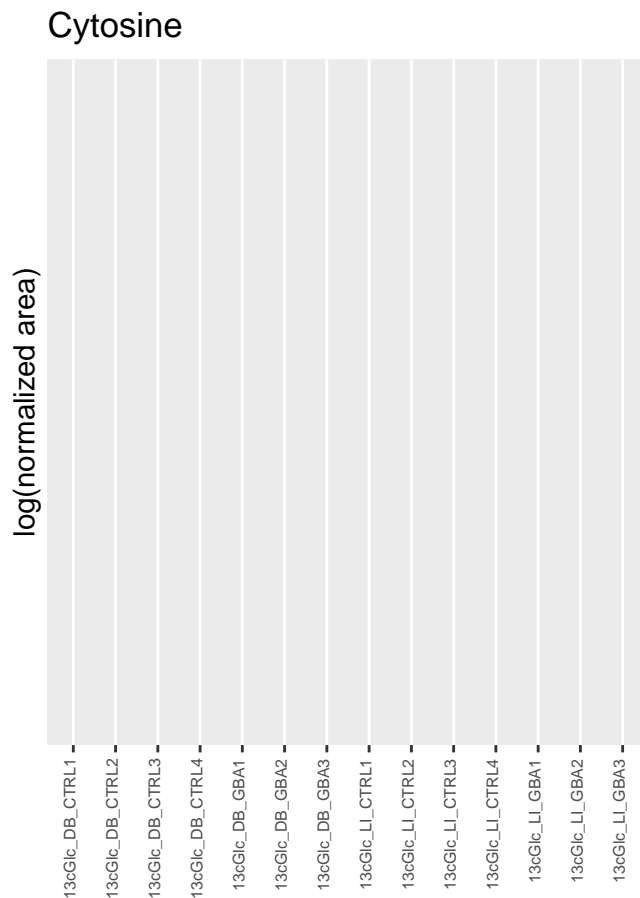
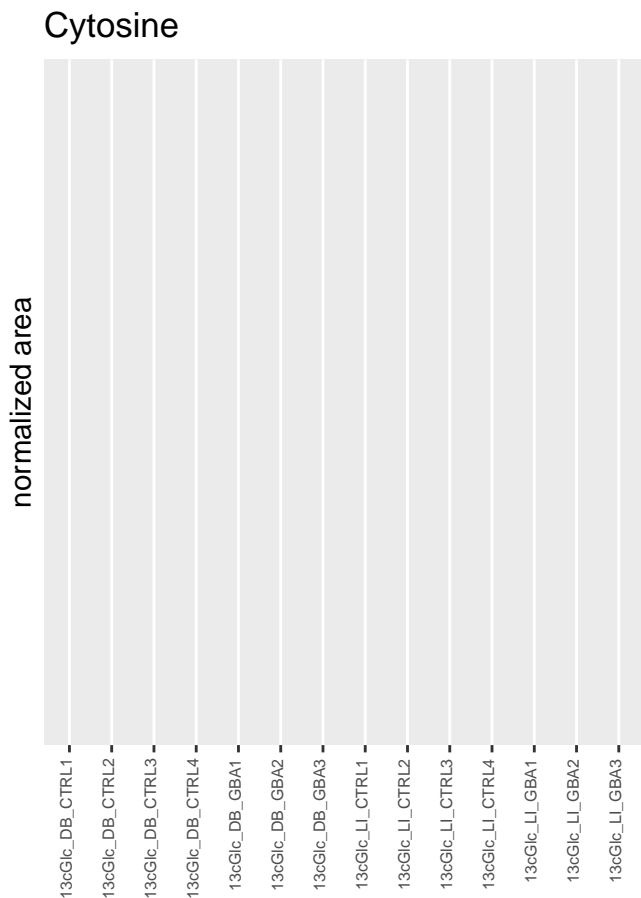
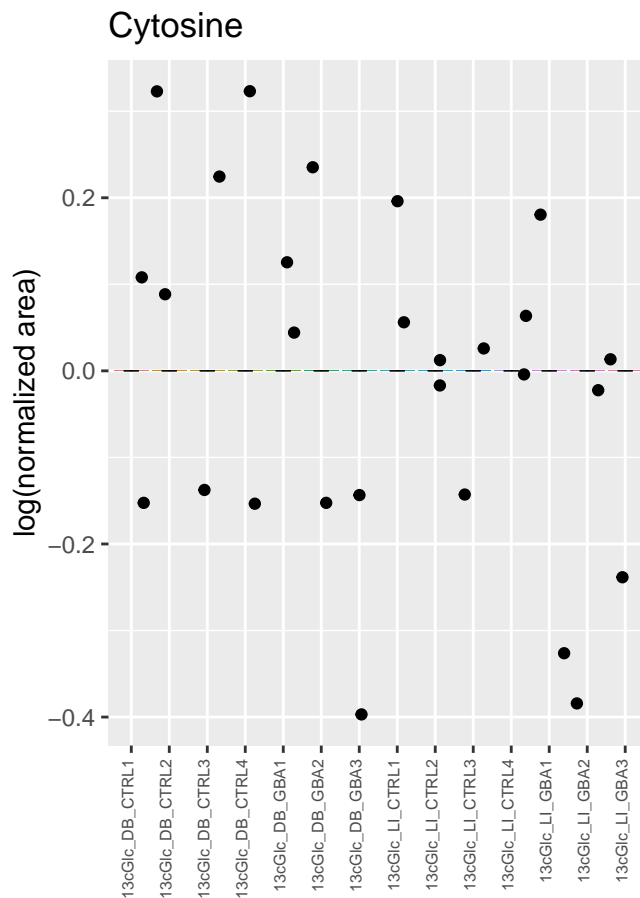
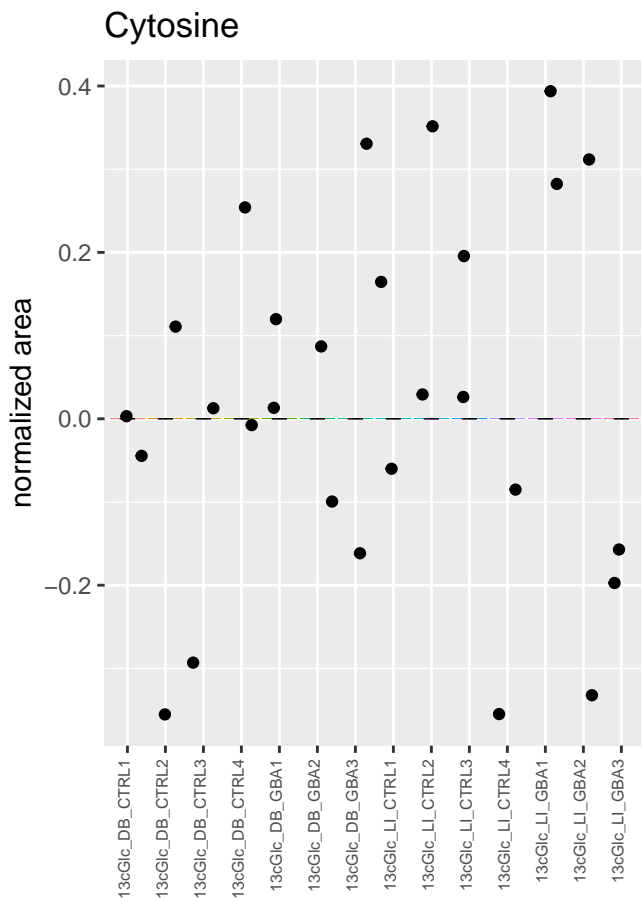
Cystine



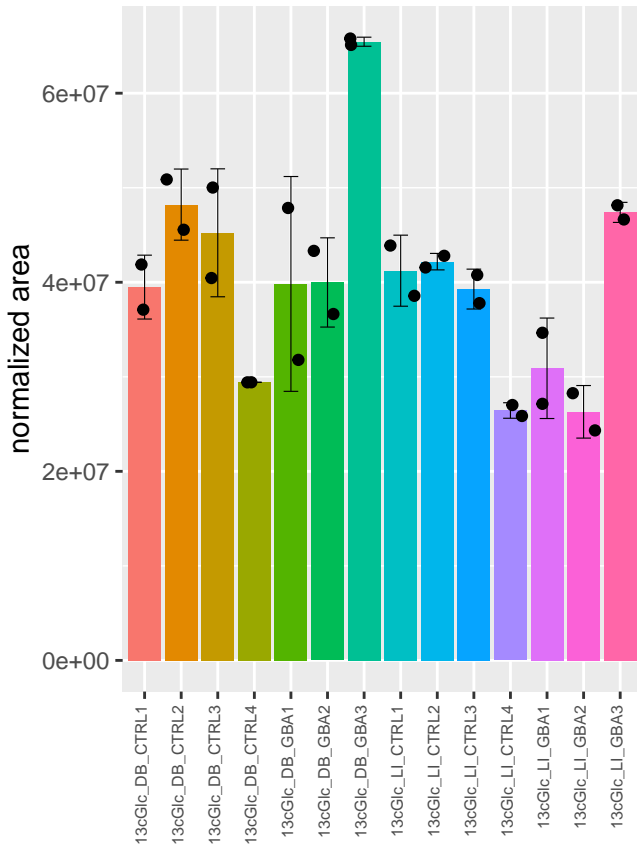
Cystine



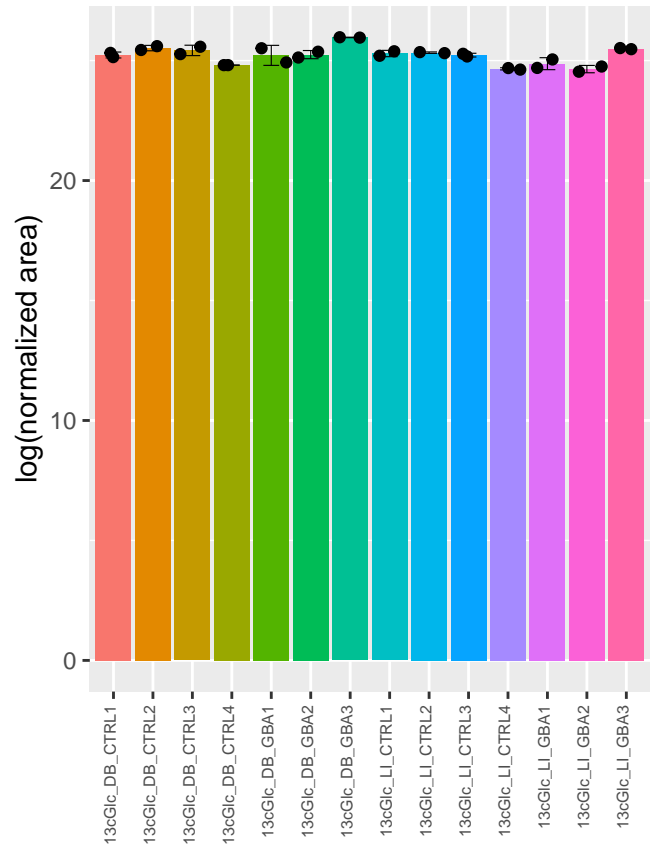




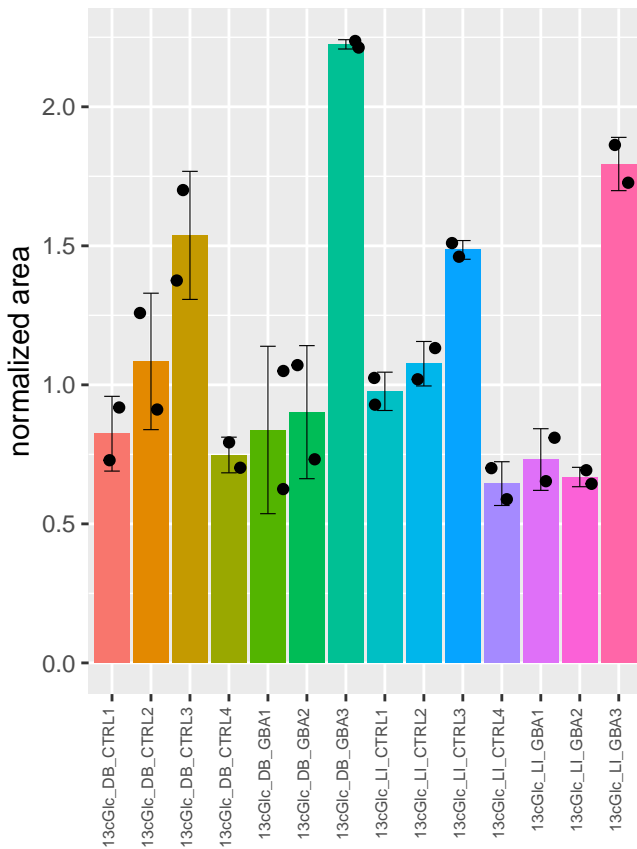
Fructose 6-phosphate



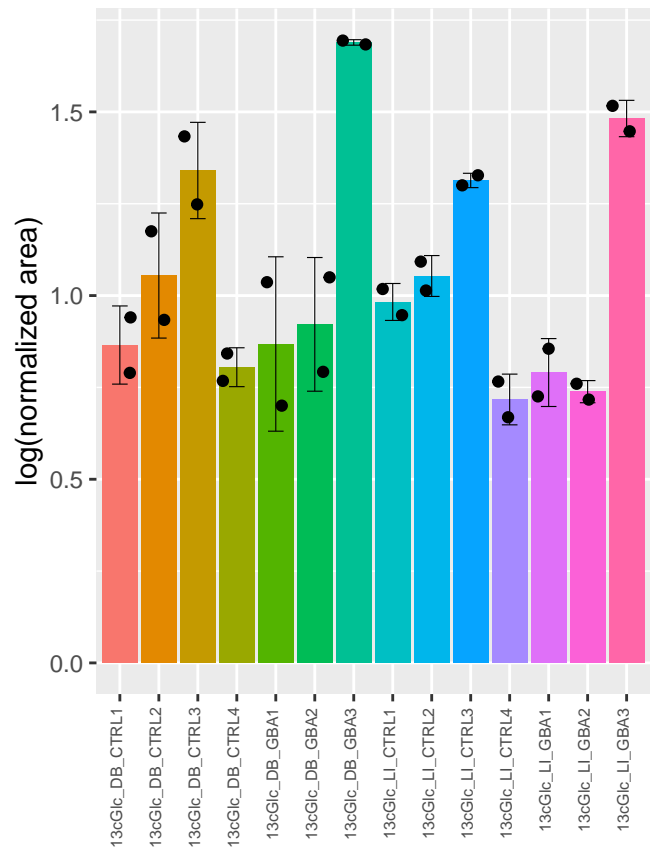
Fructose 6-phosphate



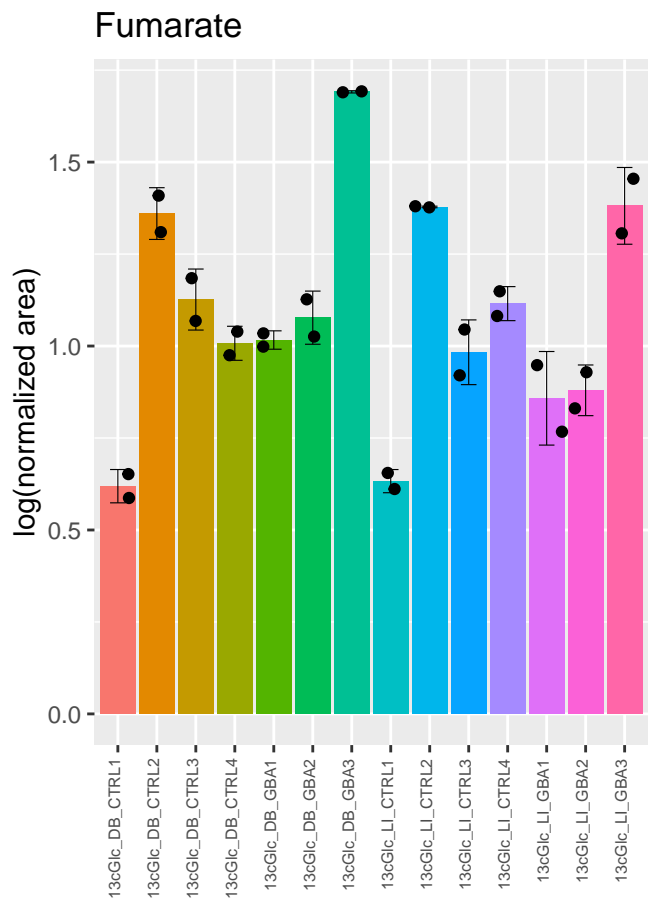
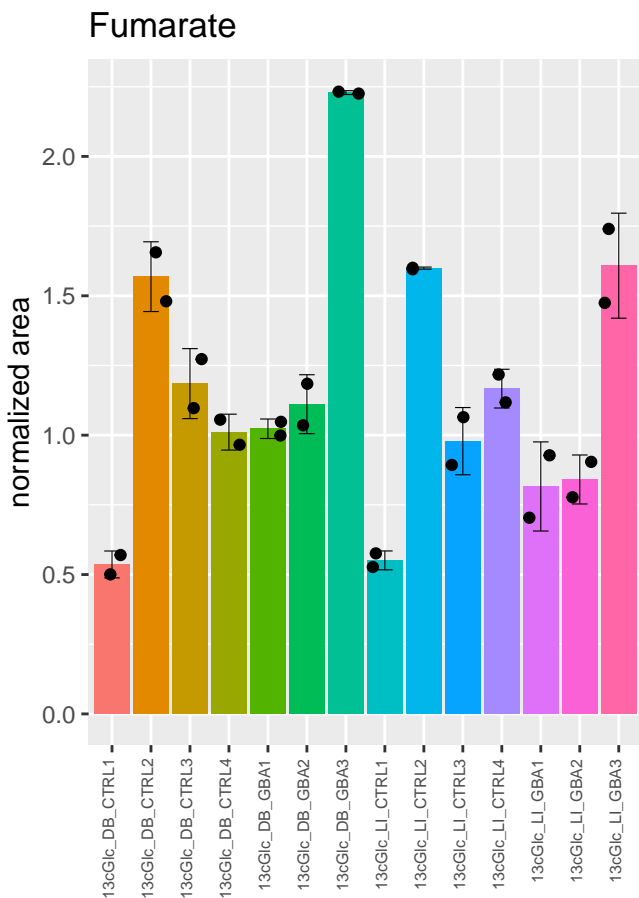
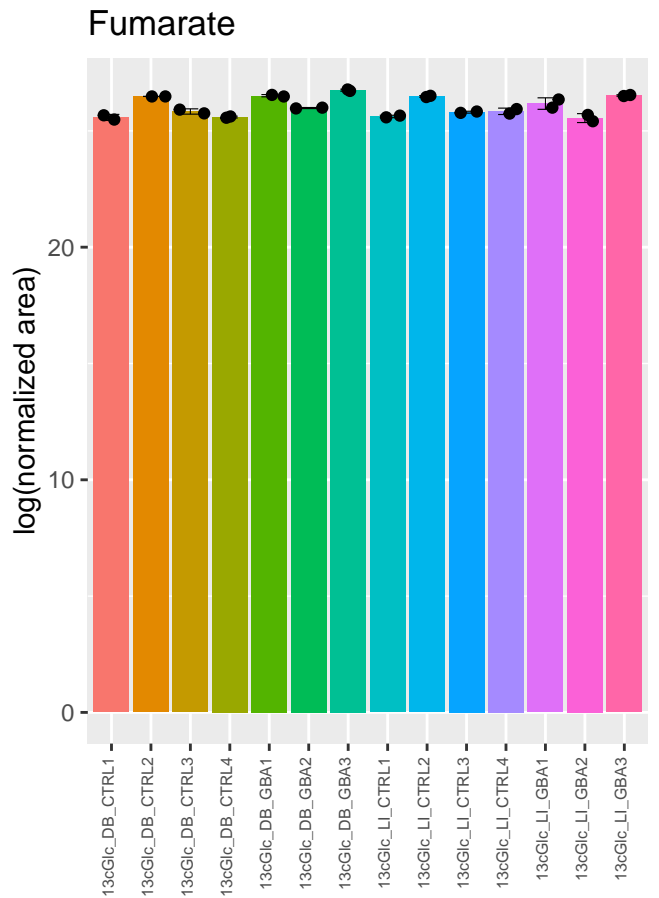
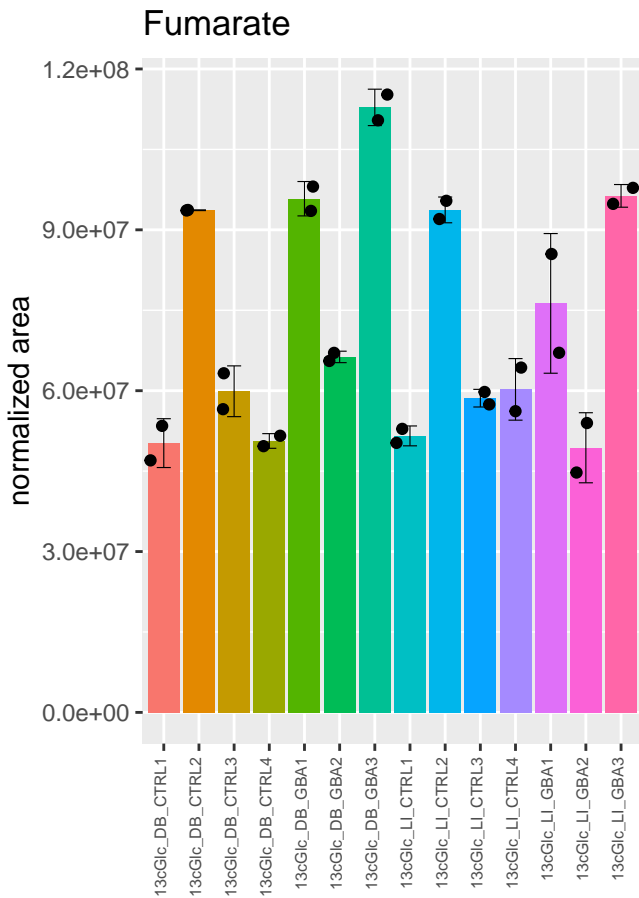
Fructose 6-phosphate



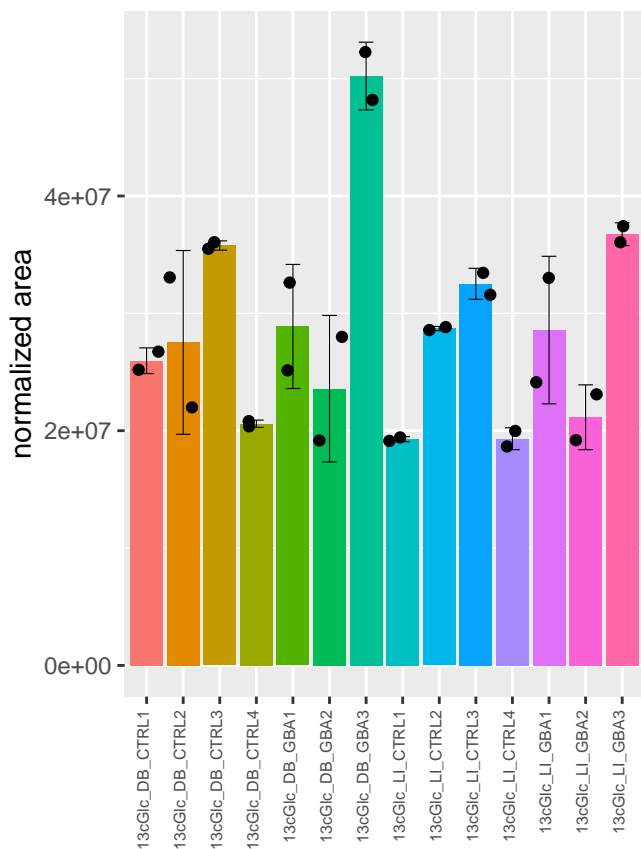
Fructose 6-phosphate



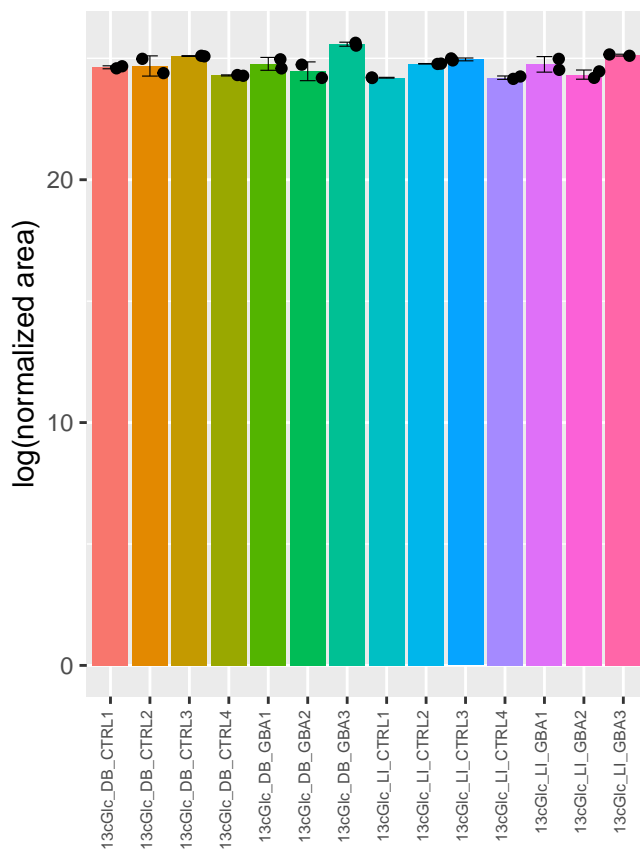
without PCV normalization



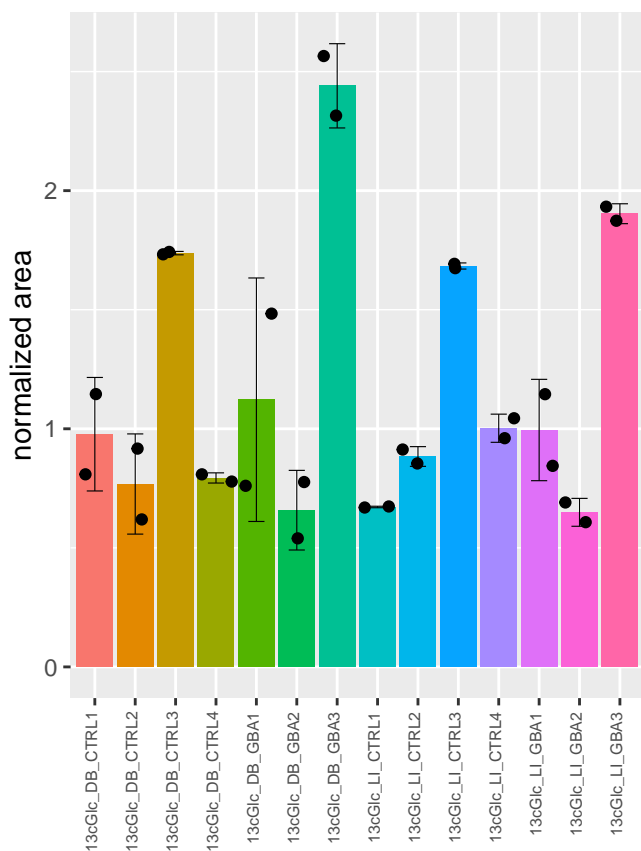
G6P



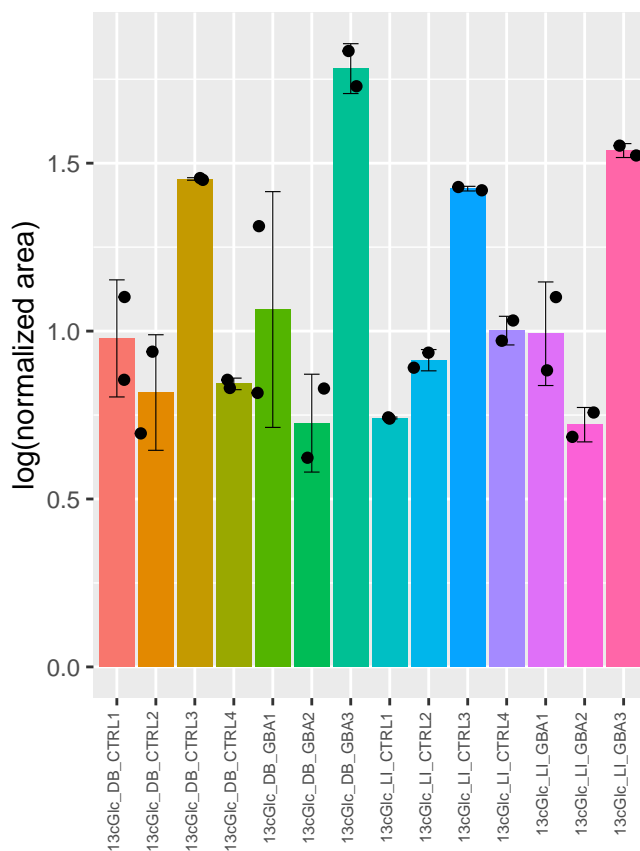
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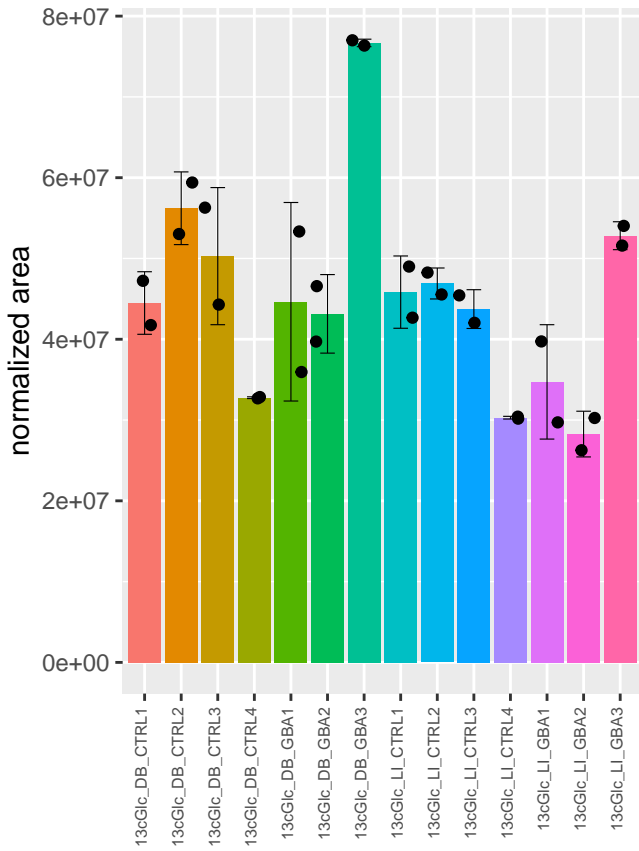
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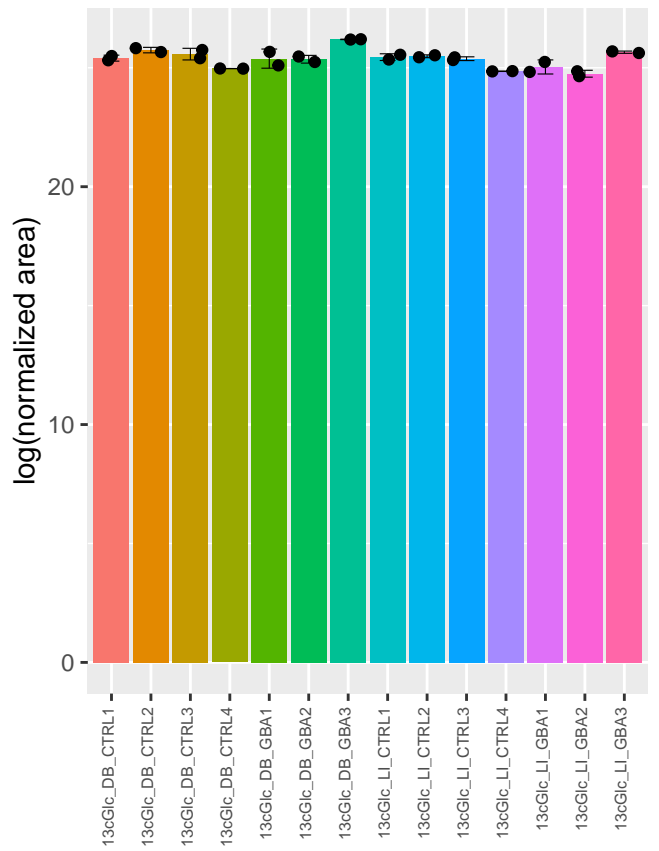
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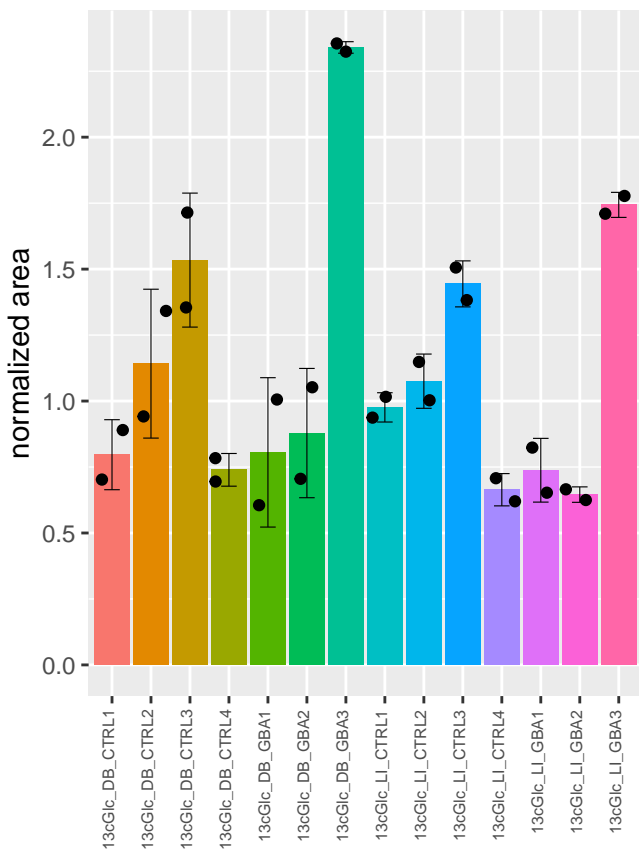
Galactose 1-phosphate



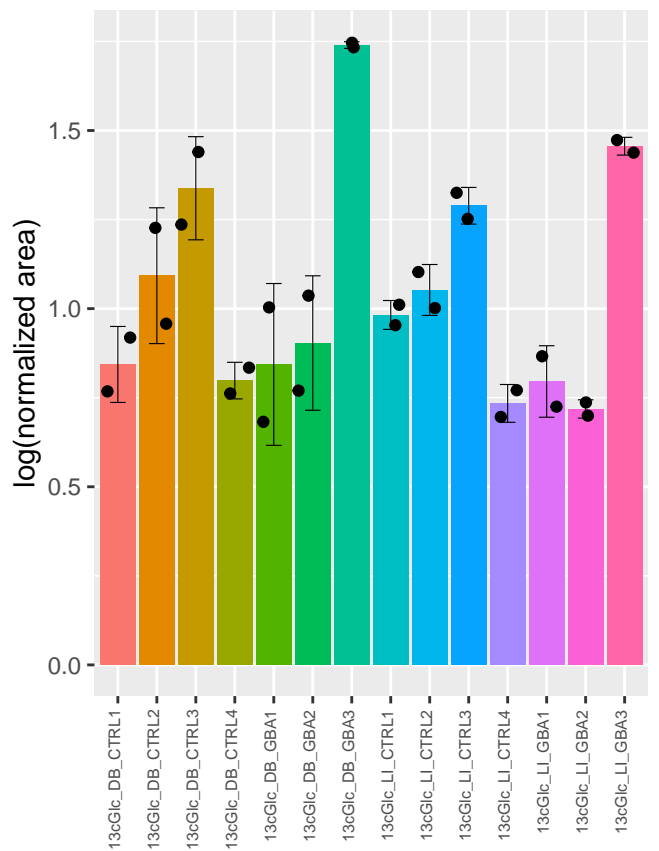
Galactose 1-phosphate



Galactose 1-phosphate

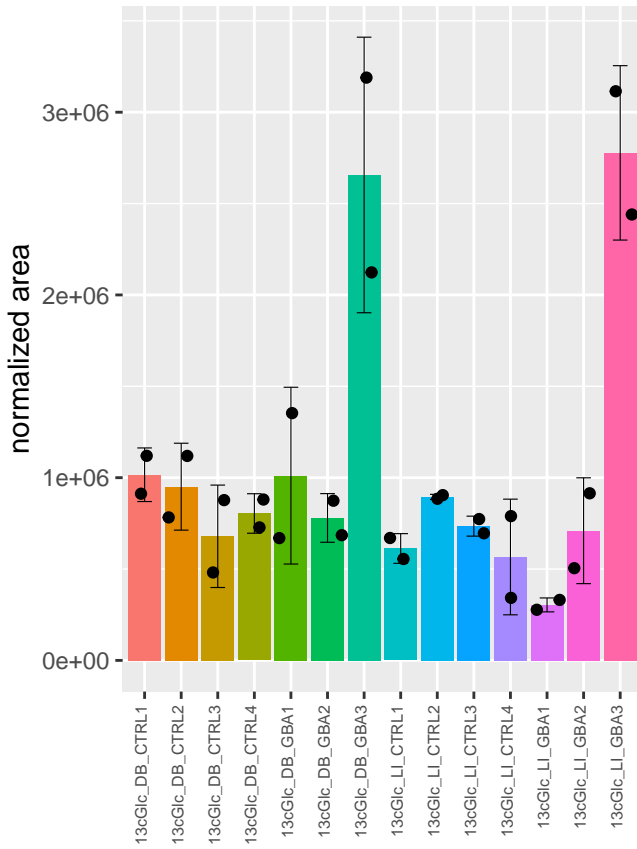


Galactose 1-phosphate

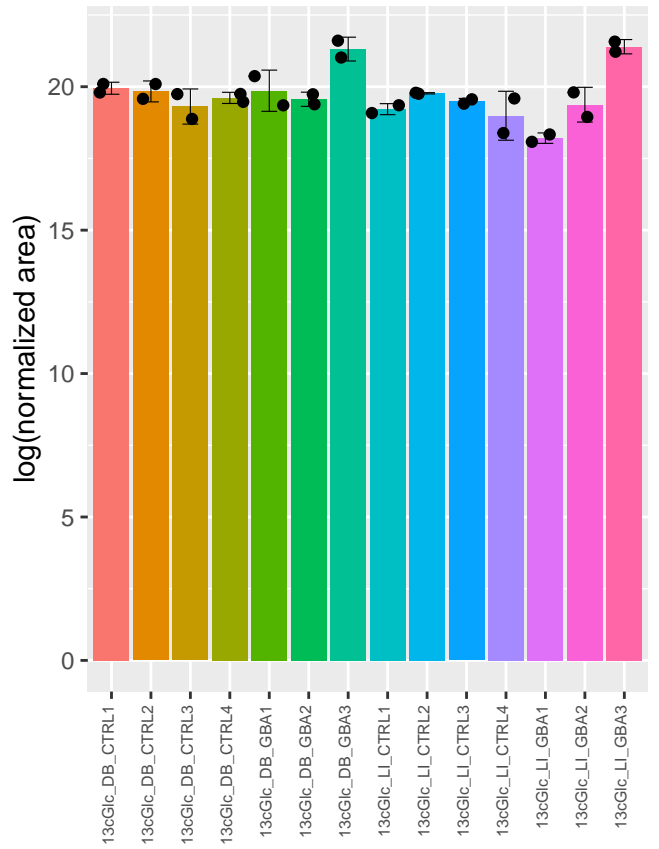


without PCV normalization

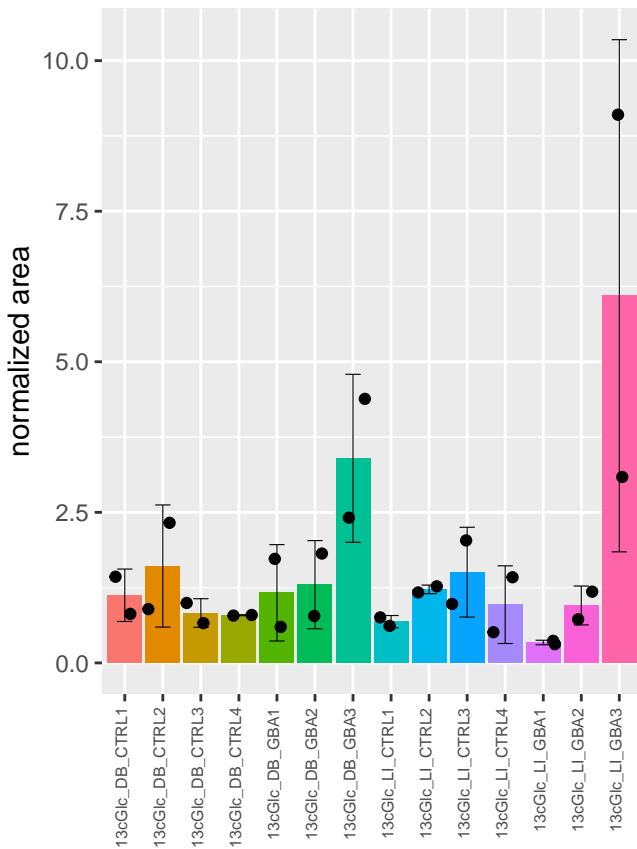
Gamma-glutamylcysteine



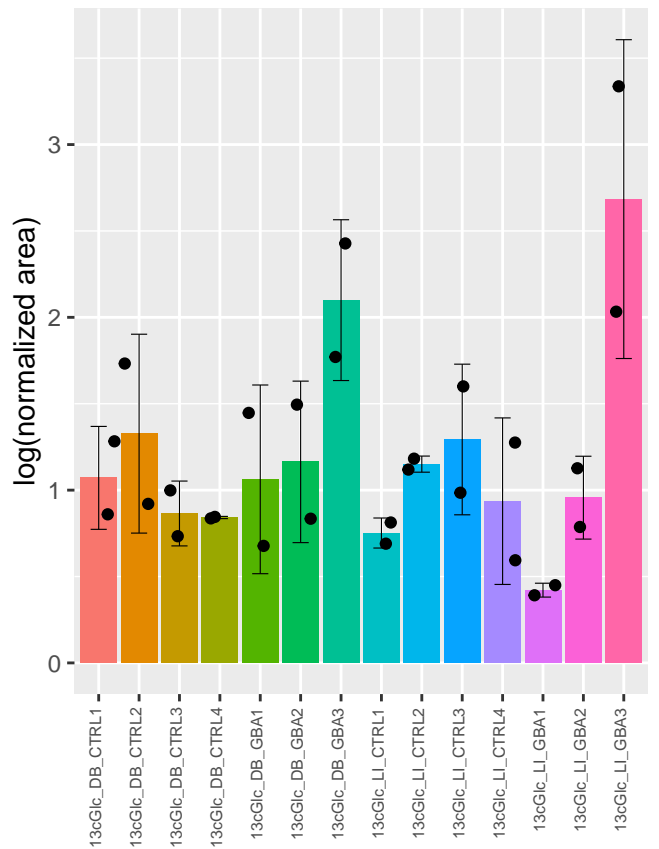
Gamma-glutamylcysteine



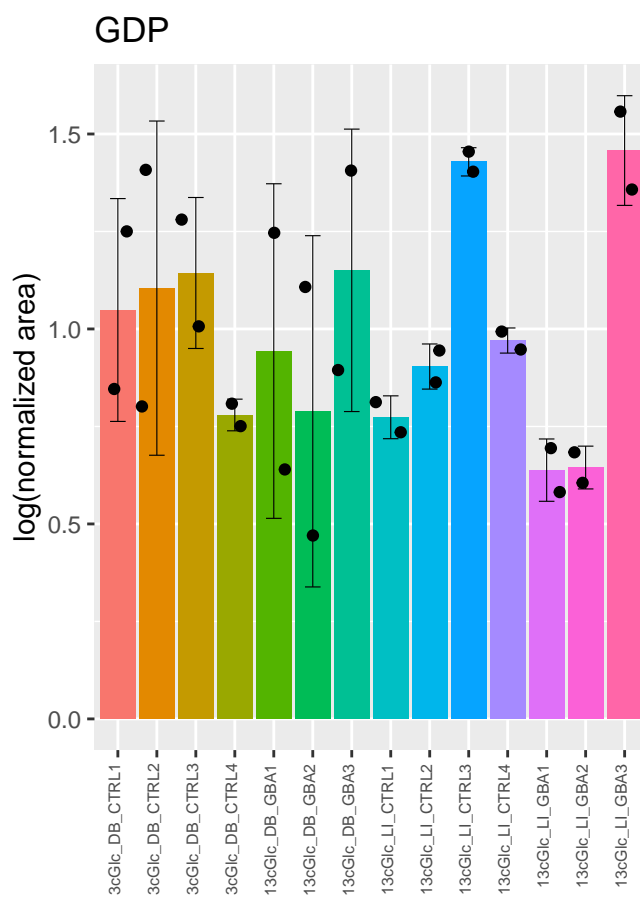
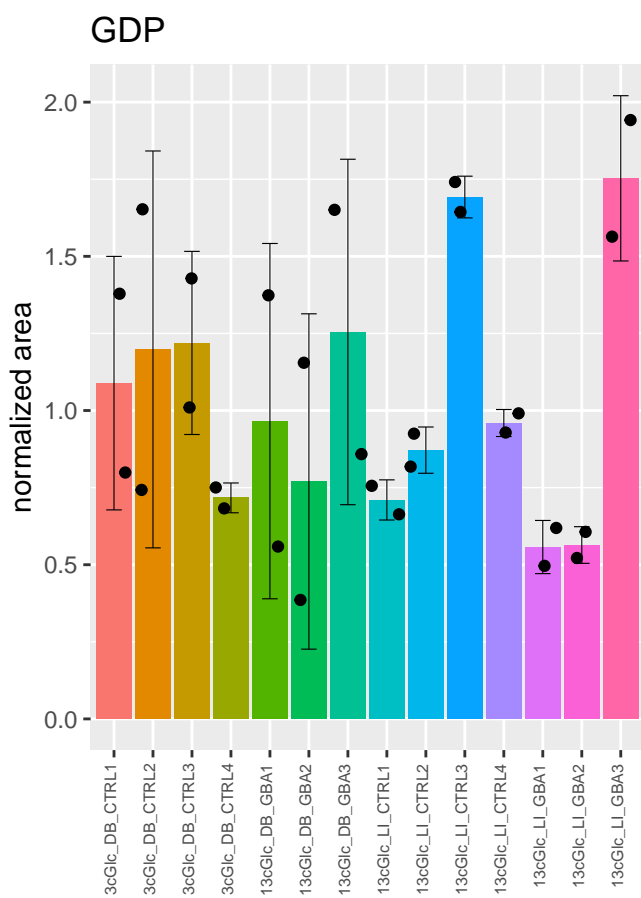
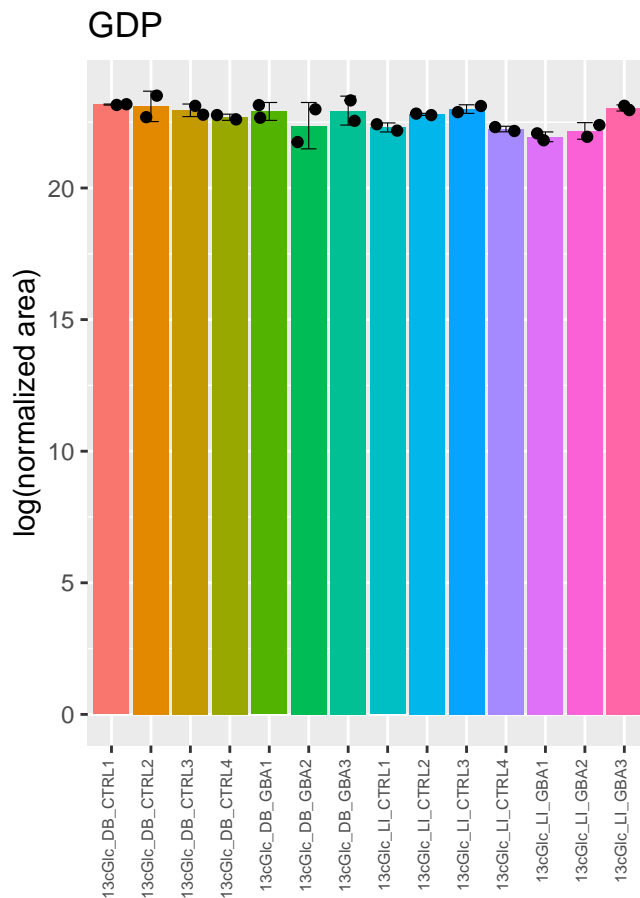
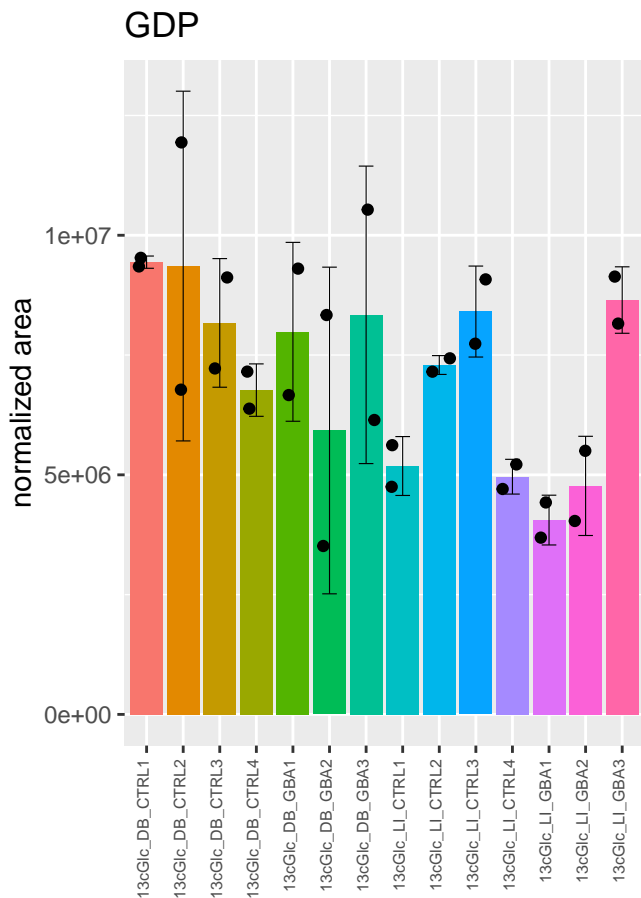
Gamma-glutamylcysteine

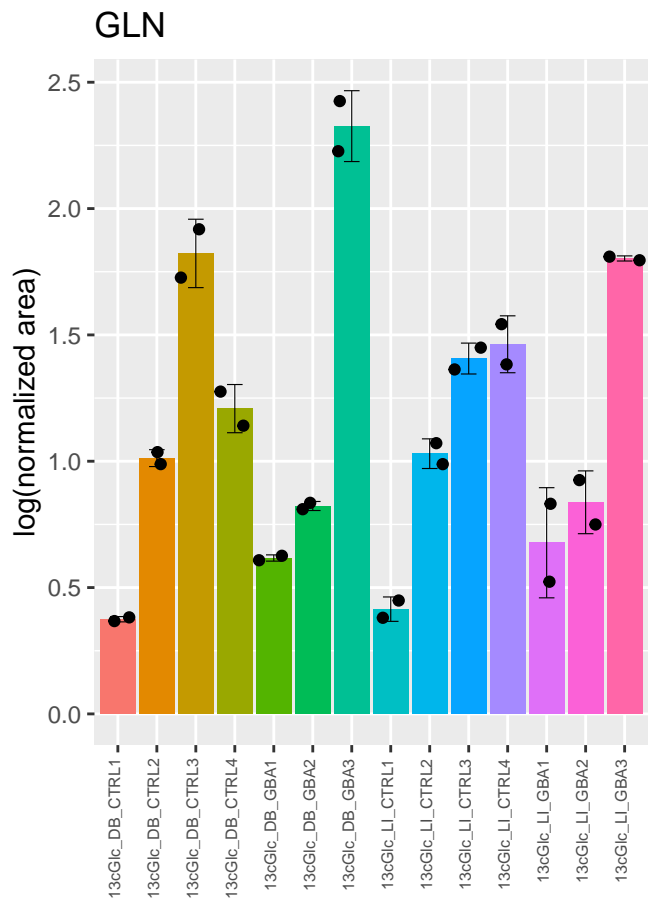
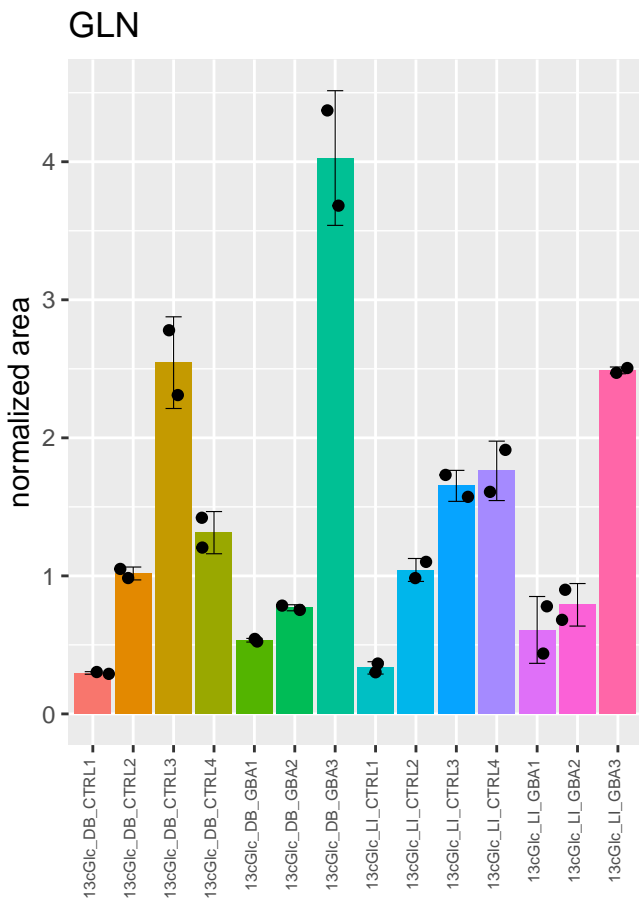
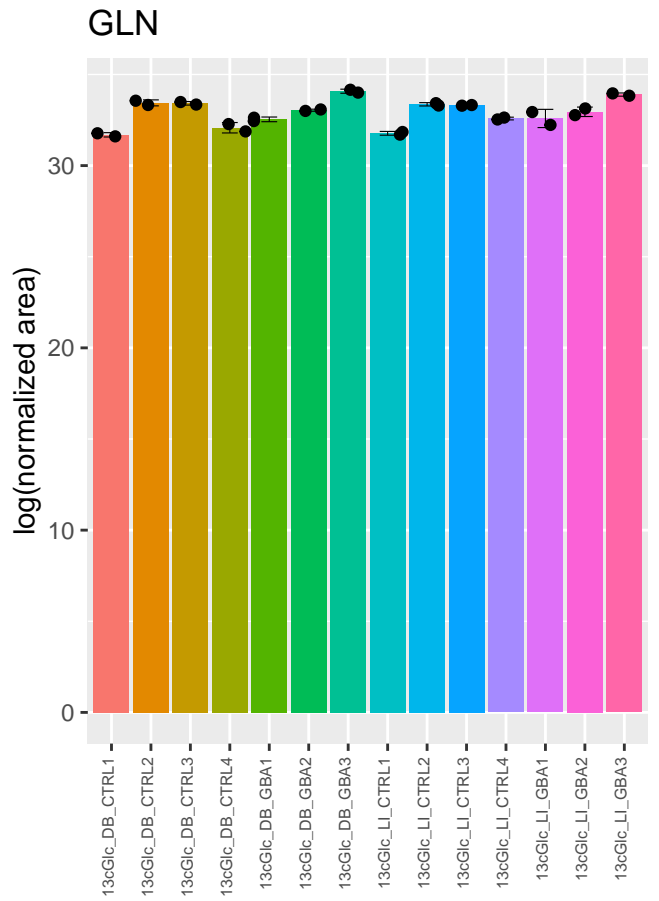
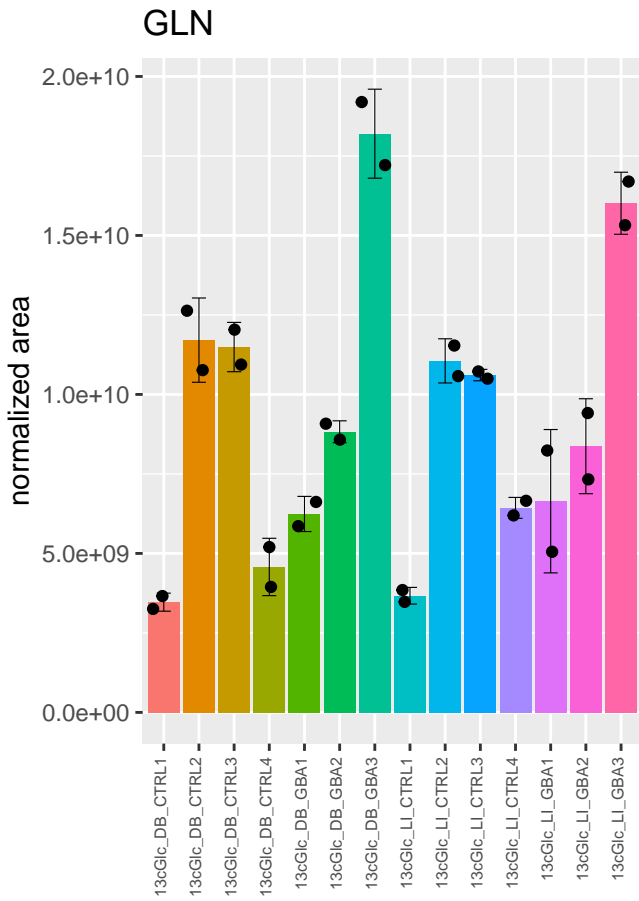


Gamma-glutamylcysteine

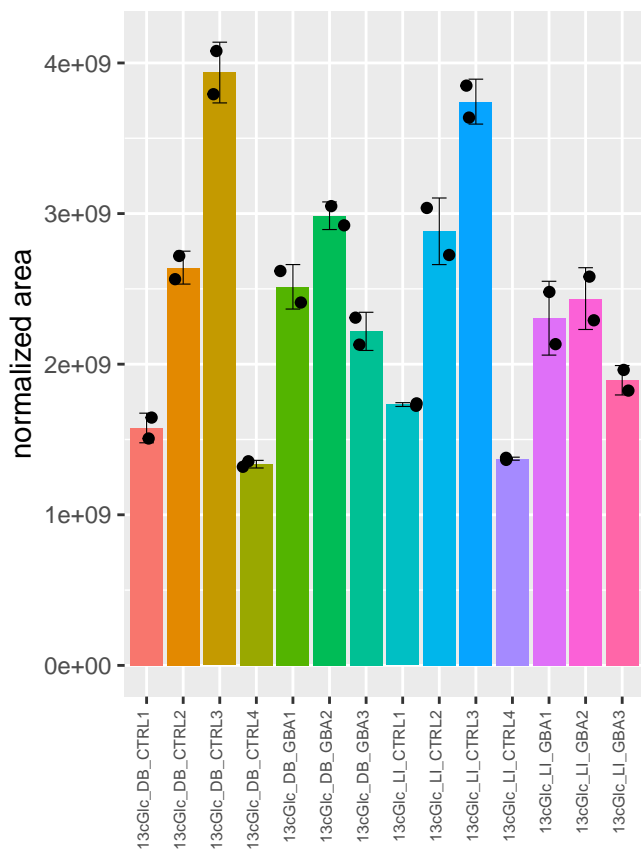


without PCV normalization

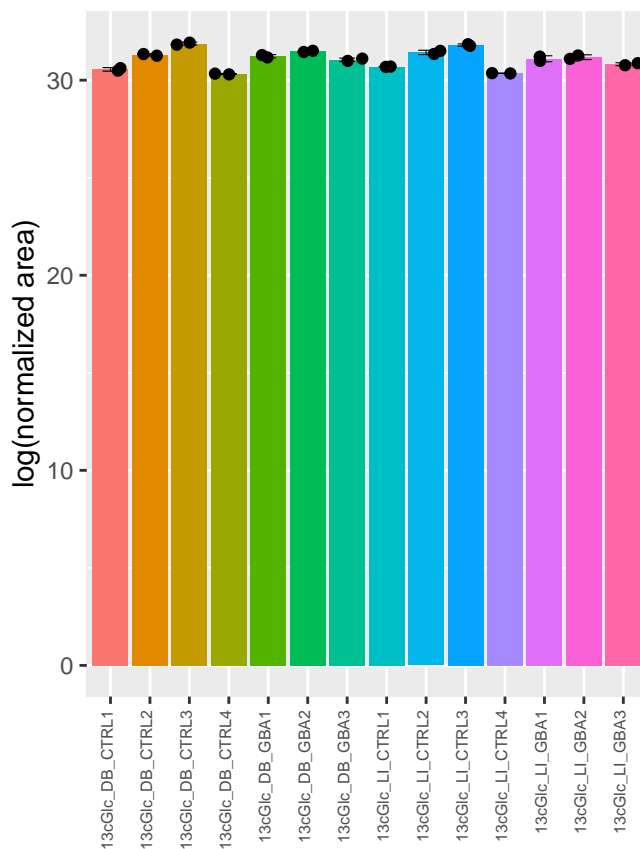




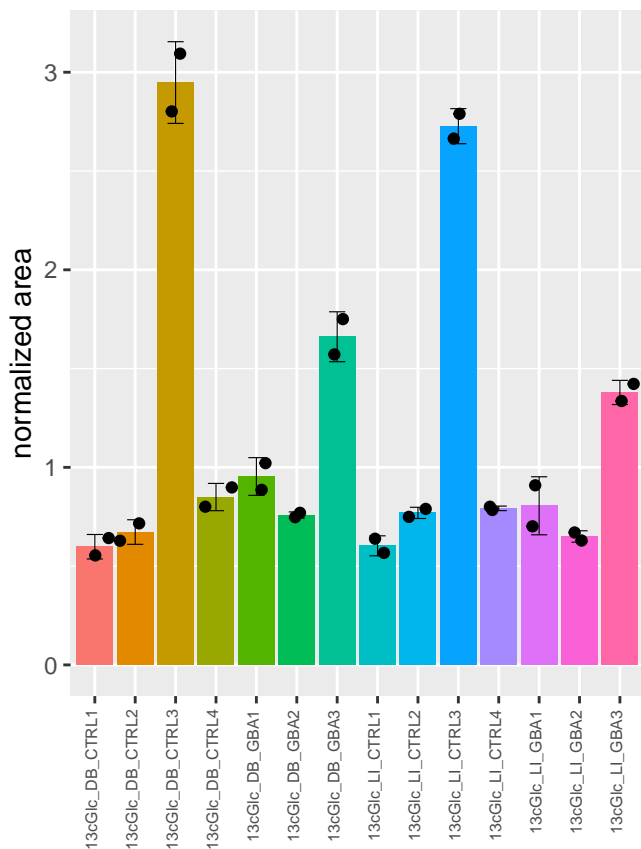
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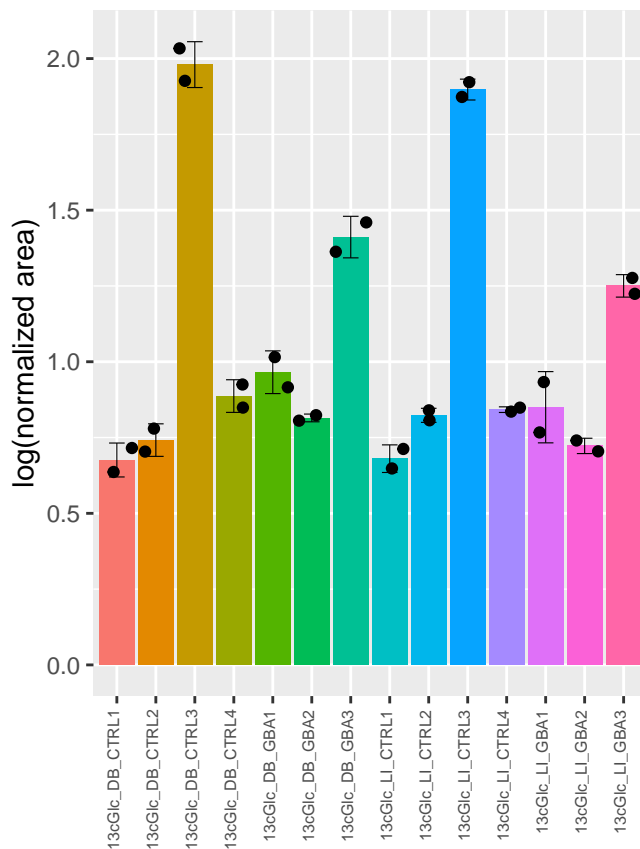
GLU



GLU

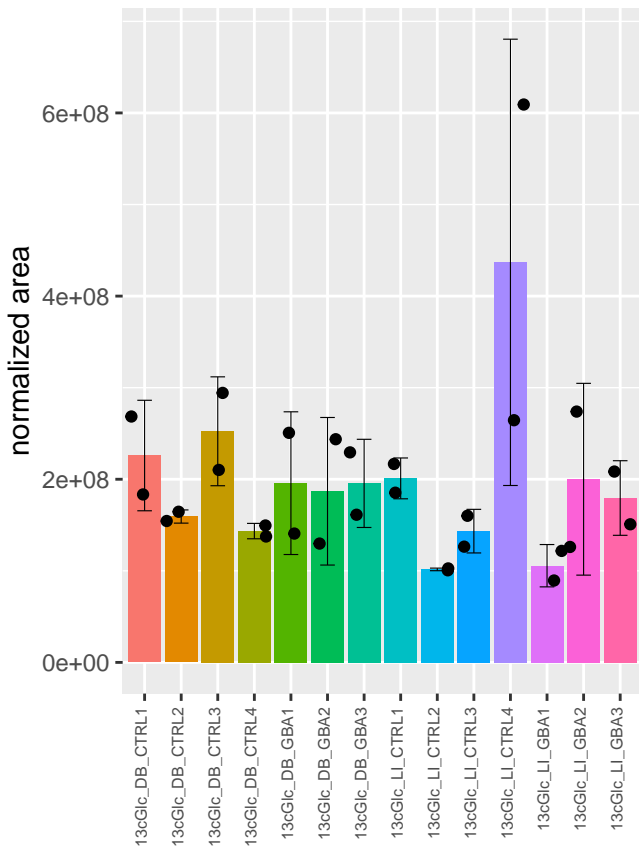


GLU

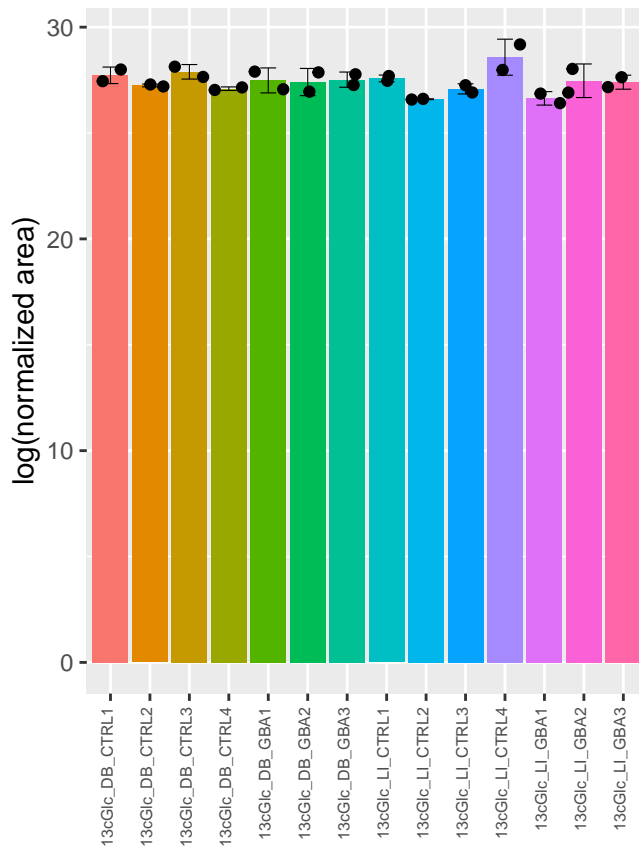


without PCV normalization

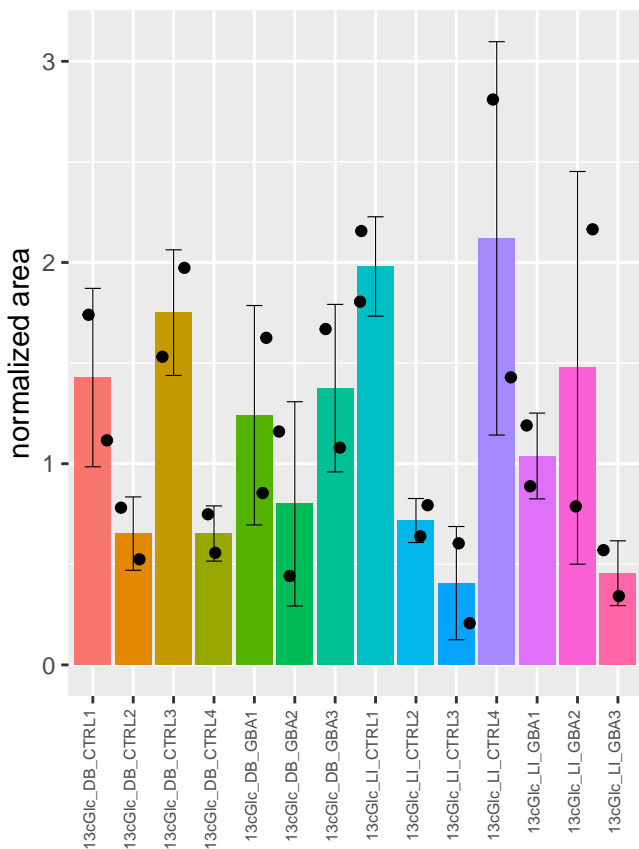
Glucose



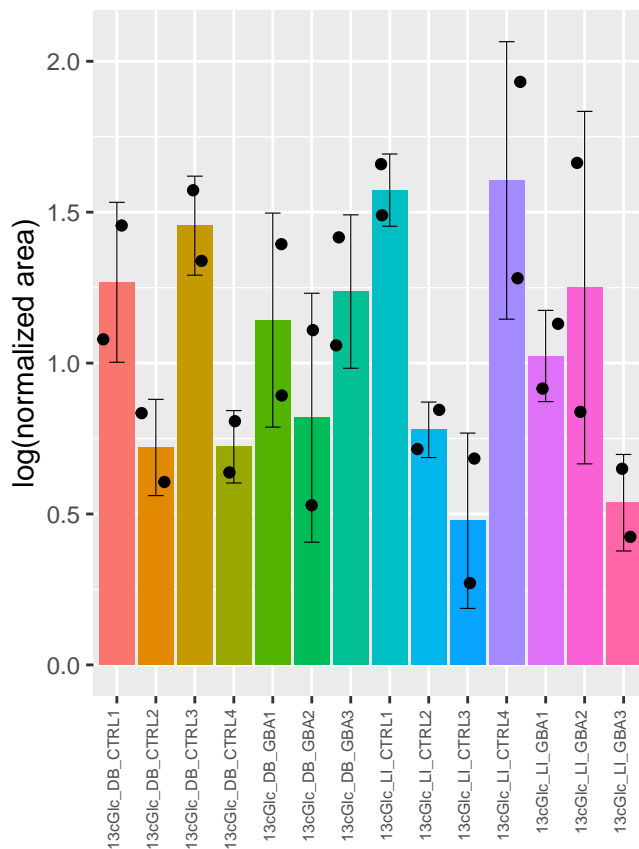
Glucose



Glucose

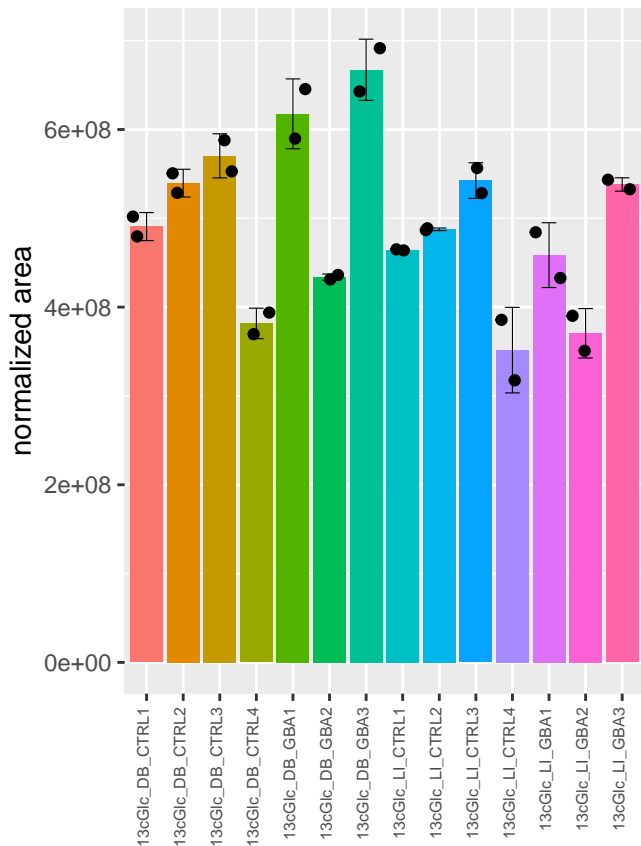


Glucose

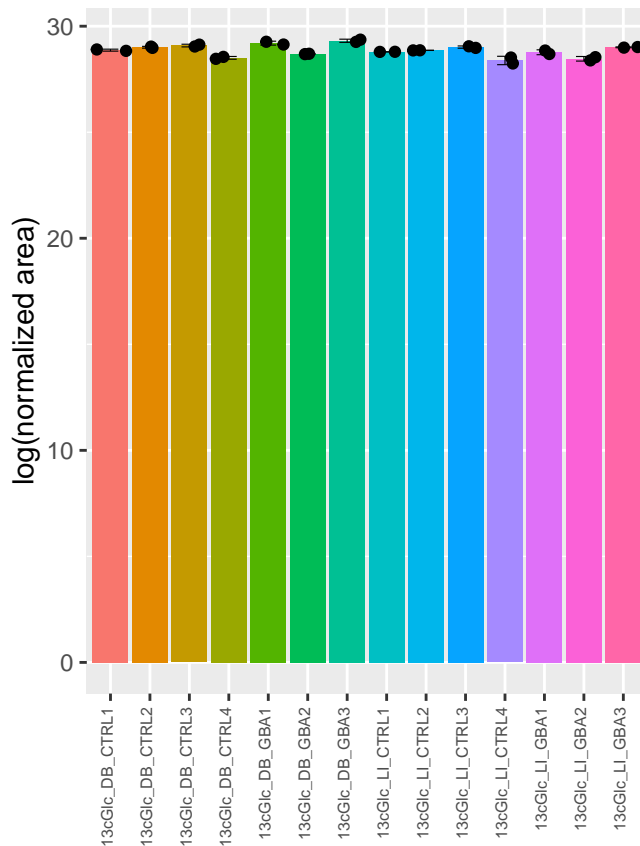


without PCV normalization

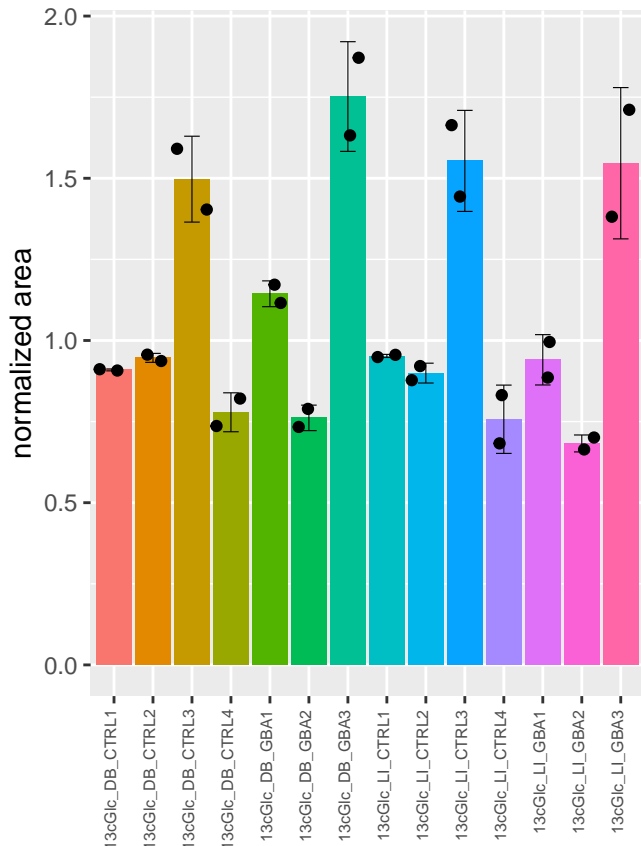
Glycine



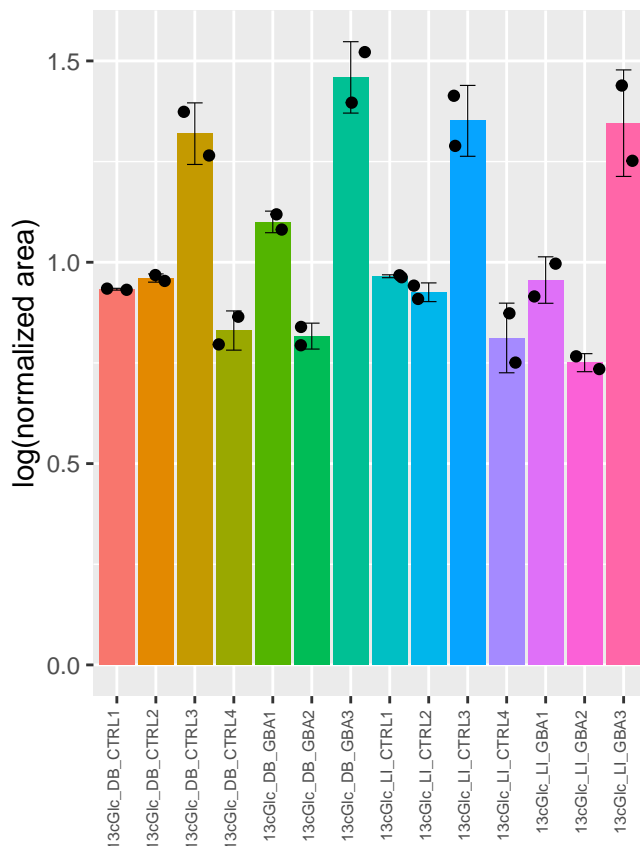
Glycine



Glycine

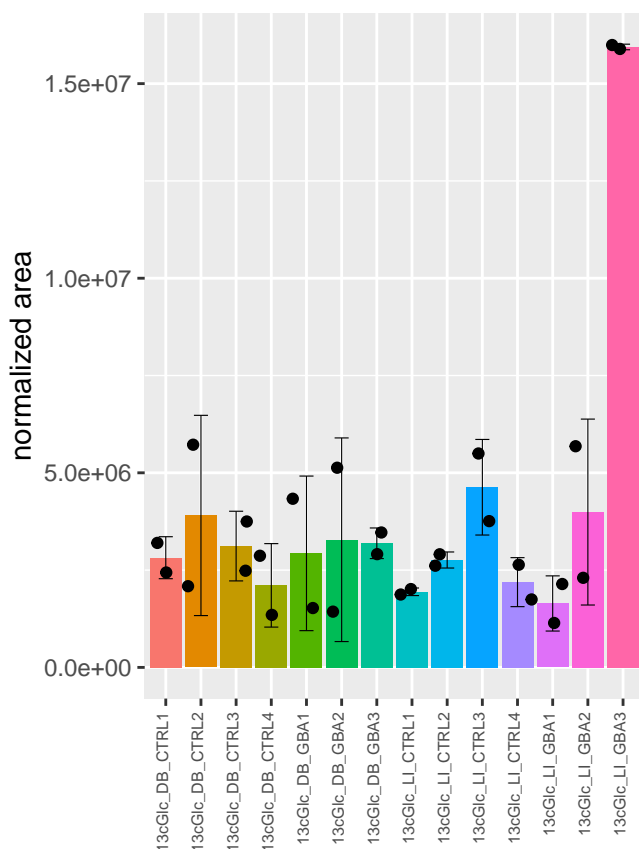


Glycine

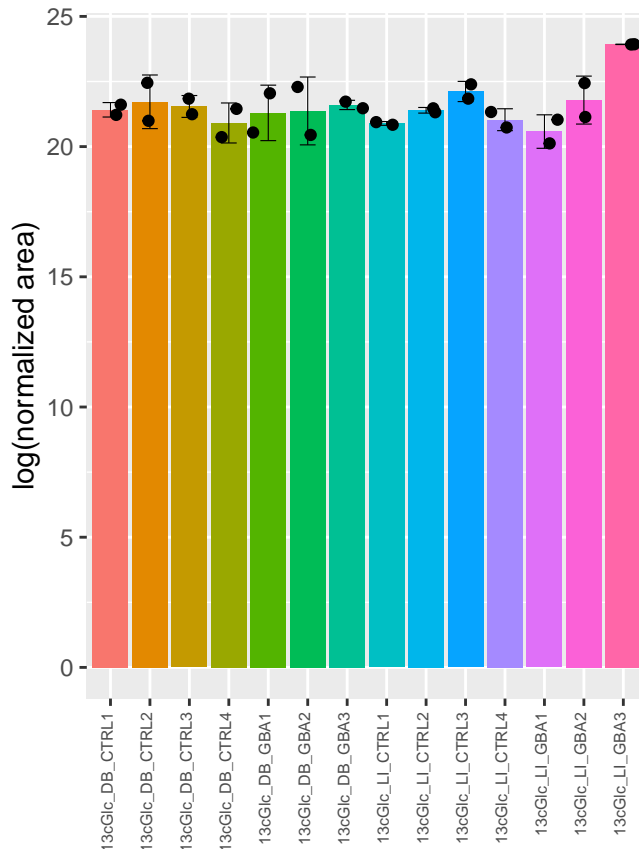


without PCV normalization

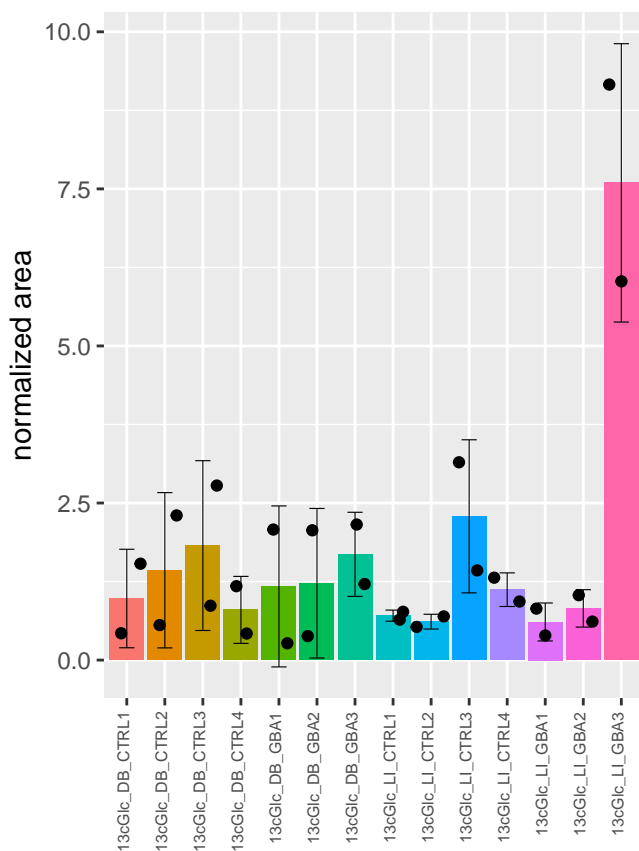
GMP



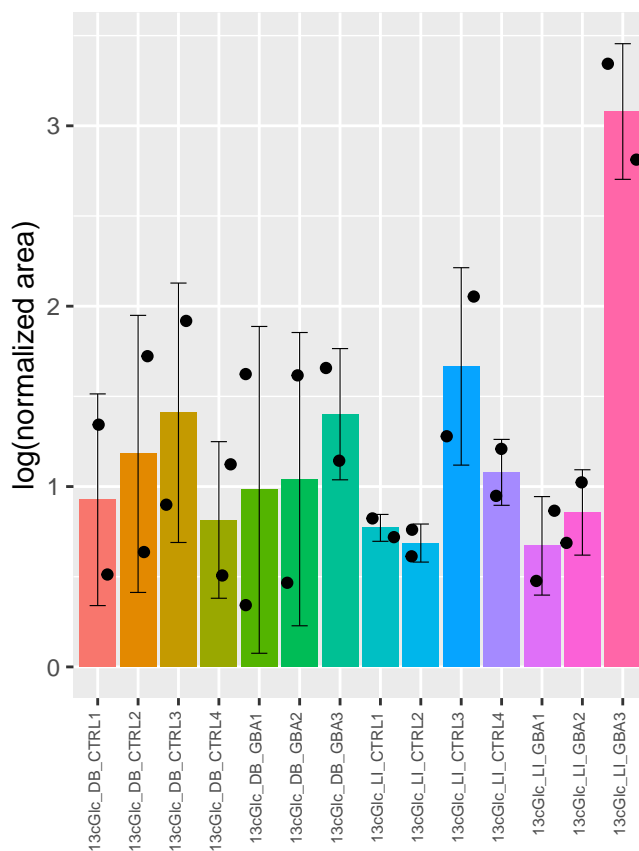
GMP



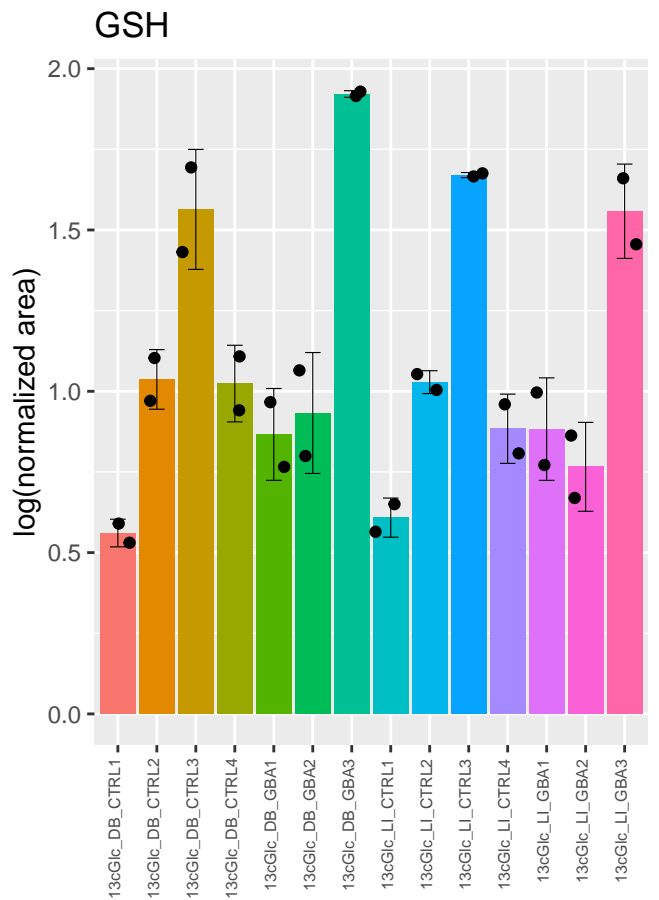
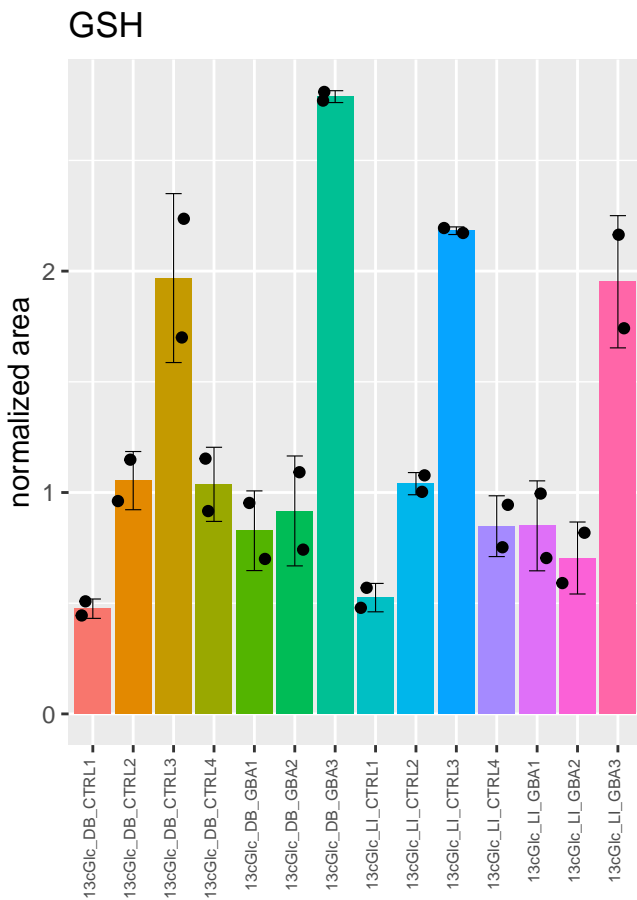
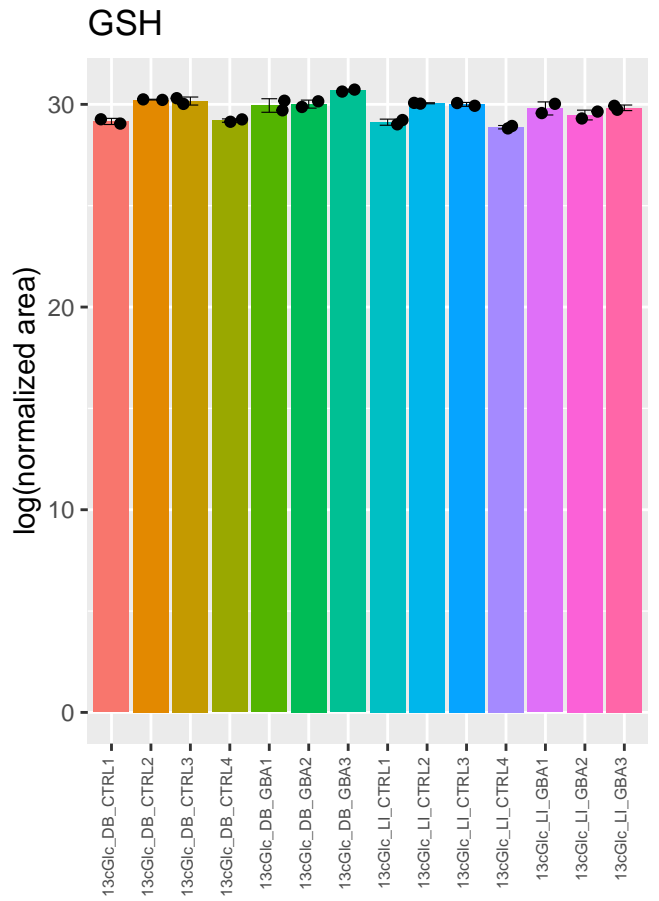
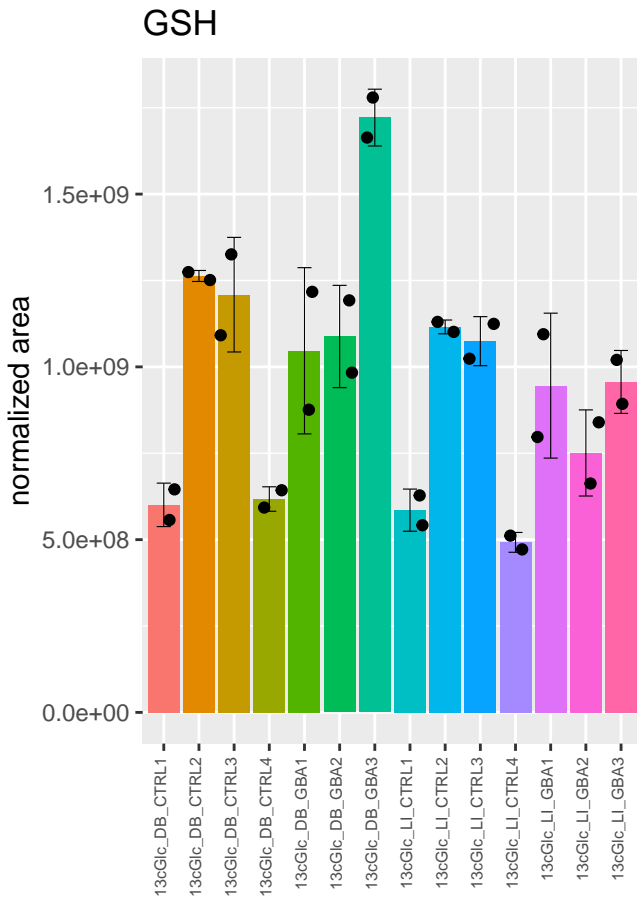
GMP



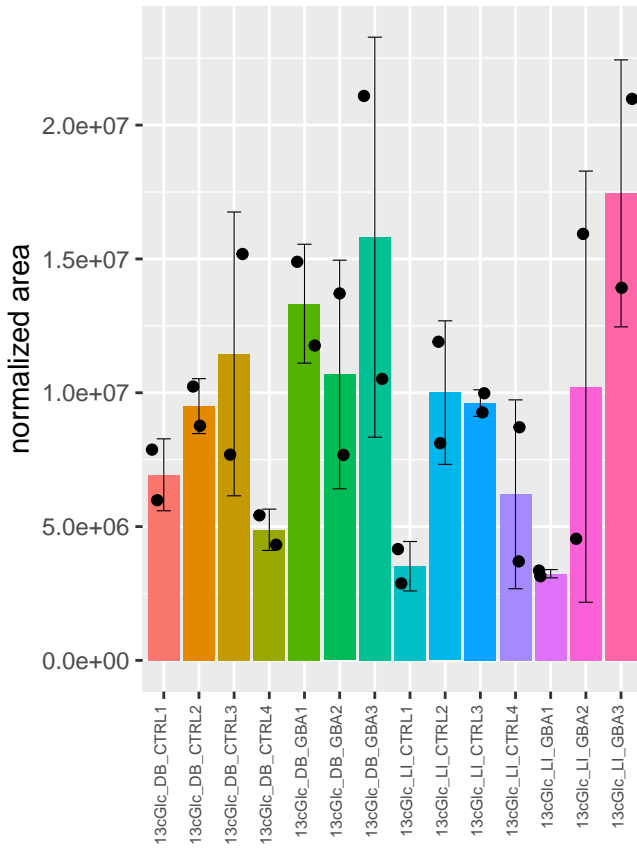
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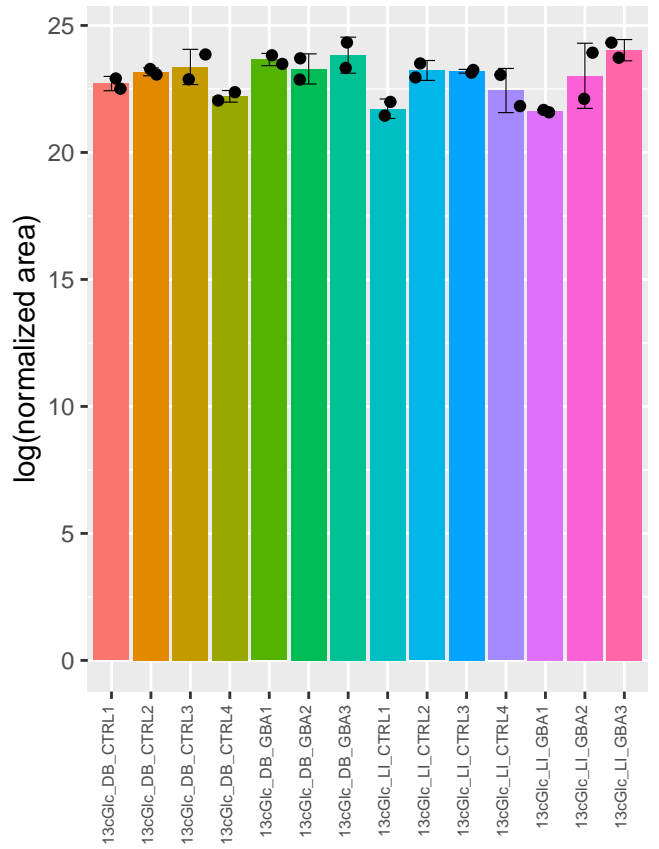
without PCV normalization



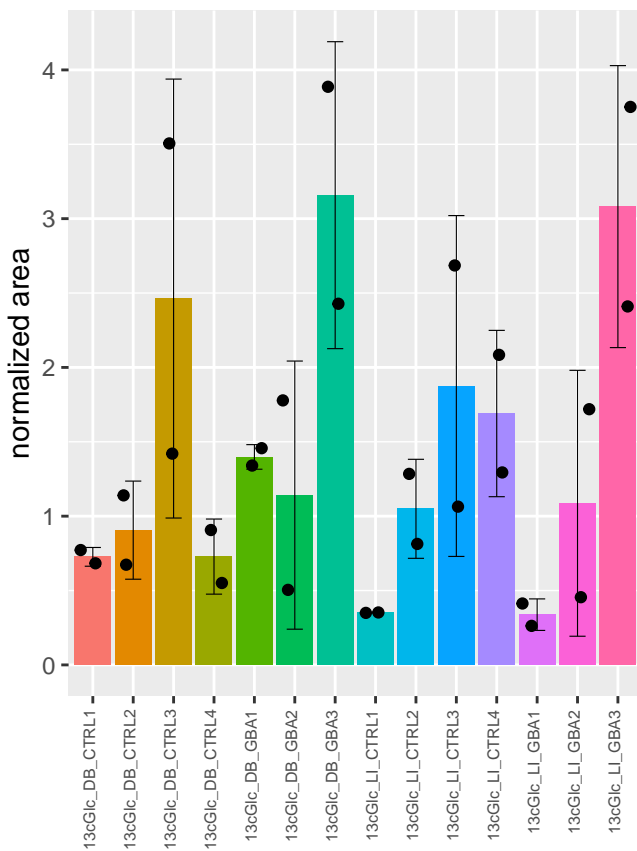
GSSG



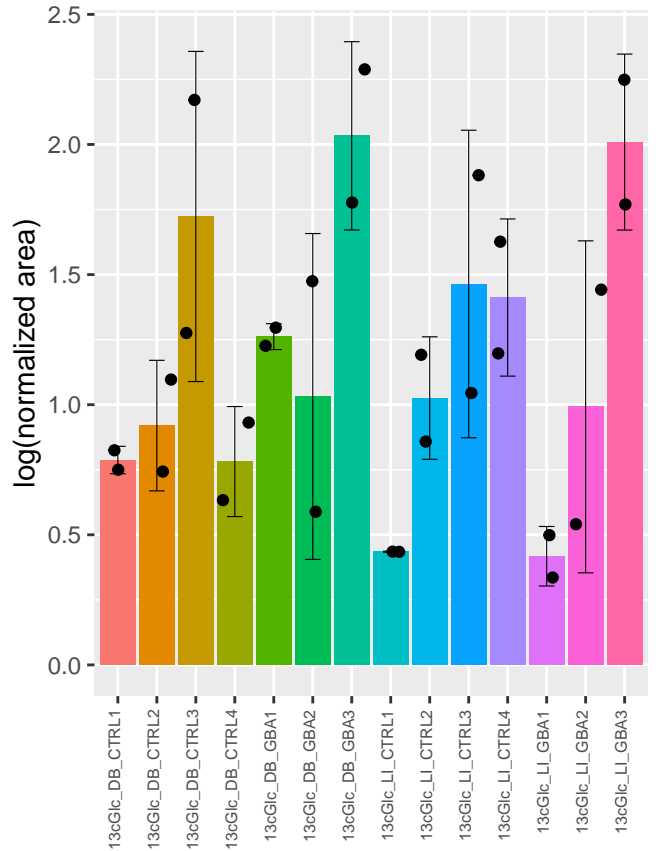
GSSG



GSSG

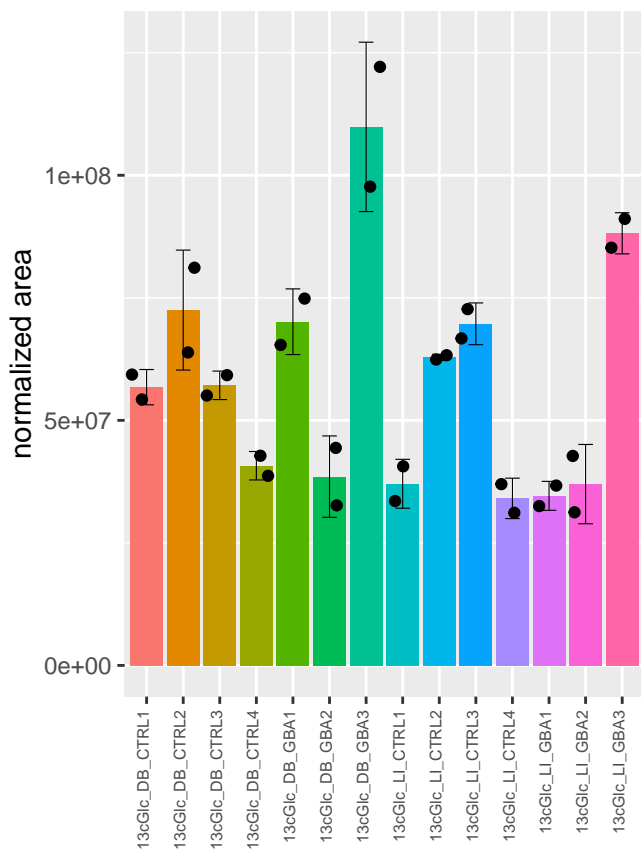


GSSG

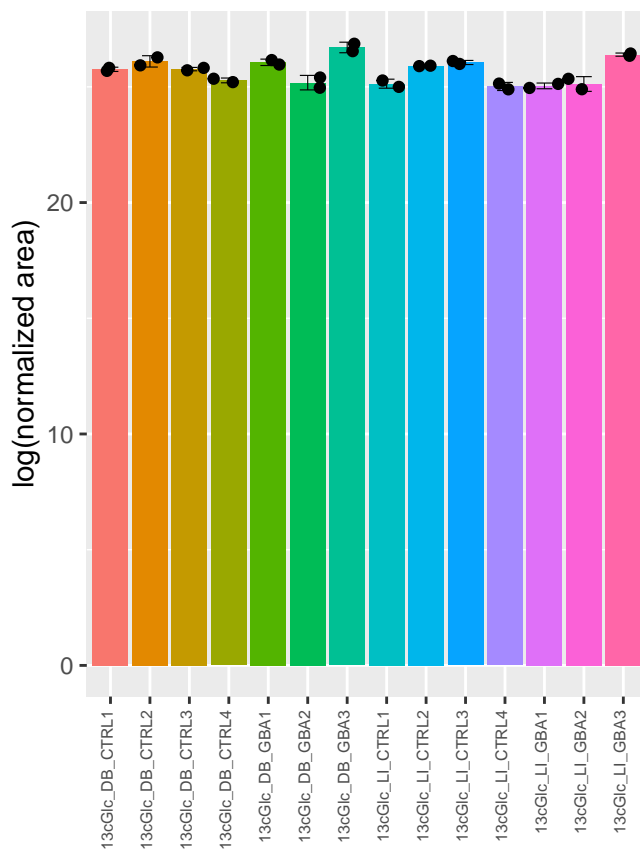


without PCV normalization

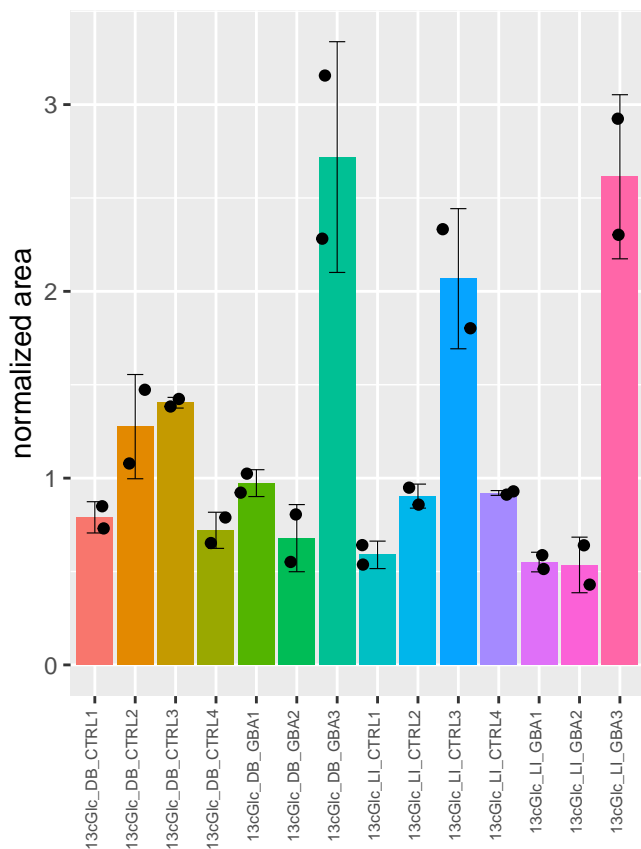
GTP



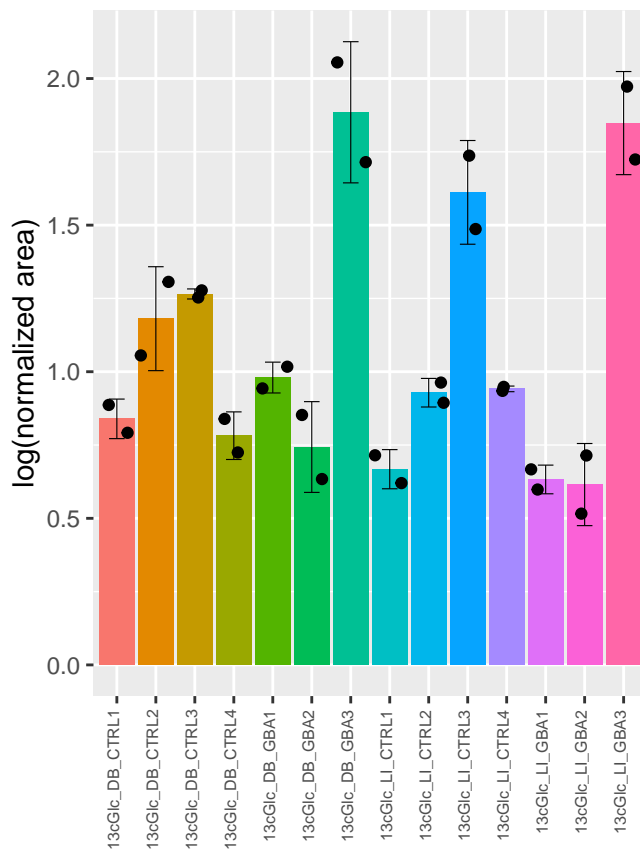
GTP

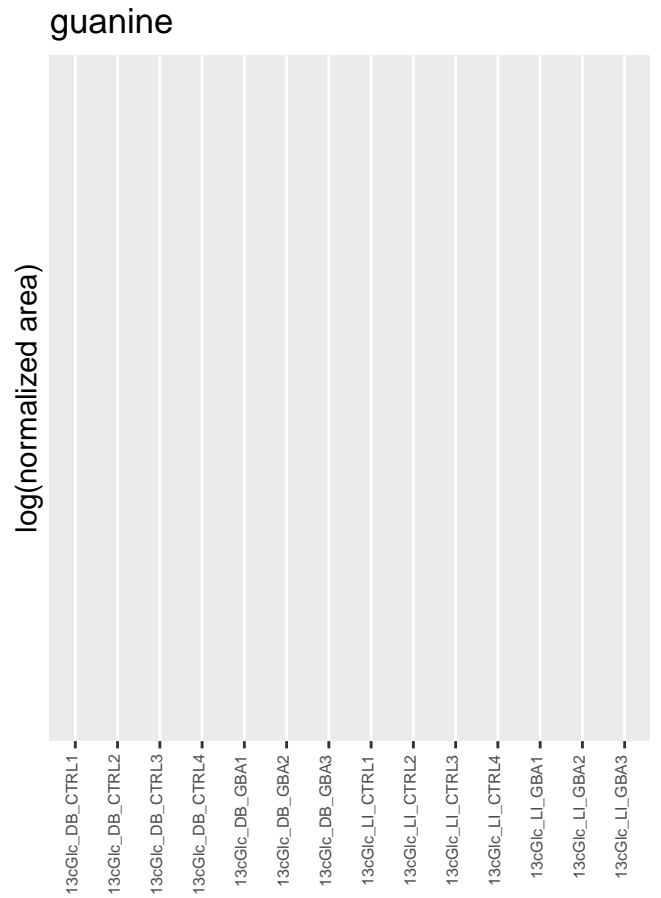
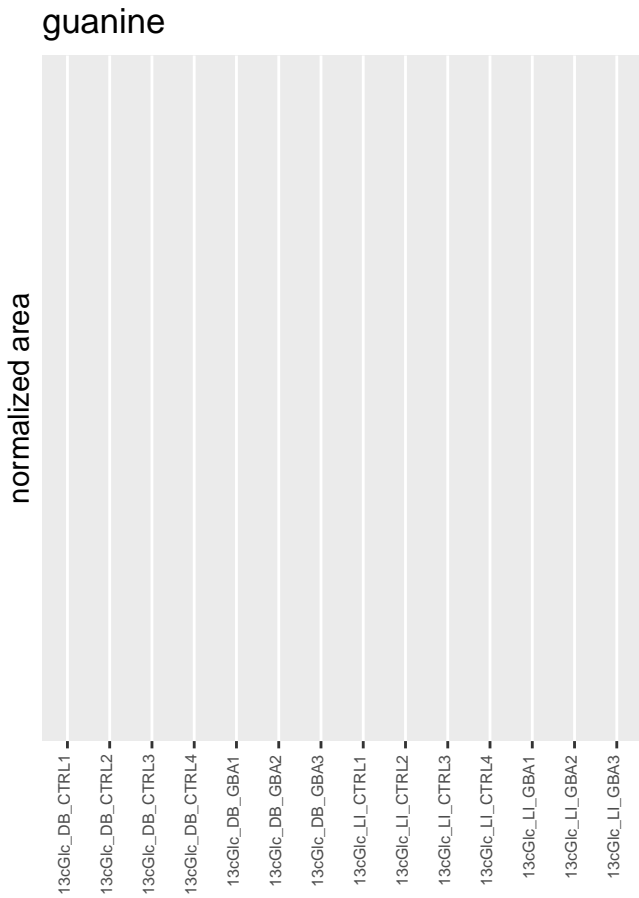
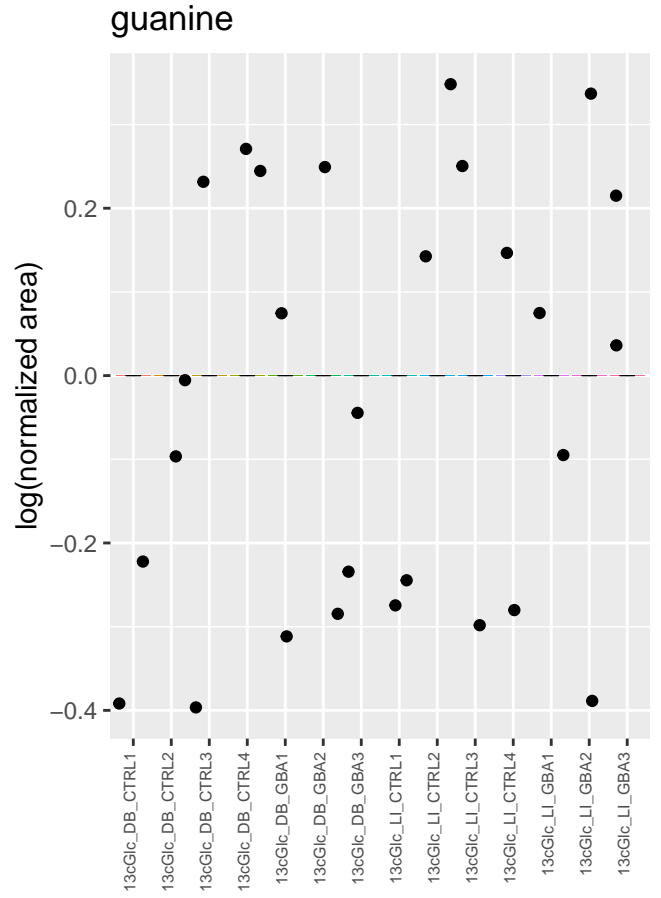
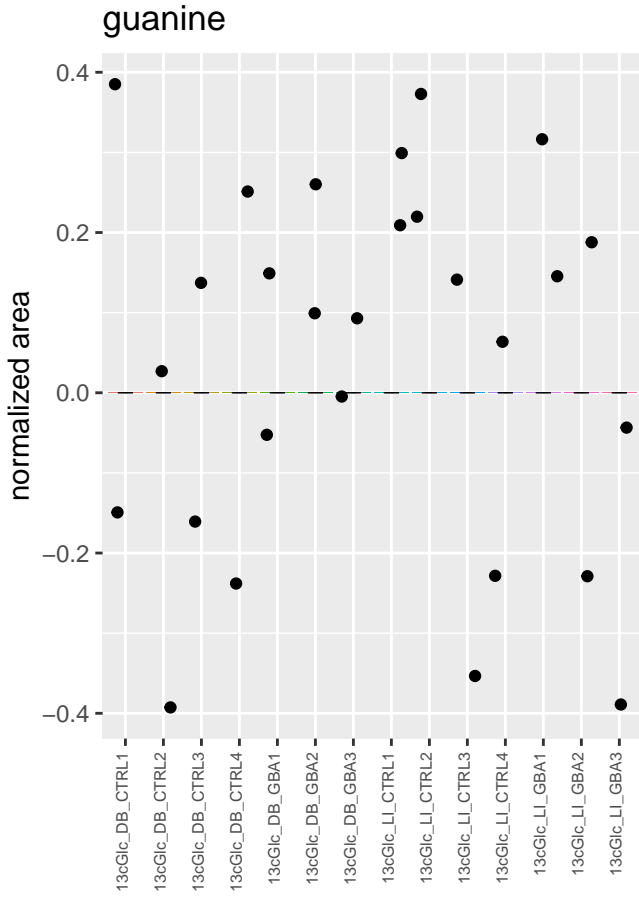


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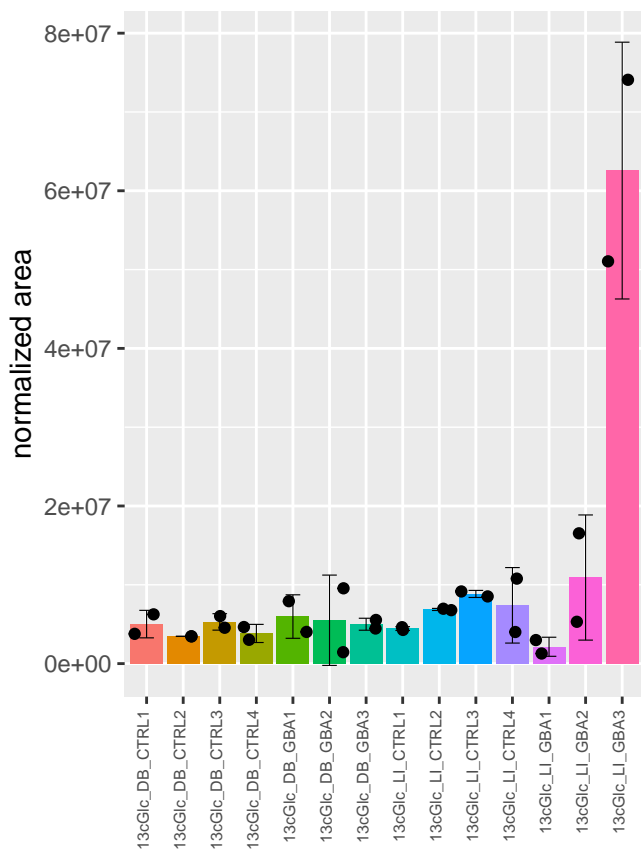


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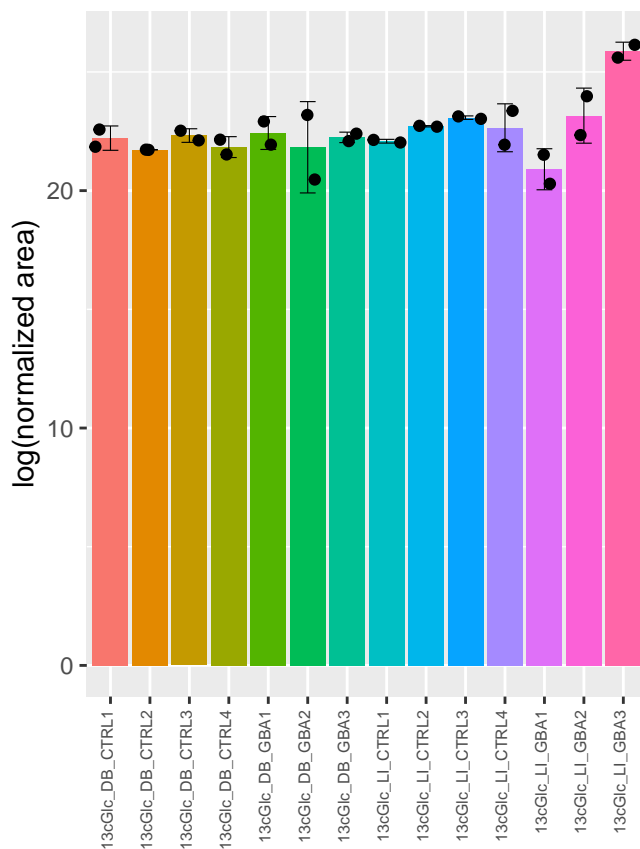




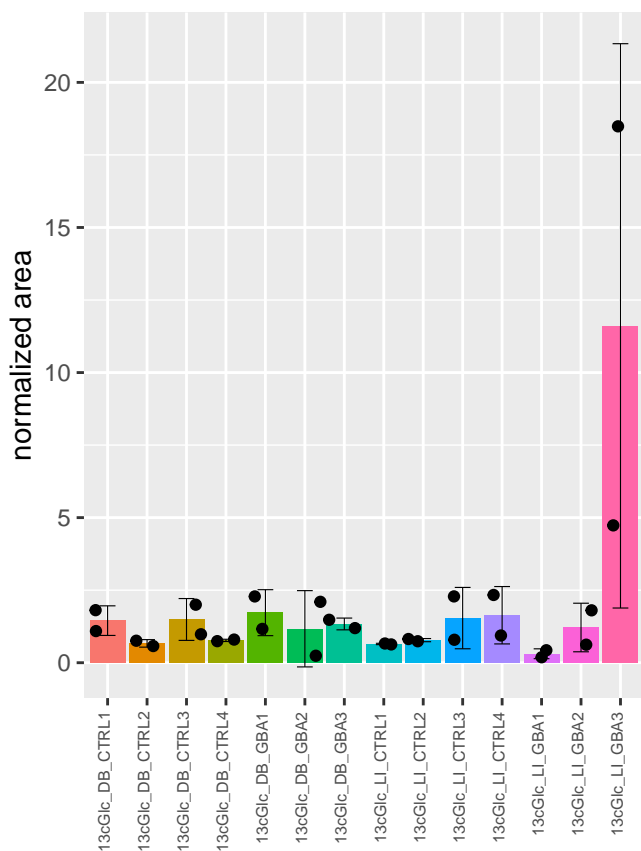
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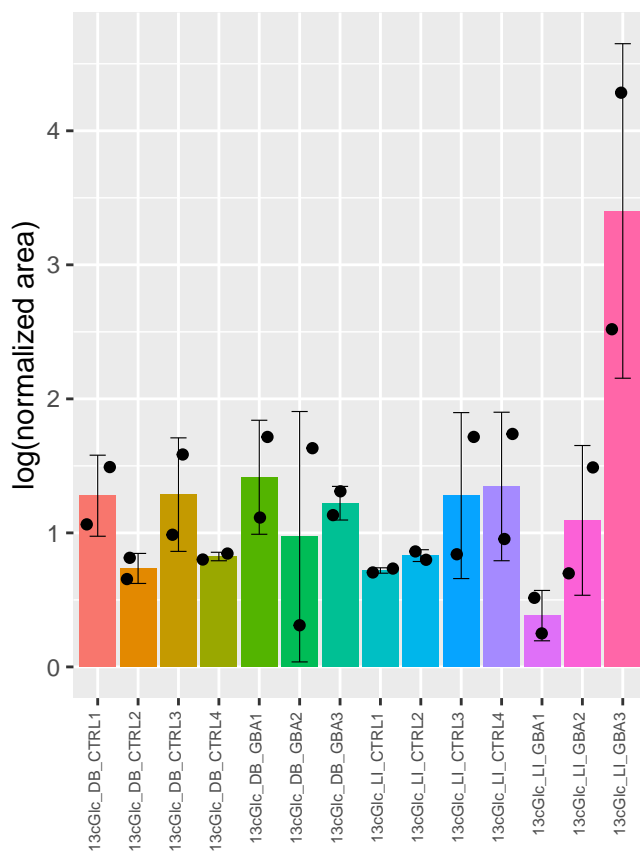
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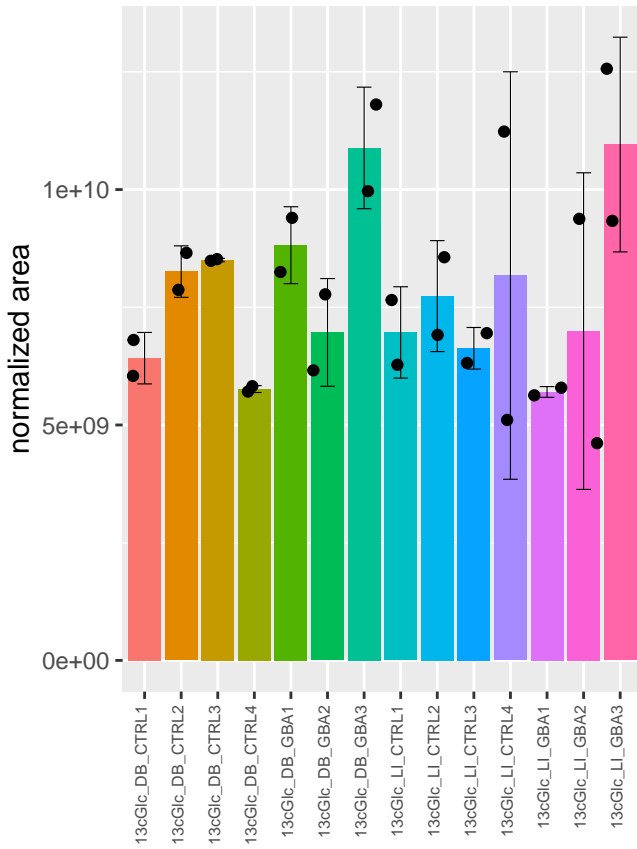
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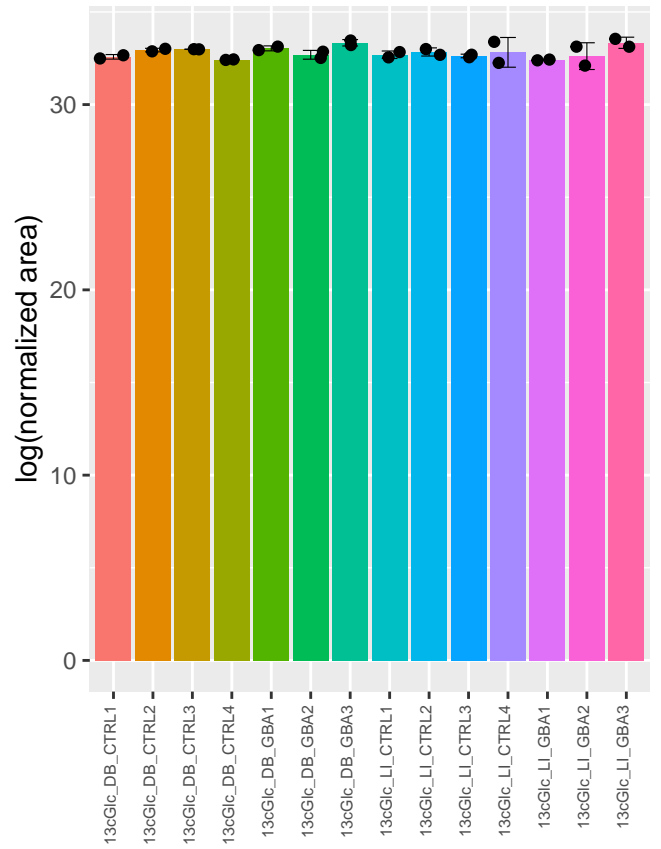
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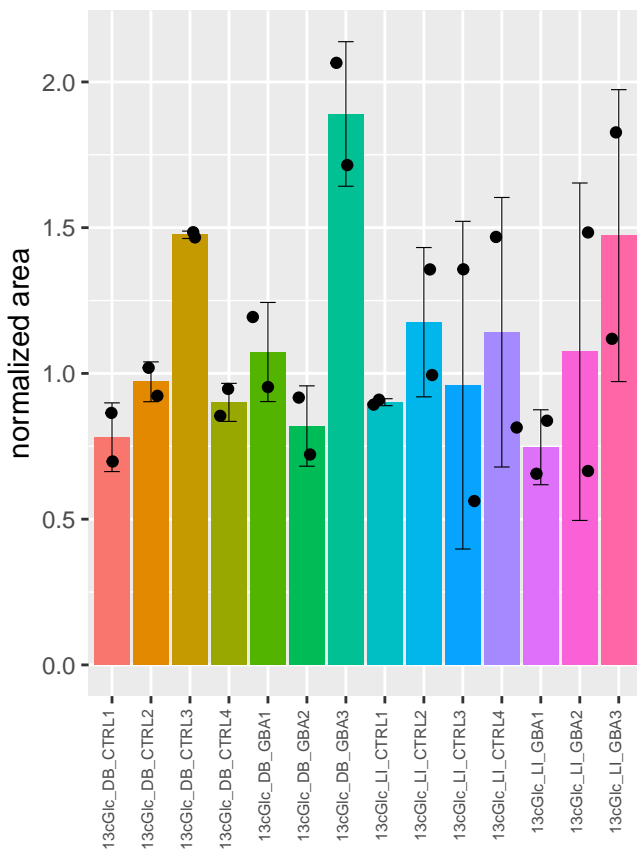
IsoLeucine



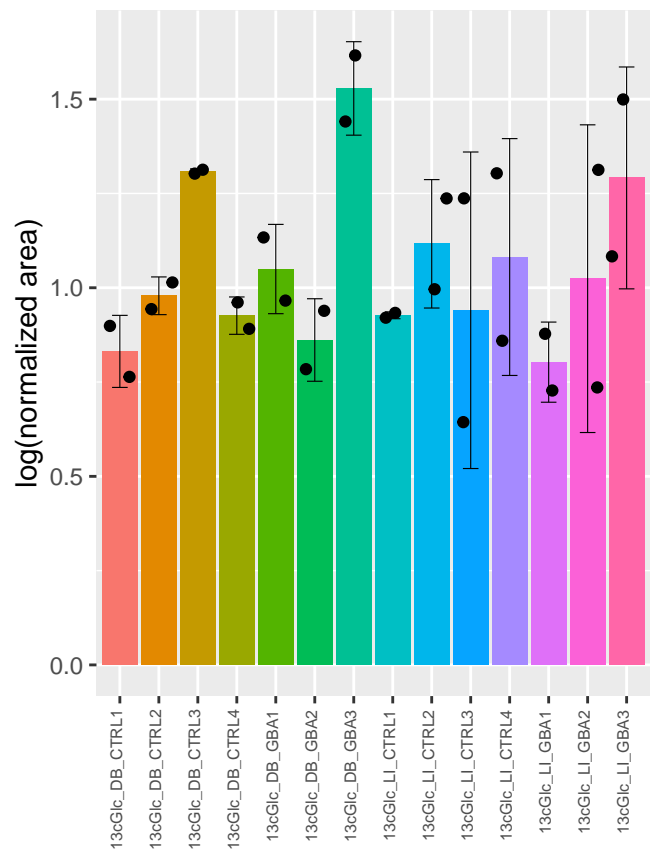
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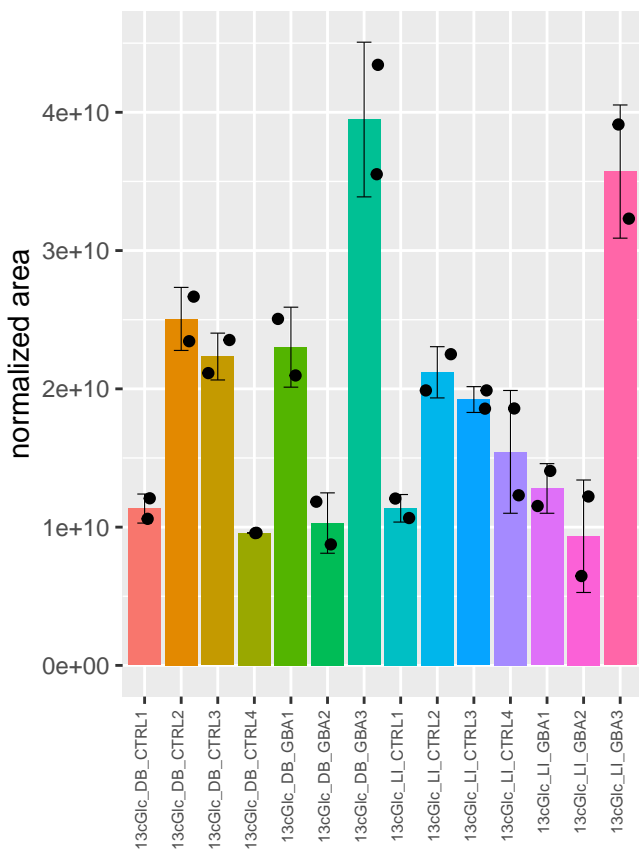
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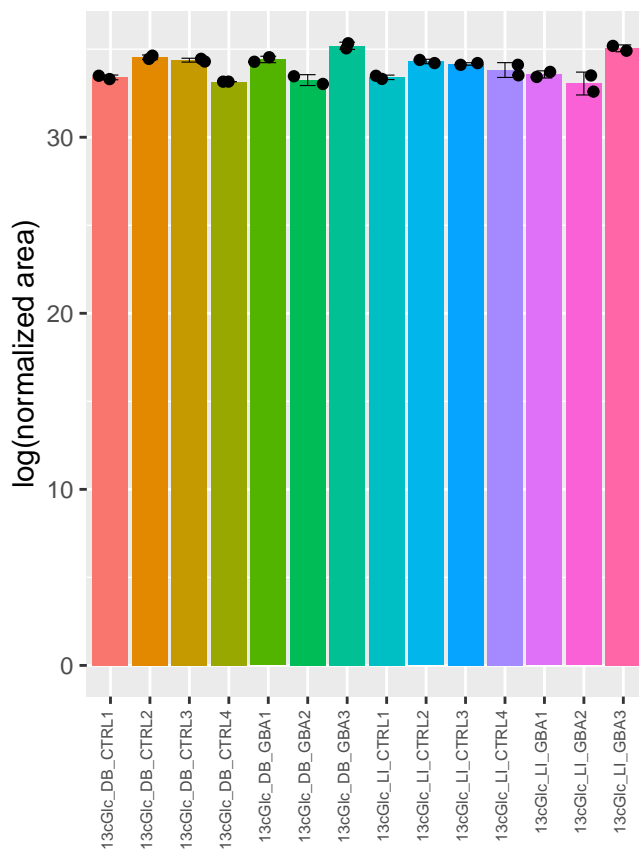
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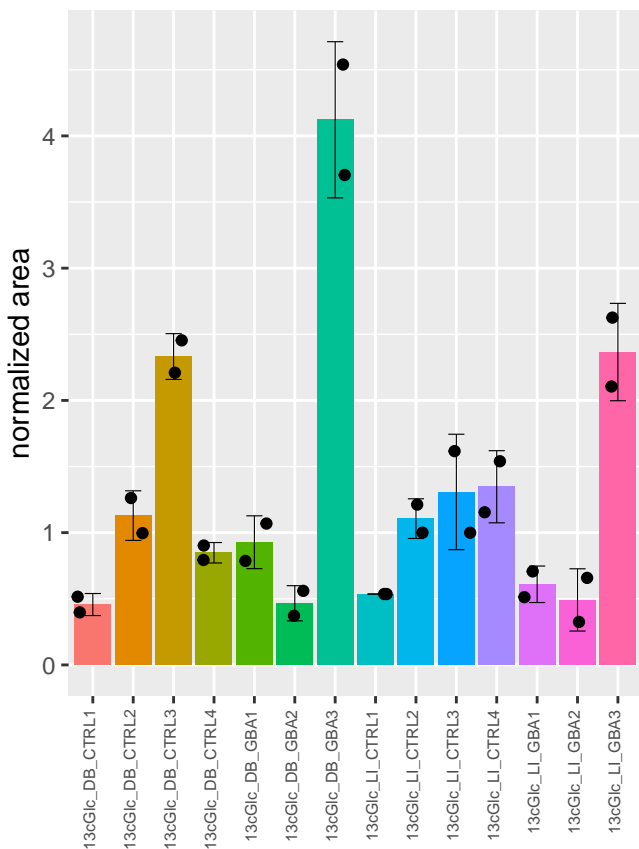
Lactate



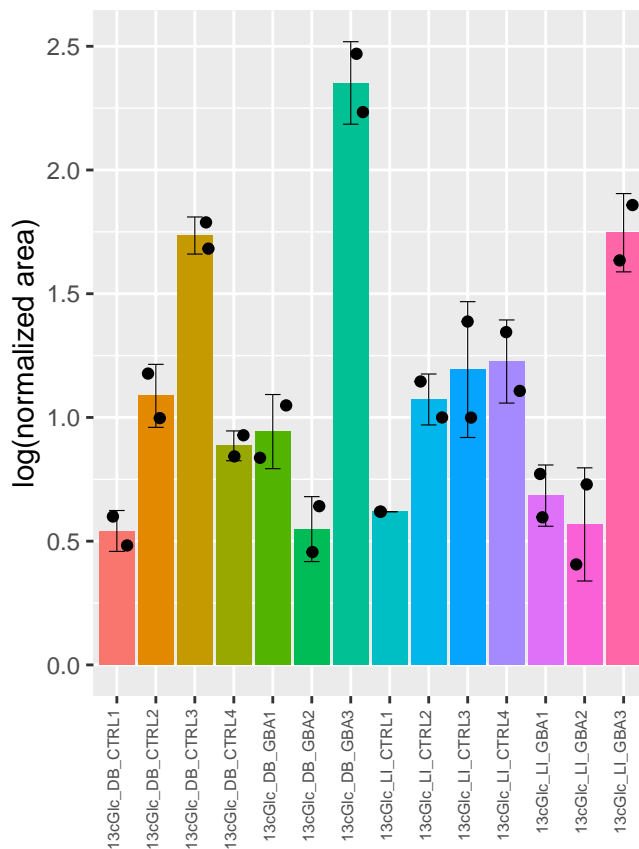
Lactate



Lactate

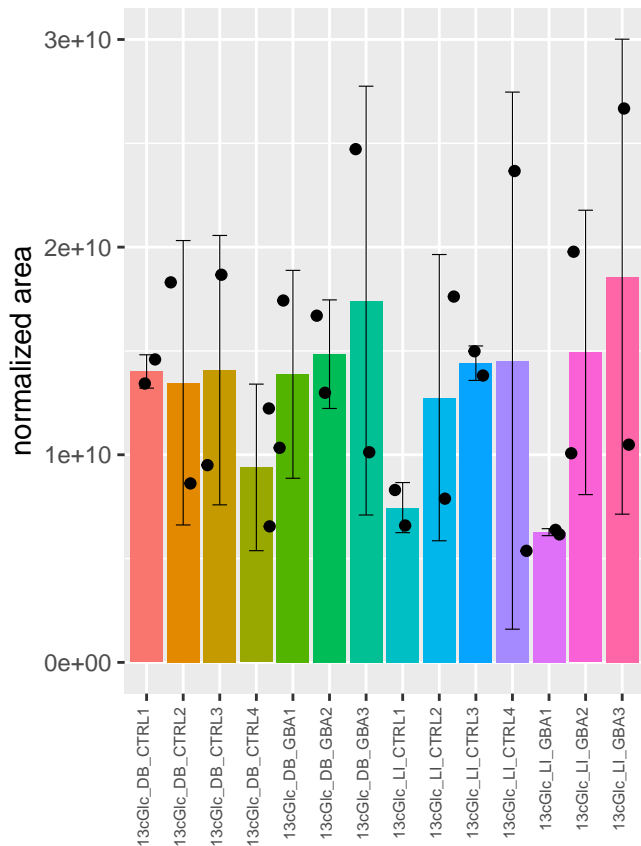


Lactate

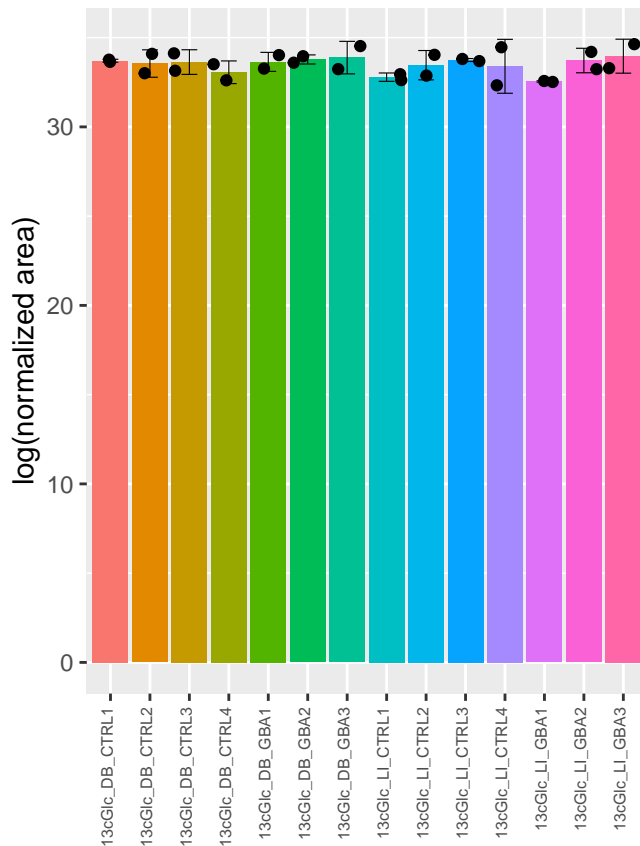


without PCV normalization

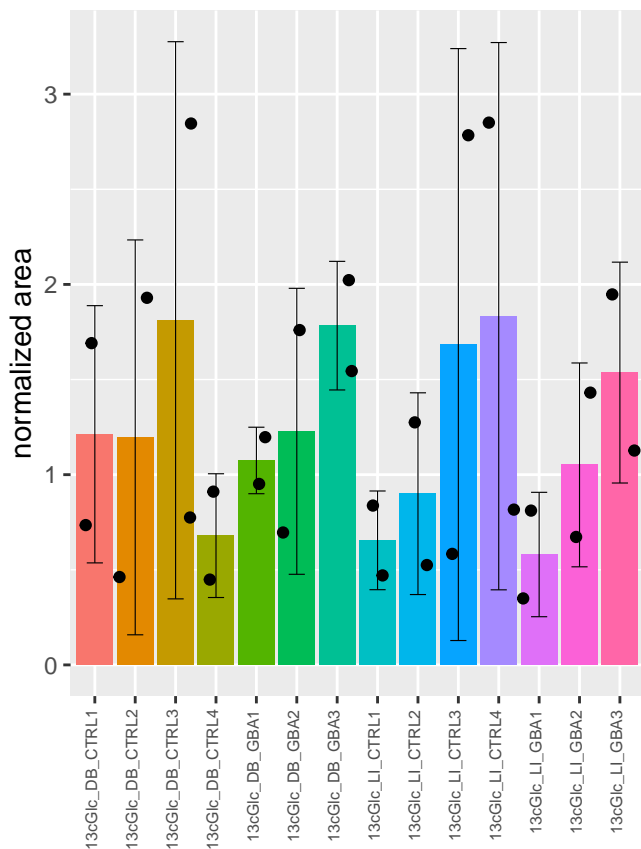
Leucine



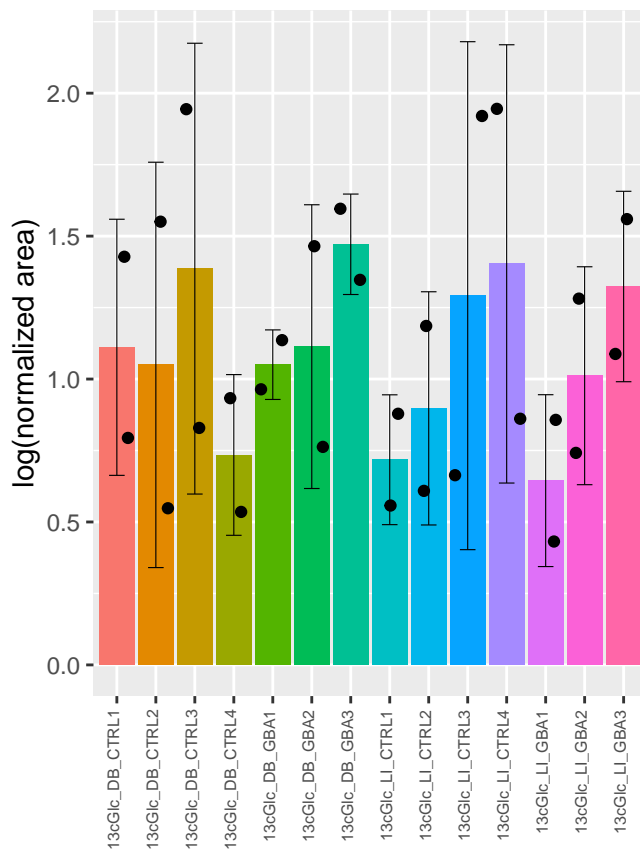
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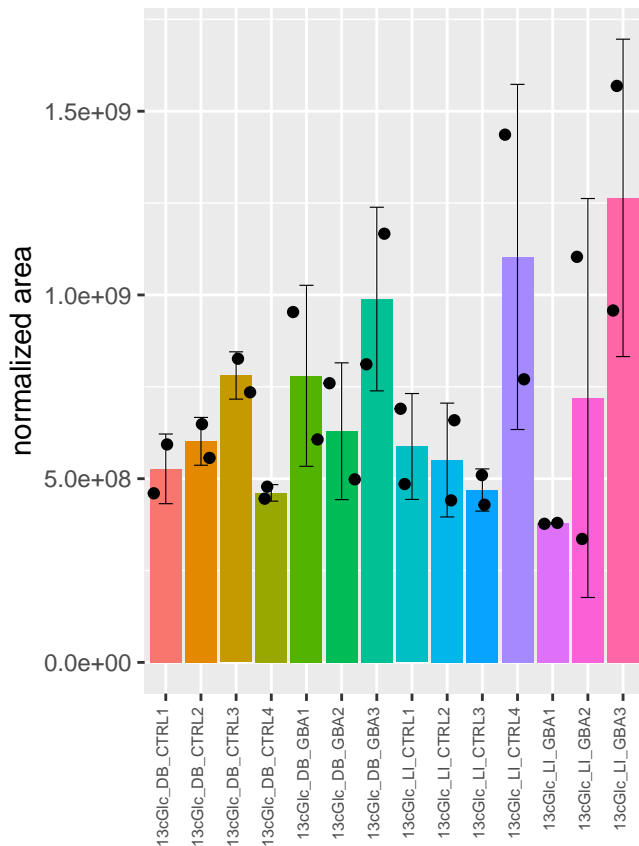
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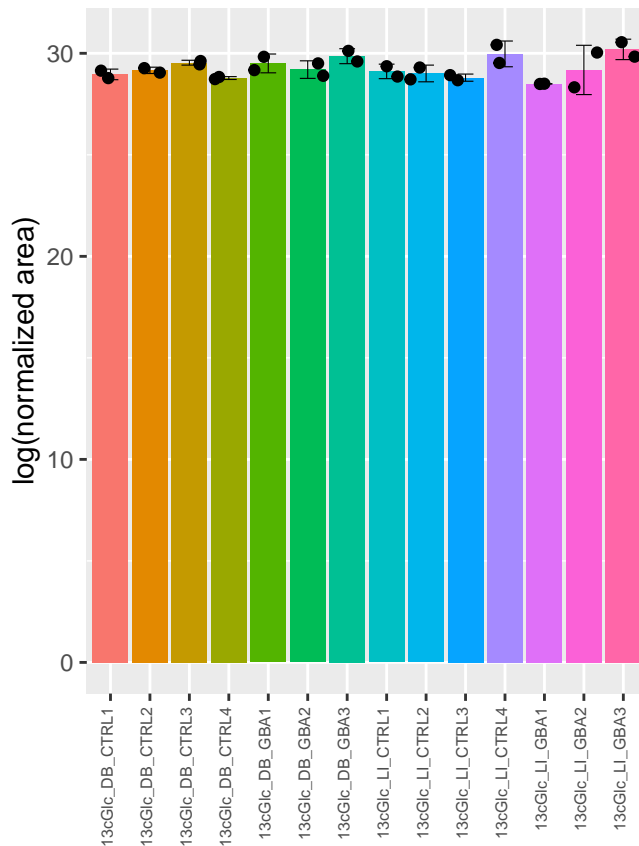
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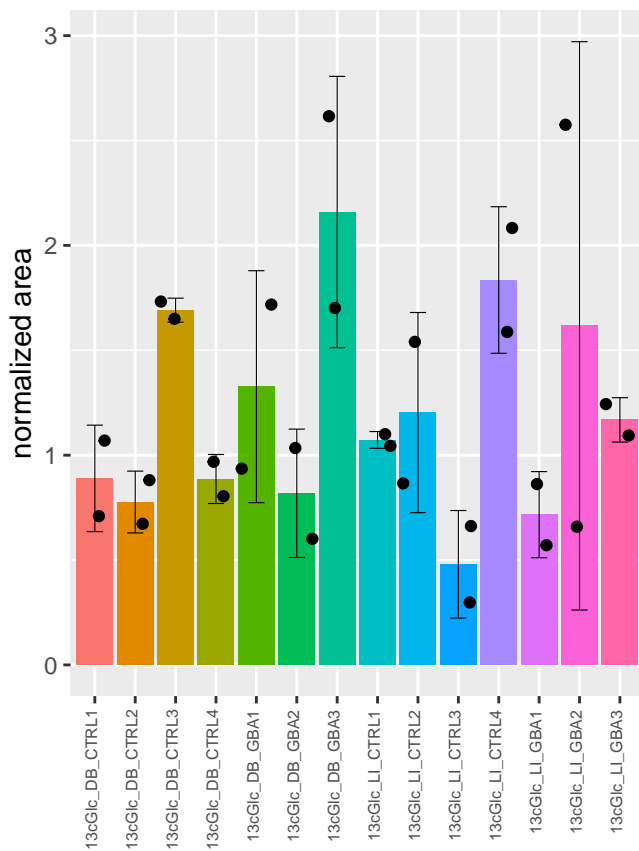
Lysine



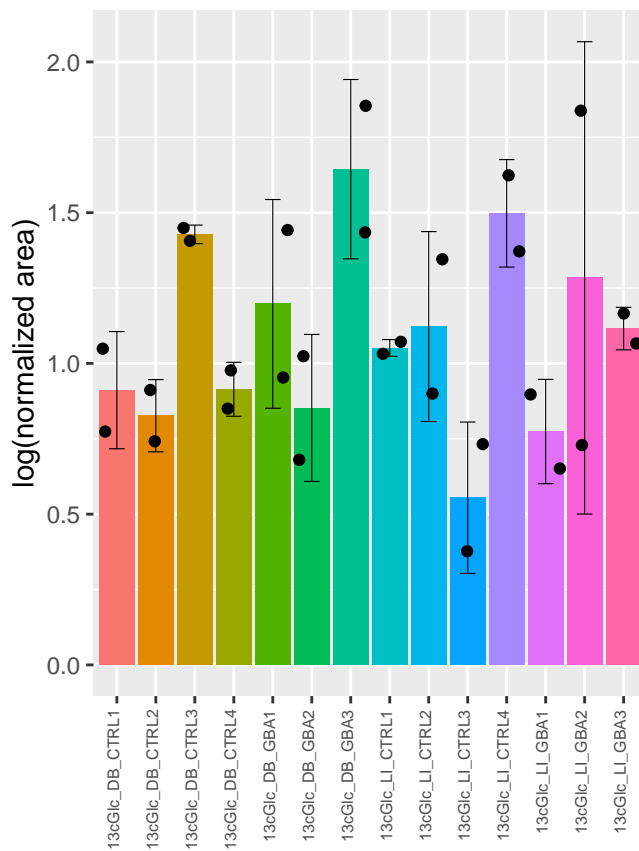
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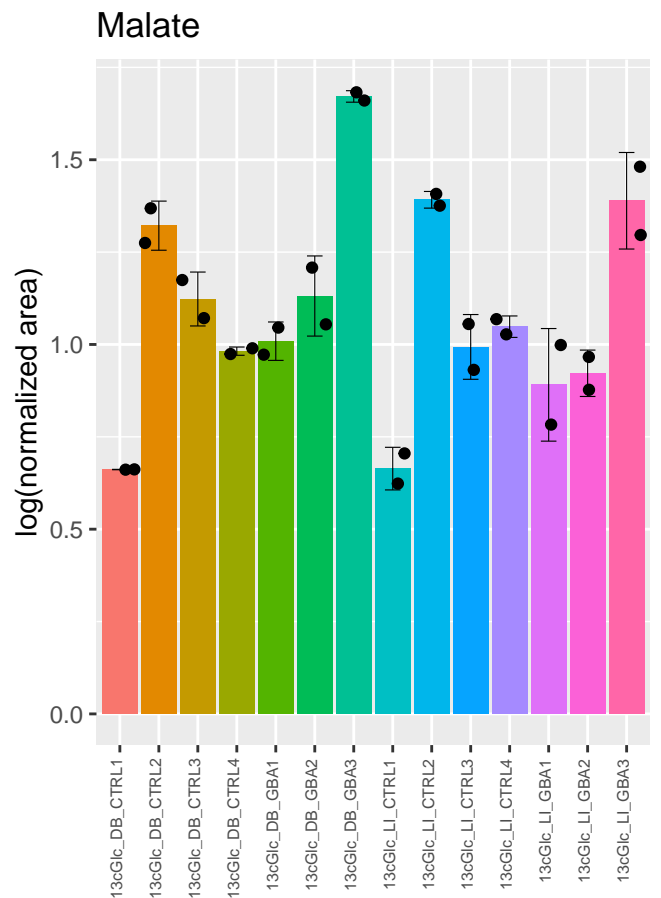
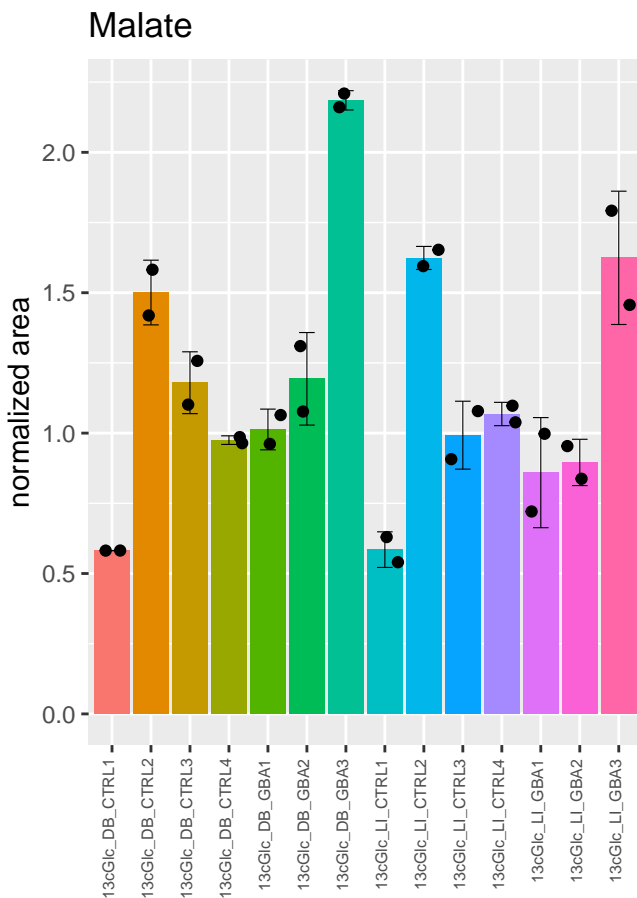
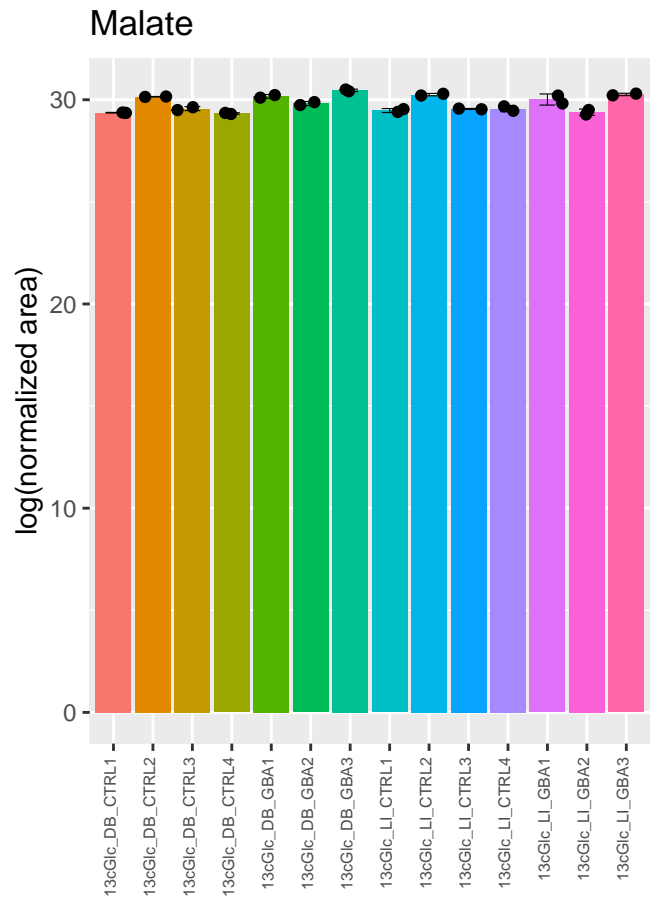
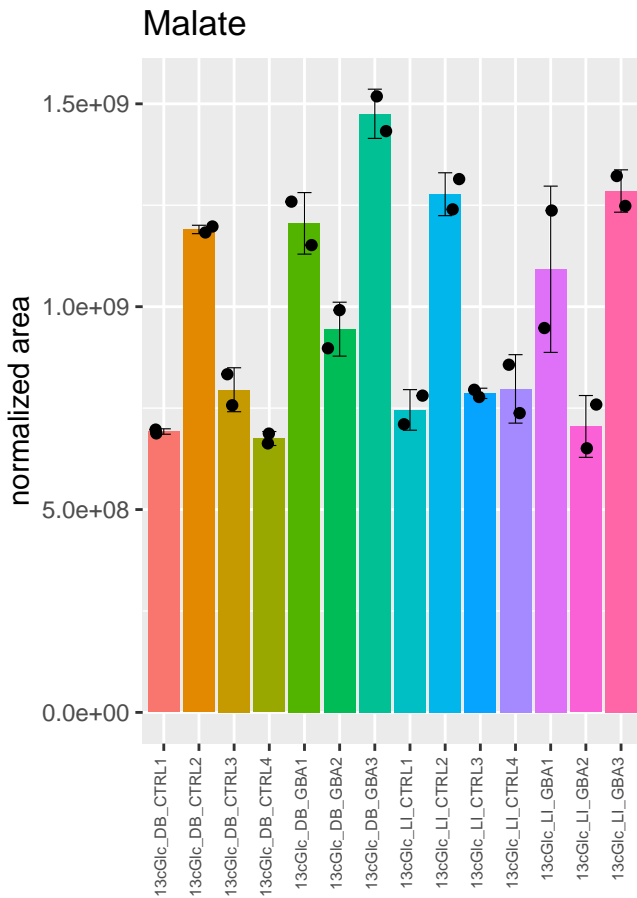


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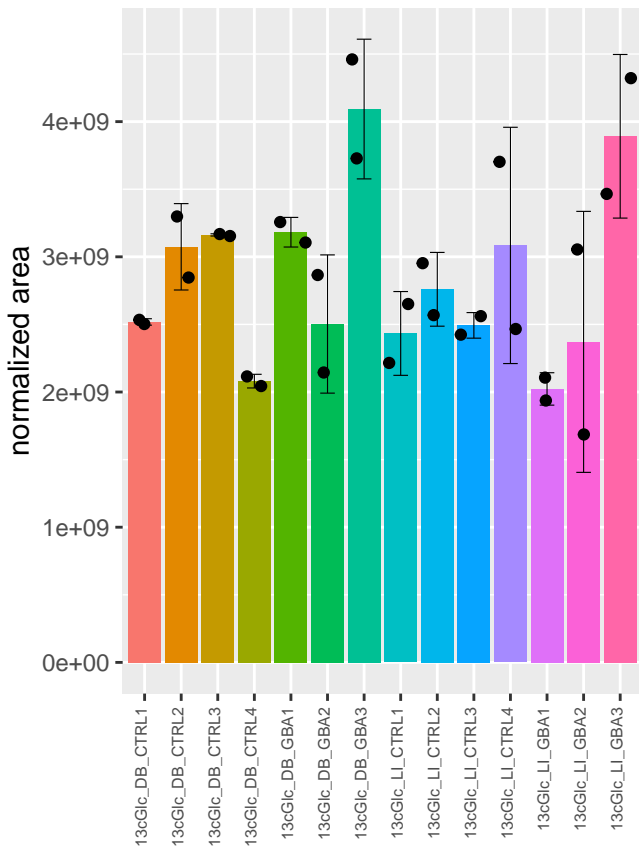


Lysine

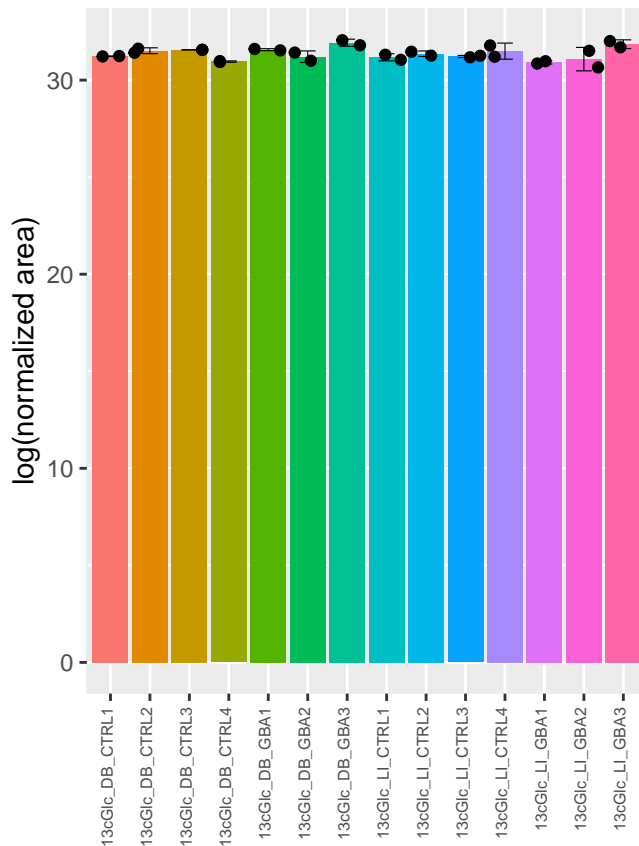




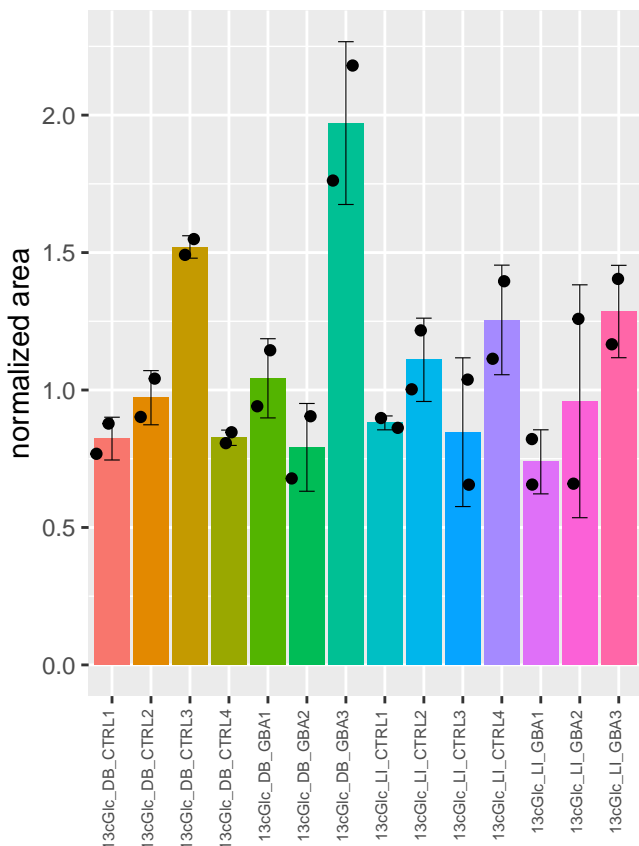
Methionine



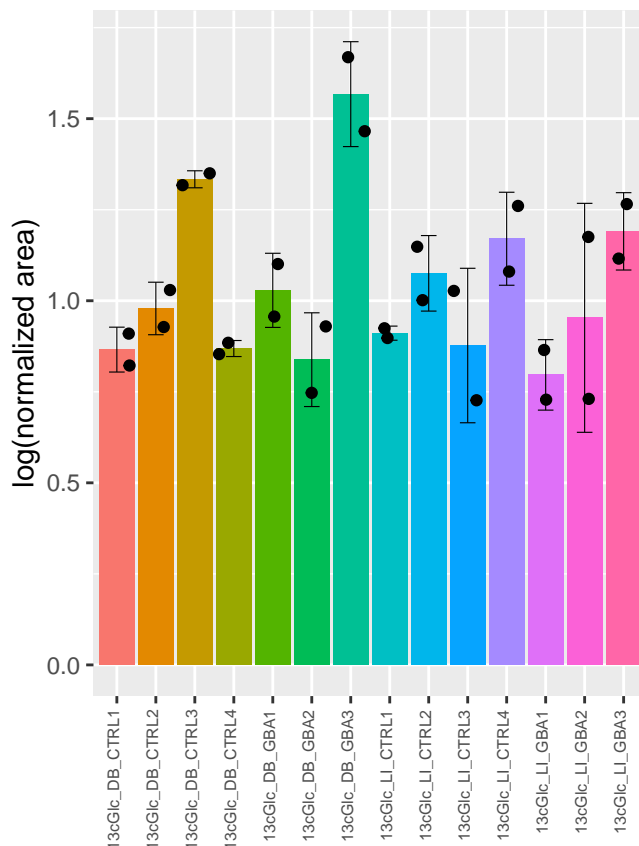
Methionine



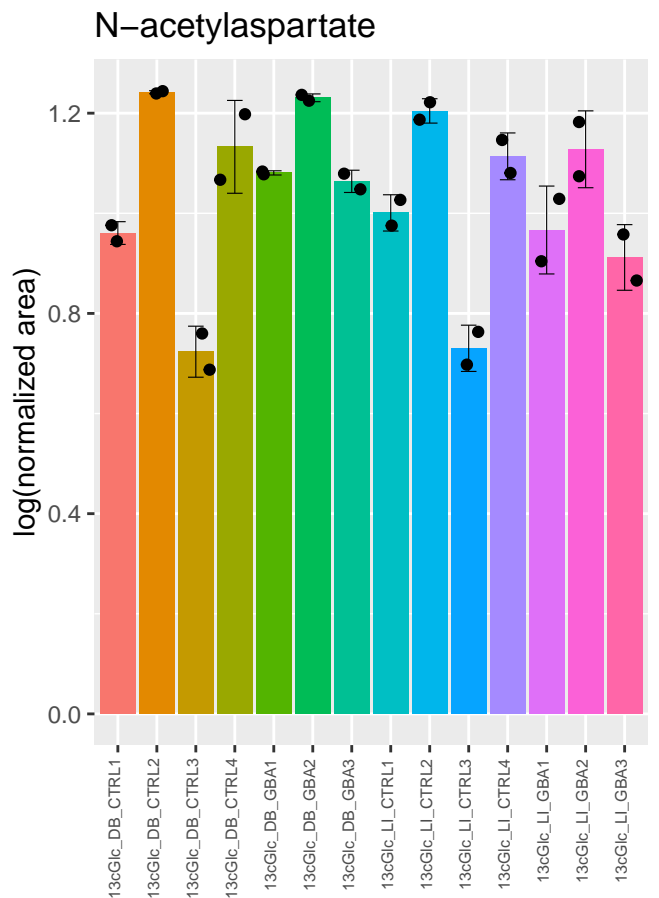
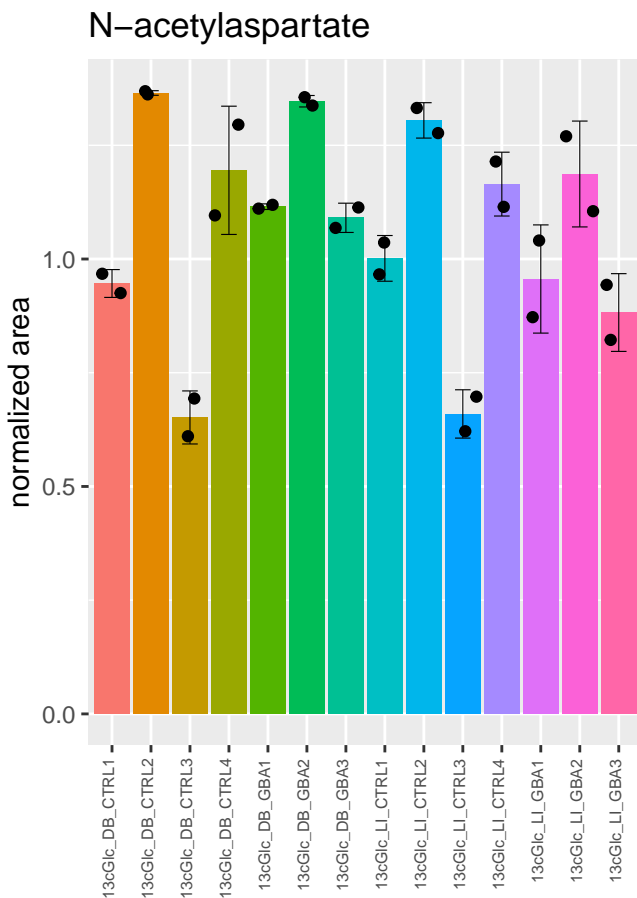
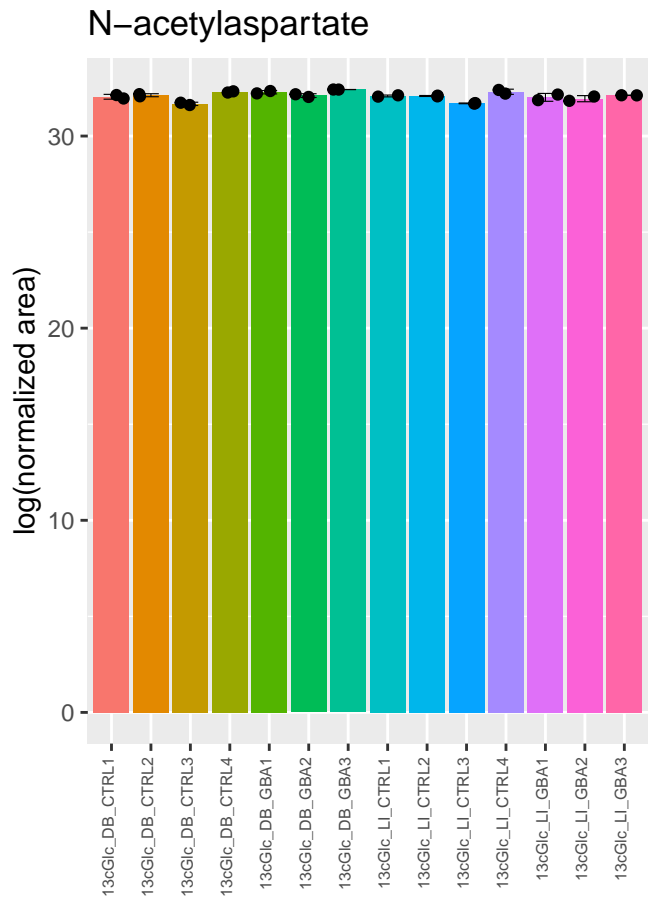
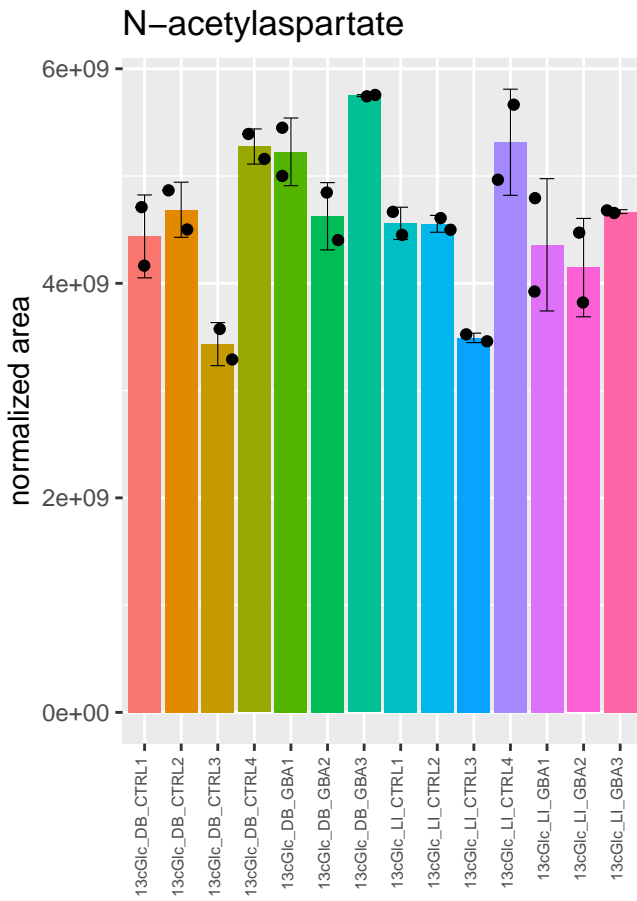
Methionine



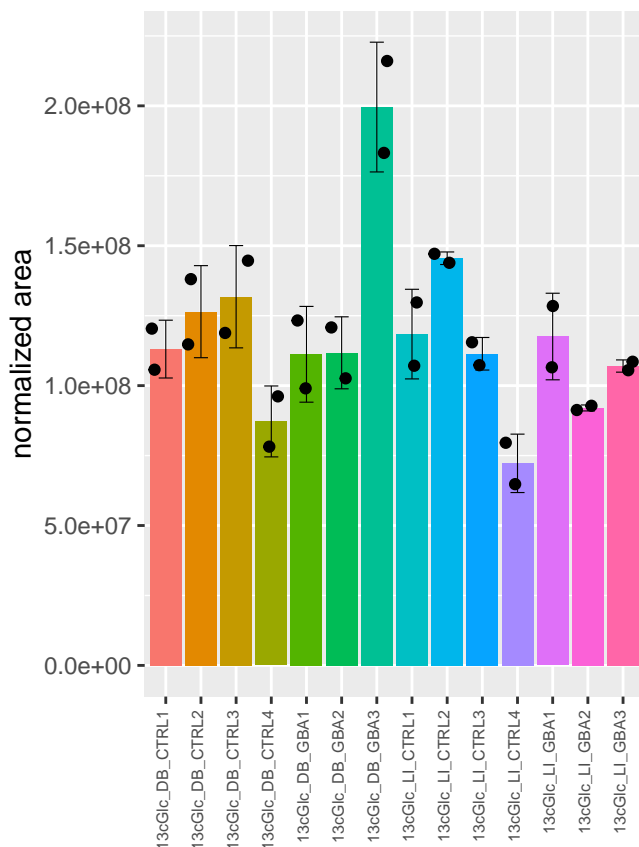
Methionine



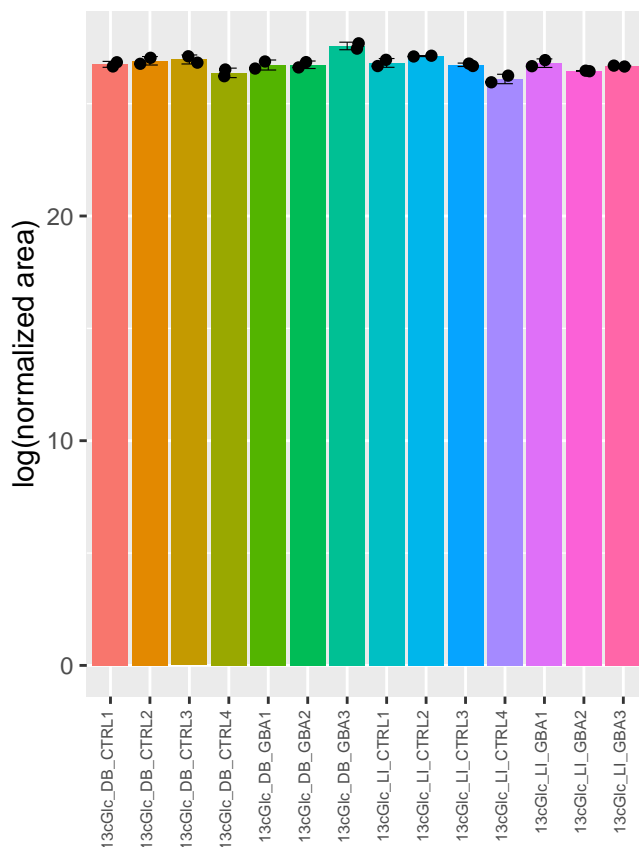
without PCV normalization



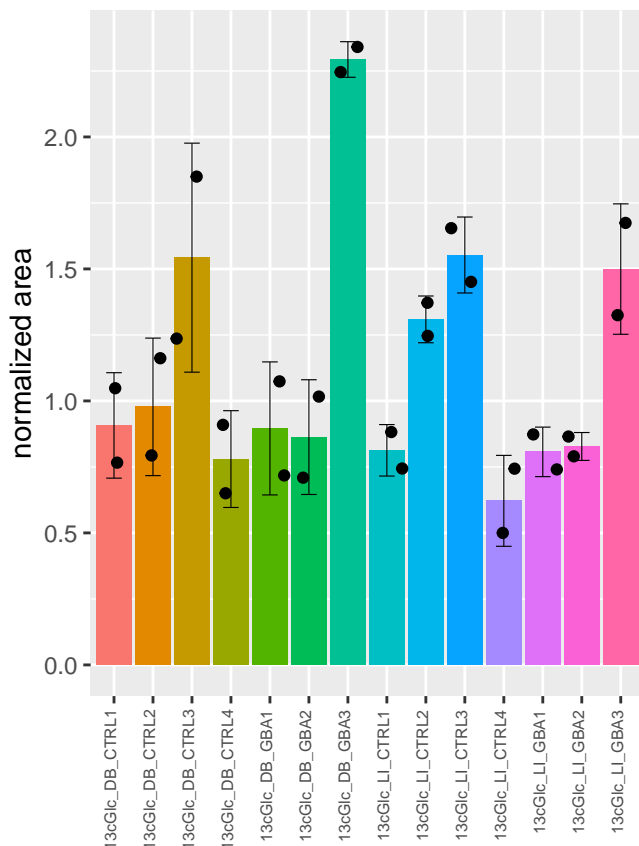
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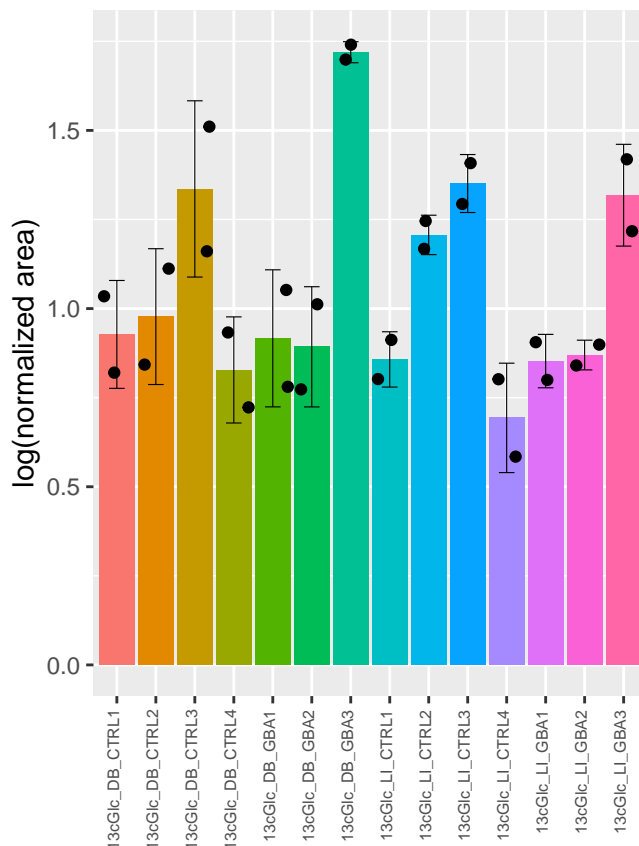
NAD



NAD

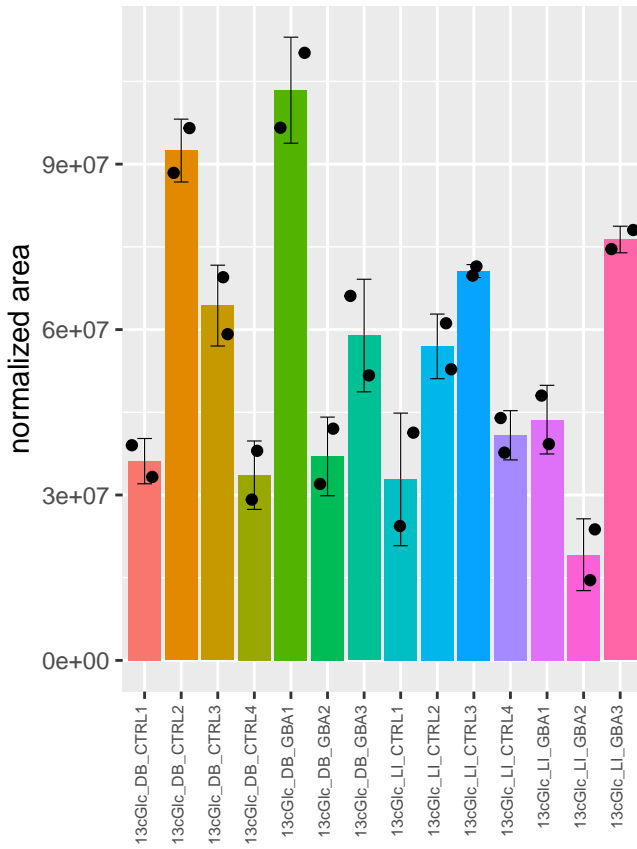


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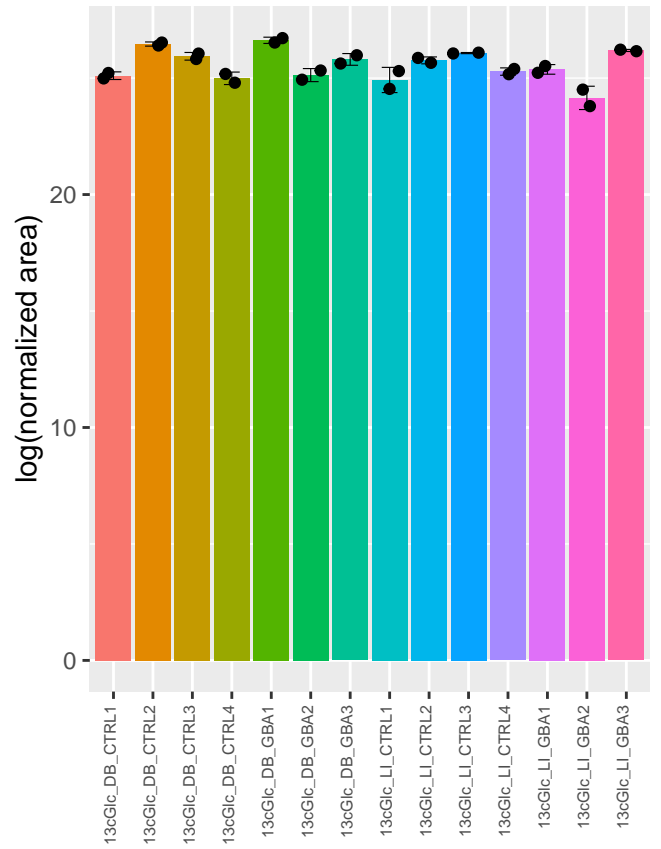


without PCV normalization

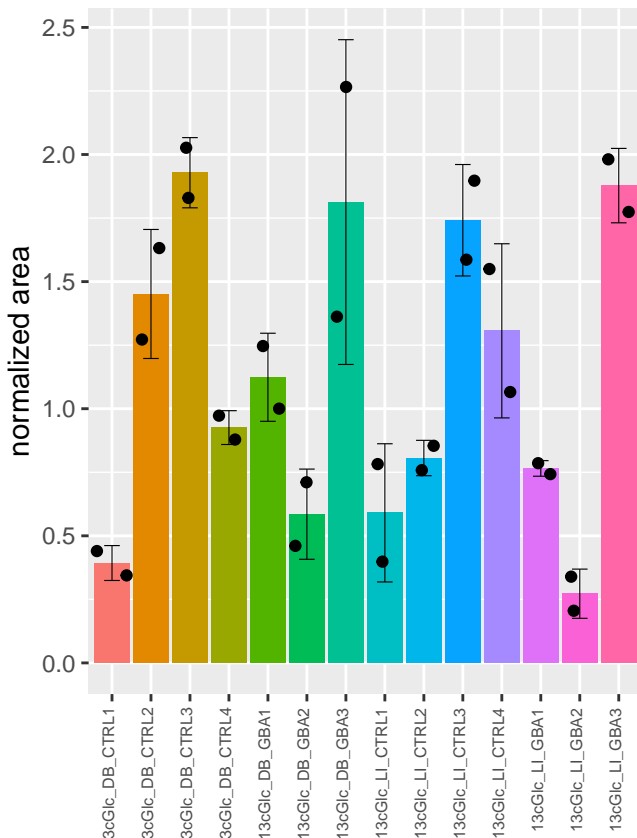
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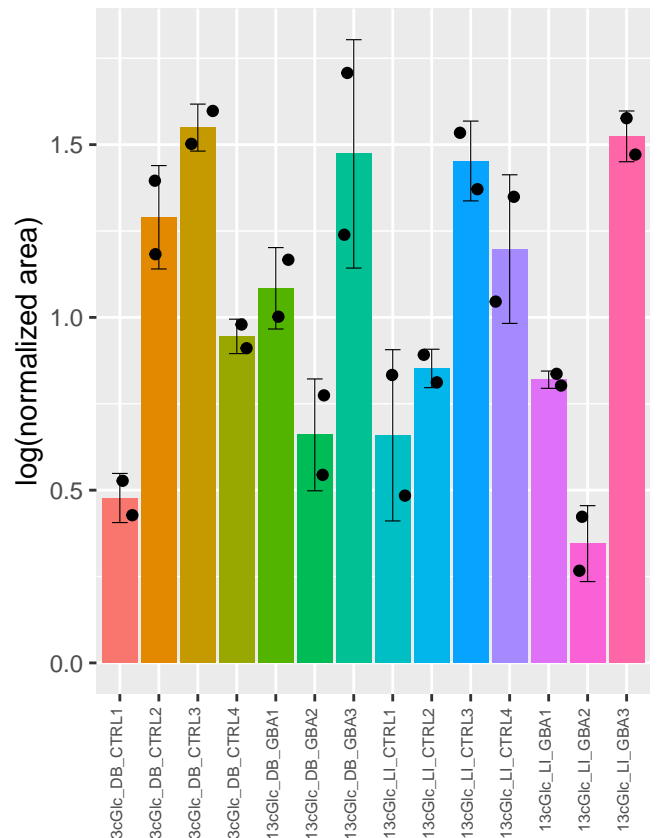
NADH



NADH

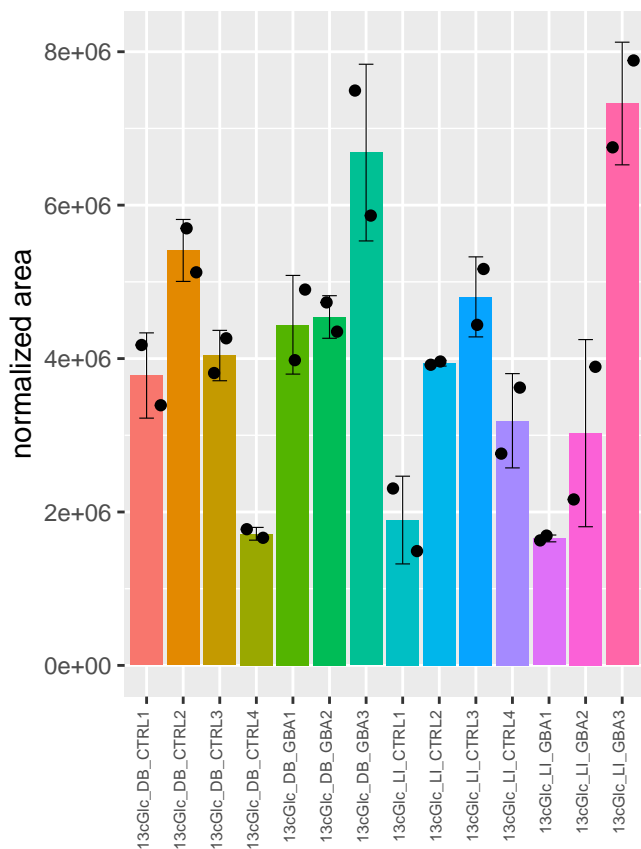


NADH

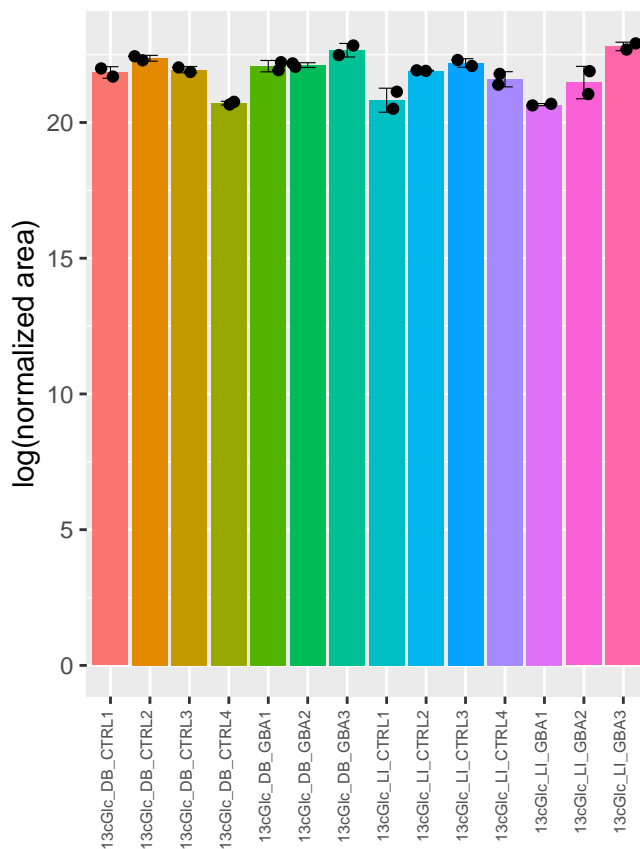


without PCV normalization

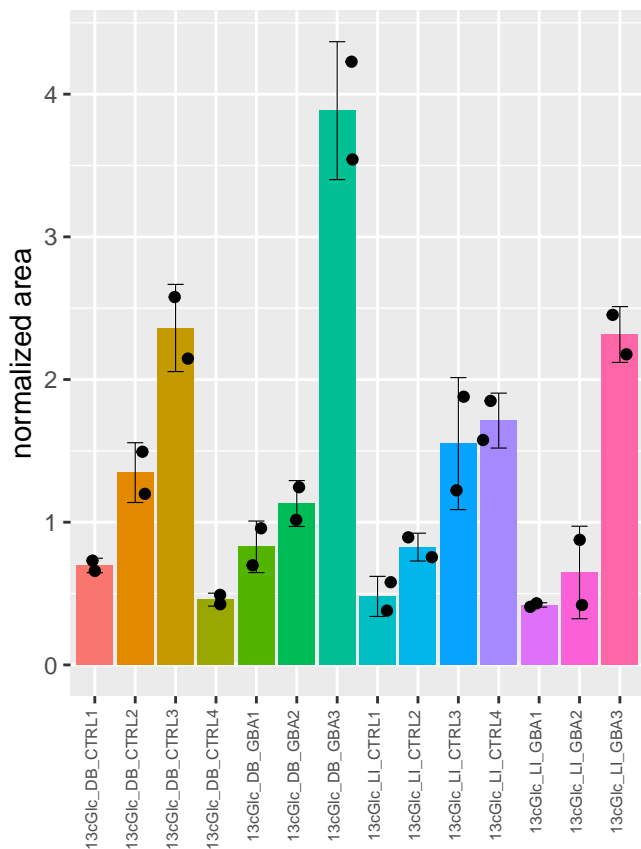
NADP



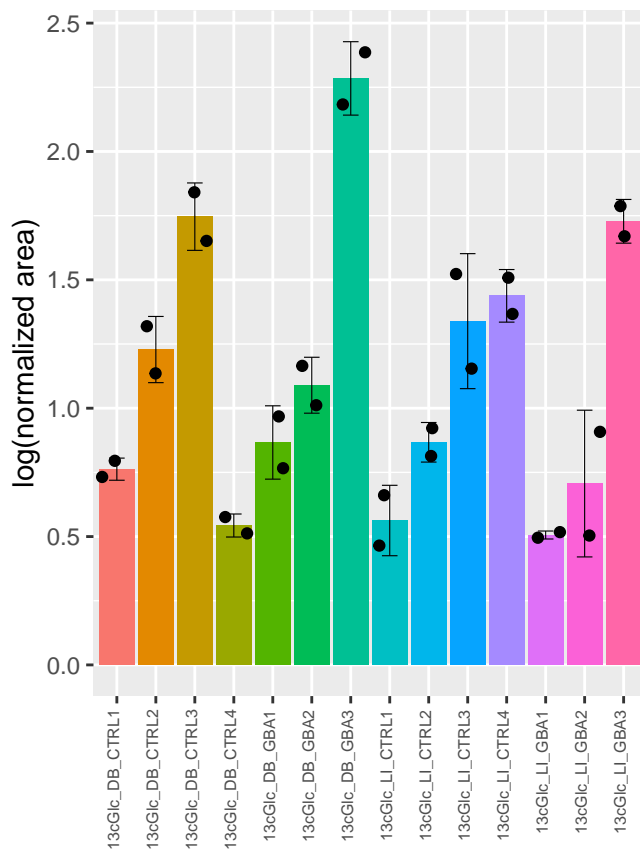
NADP



NADP

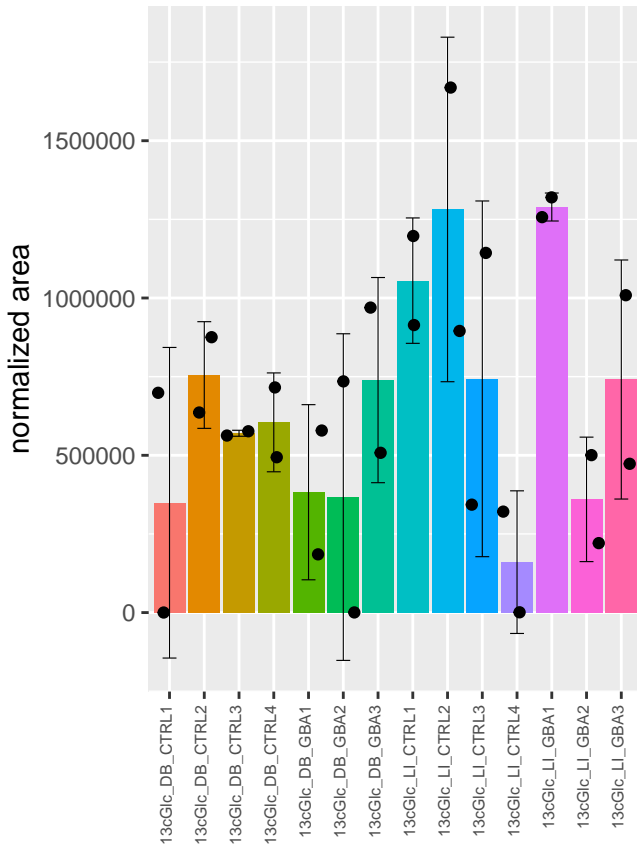


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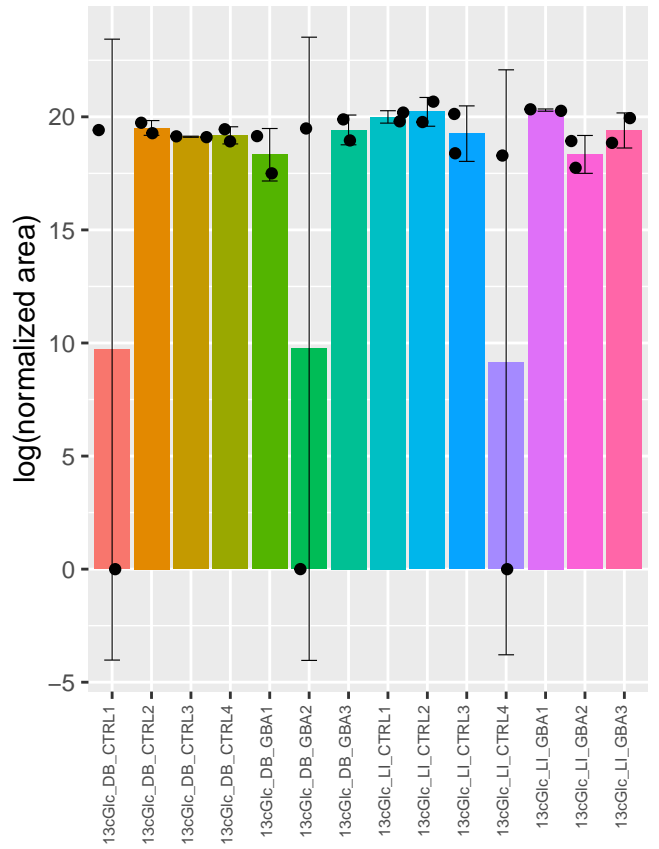


without PCV normalization

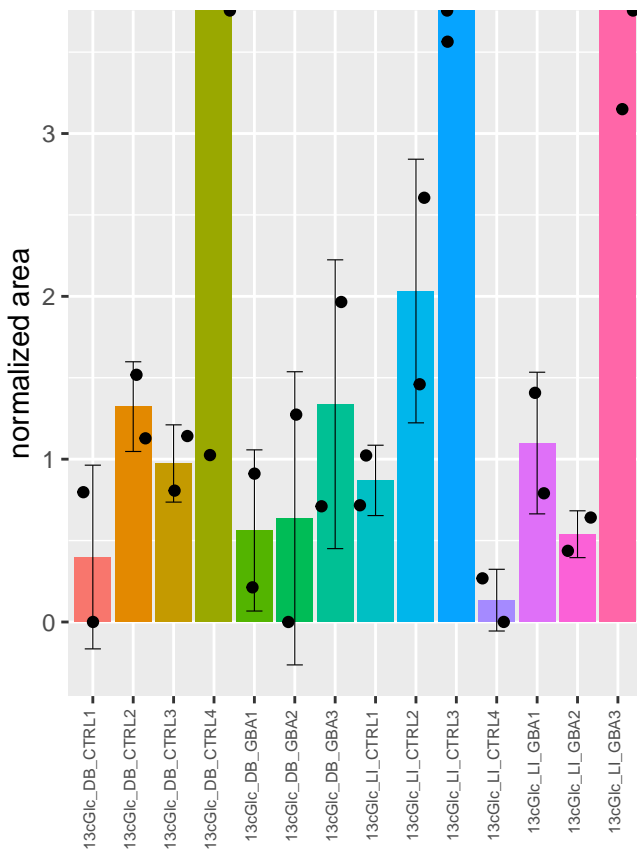
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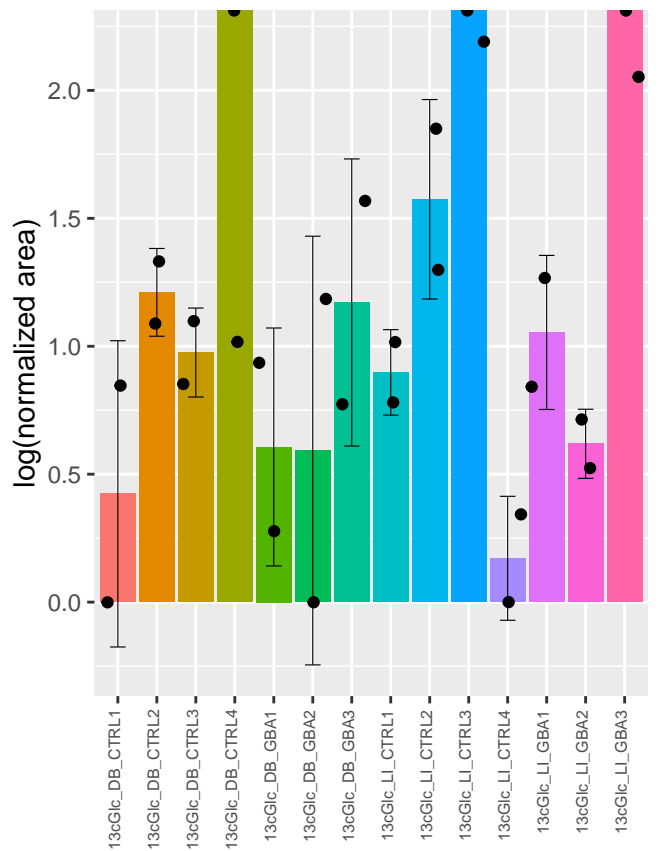
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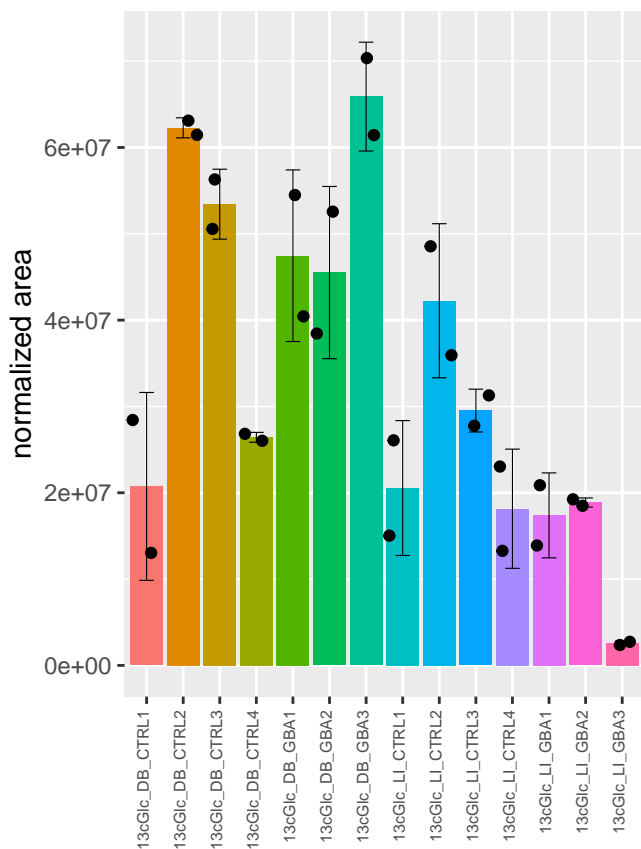
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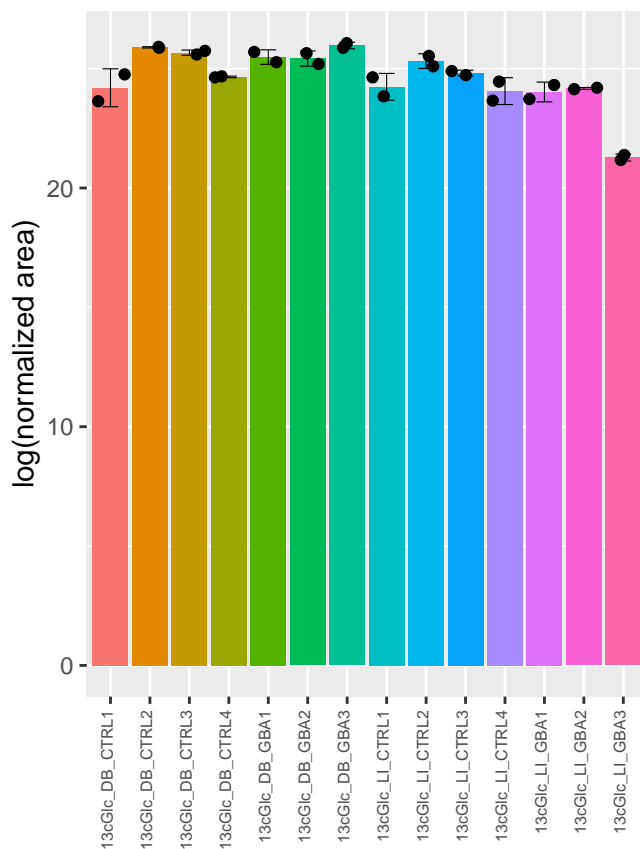
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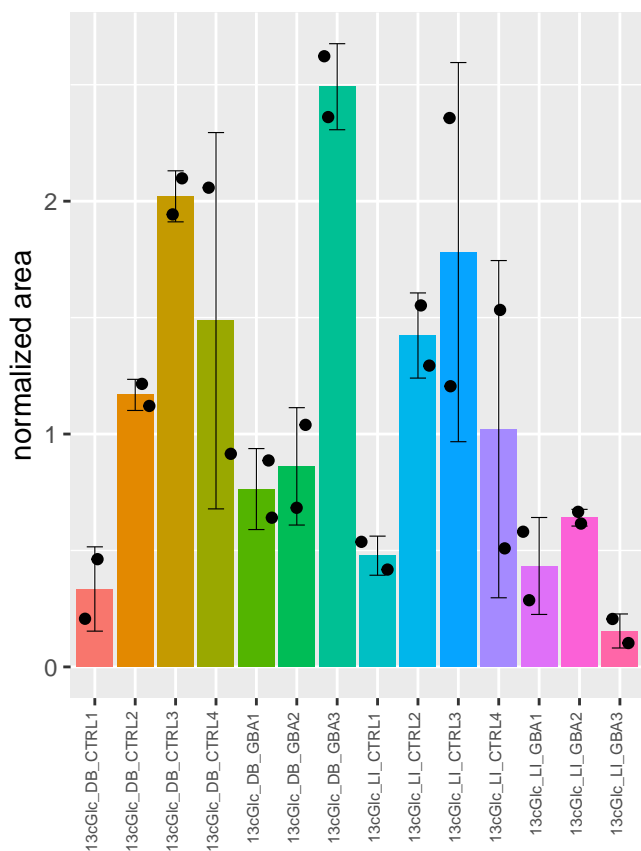
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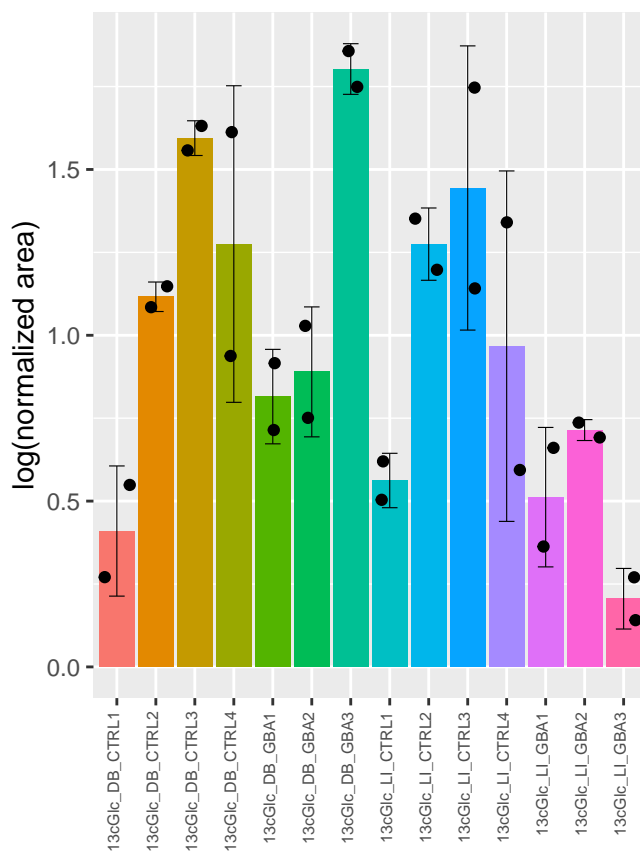
PEP



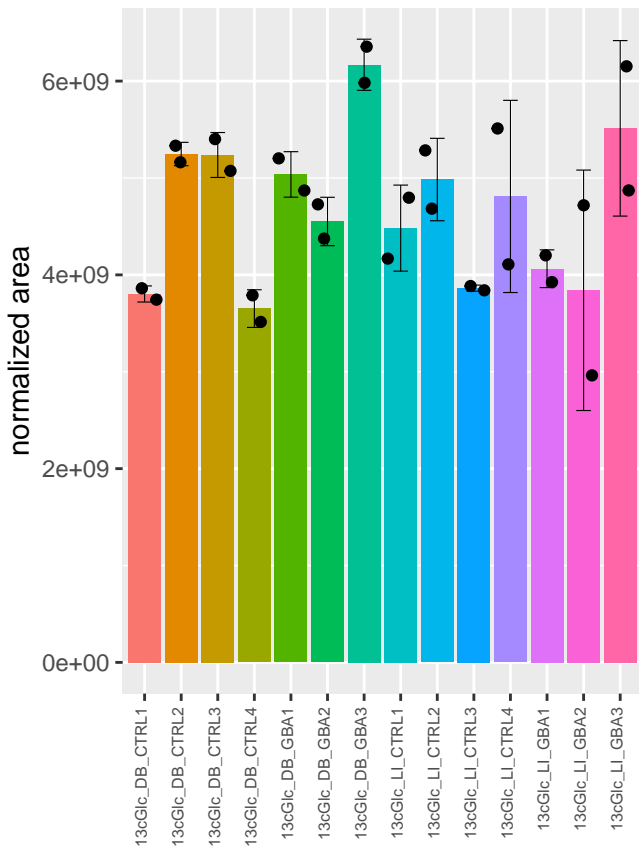
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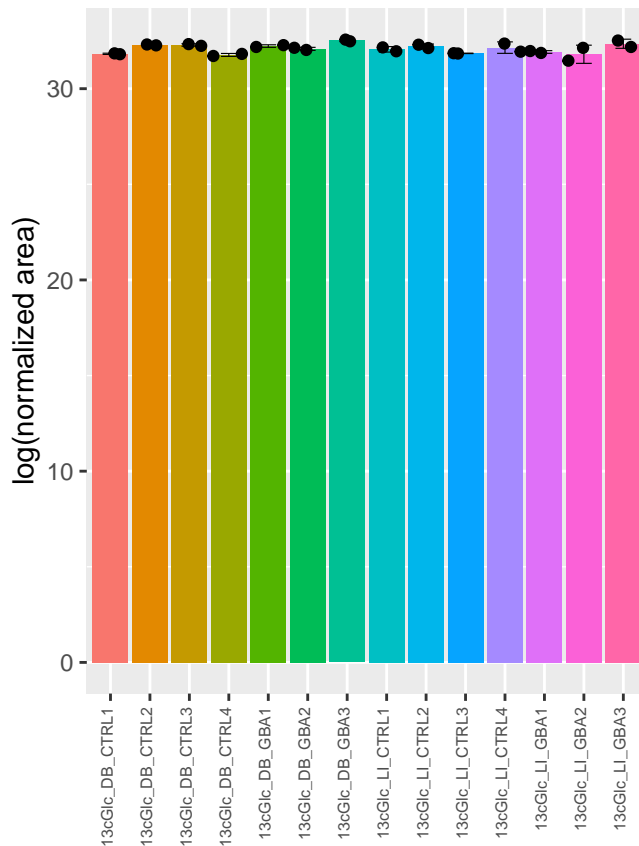
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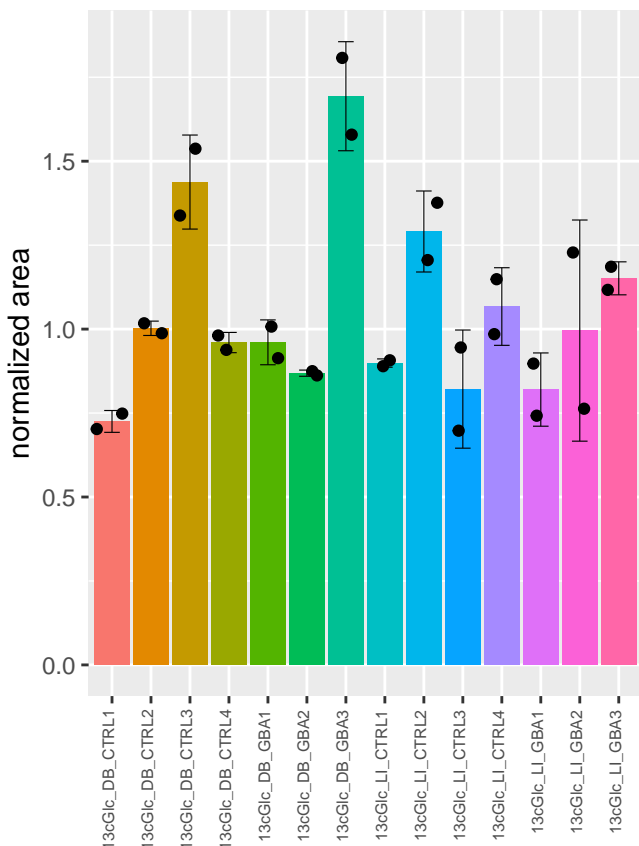
Phenylalanine



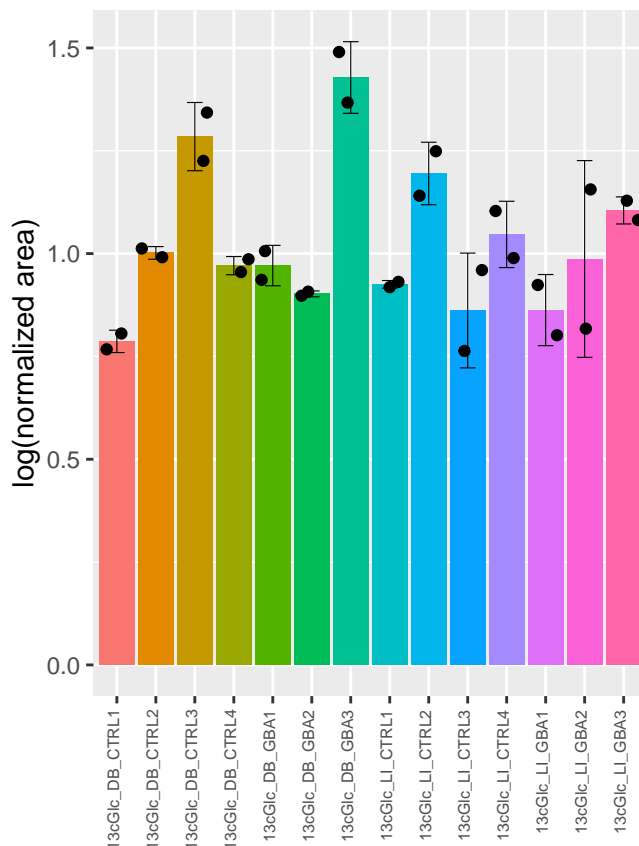
Phenylalanine



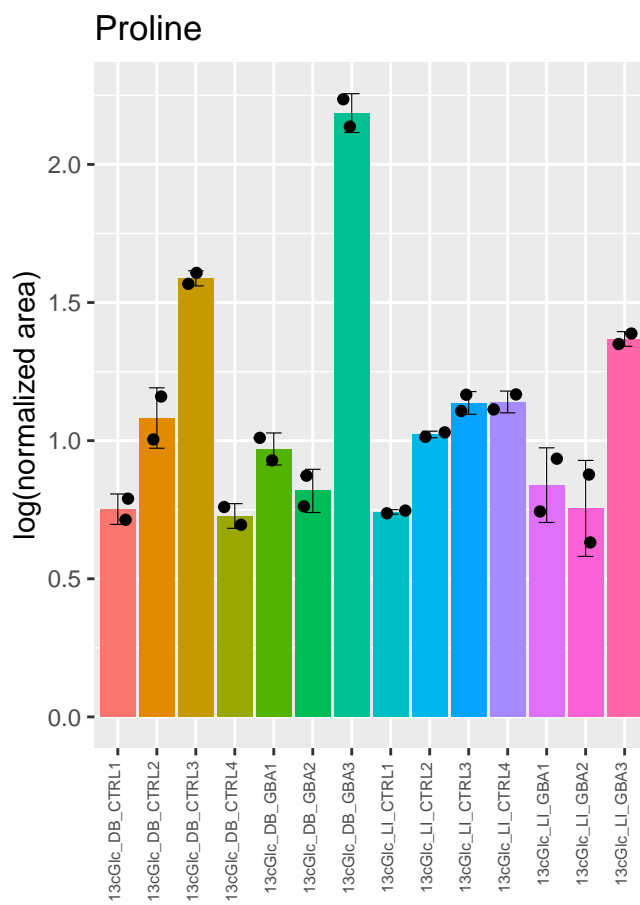
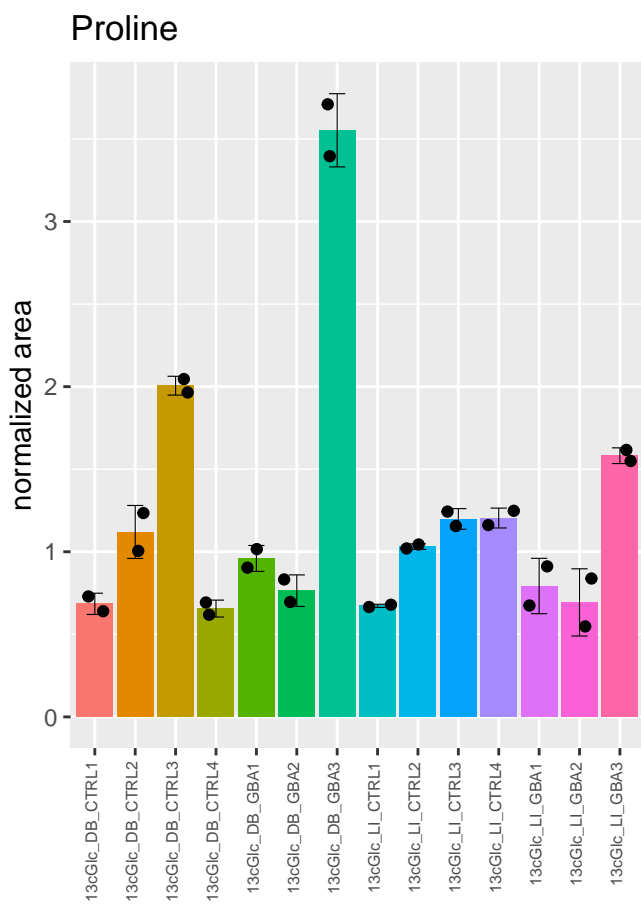
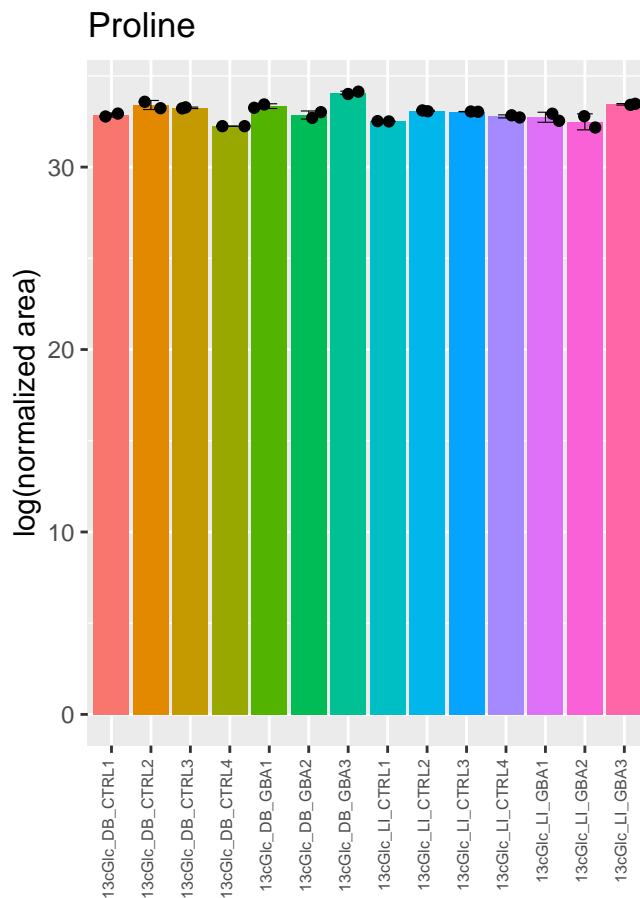
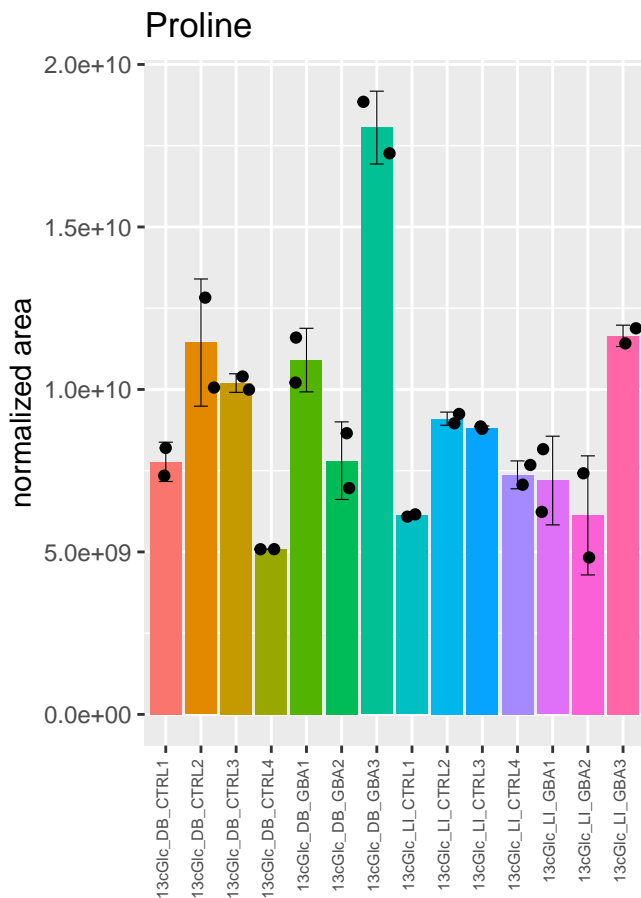
Phenylalanine



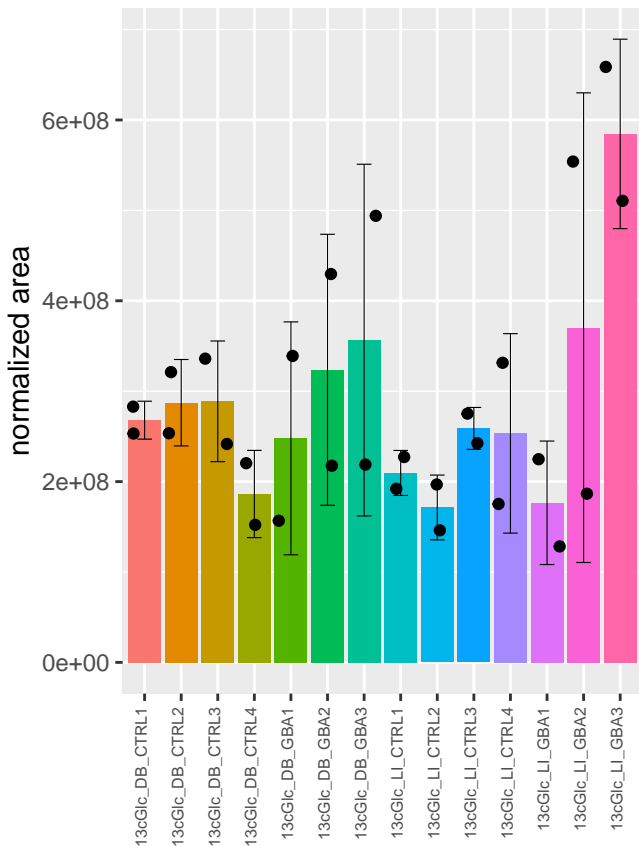
Phenylalanine



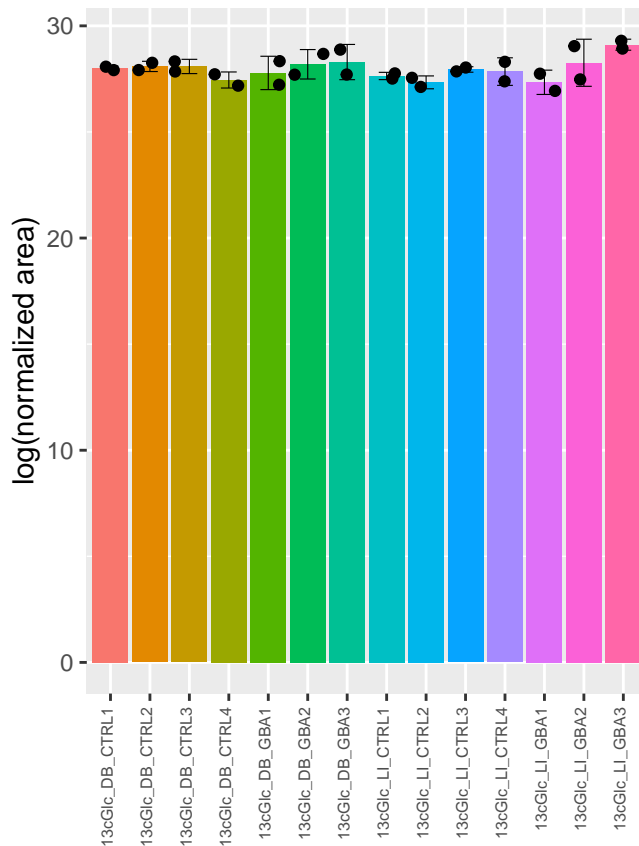
without PCV normalization



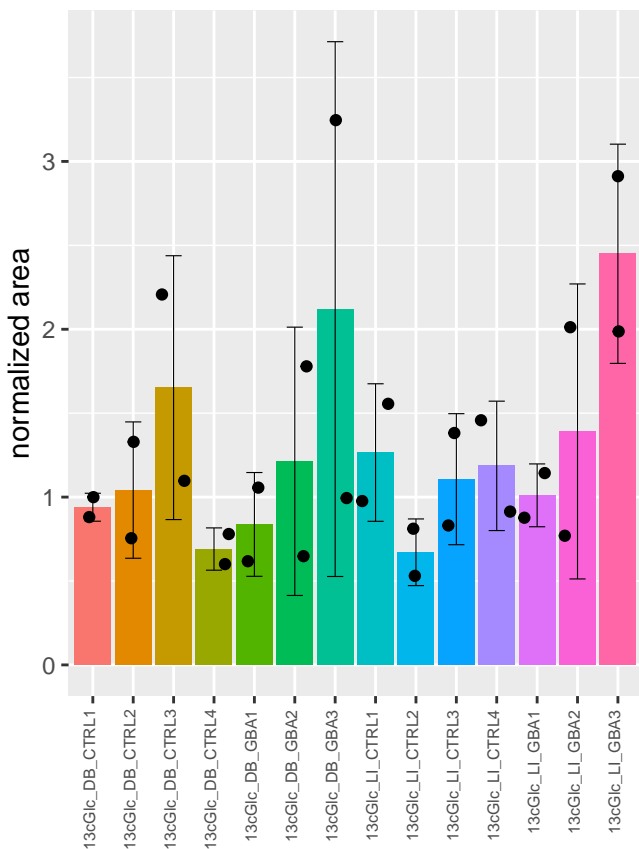
Pyruvate



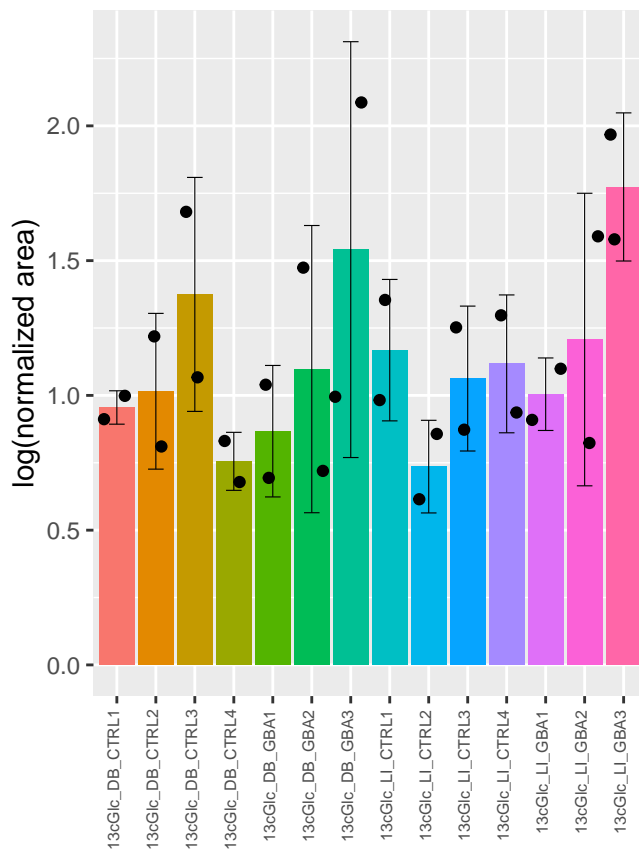
Pyruvate



Pyruvate

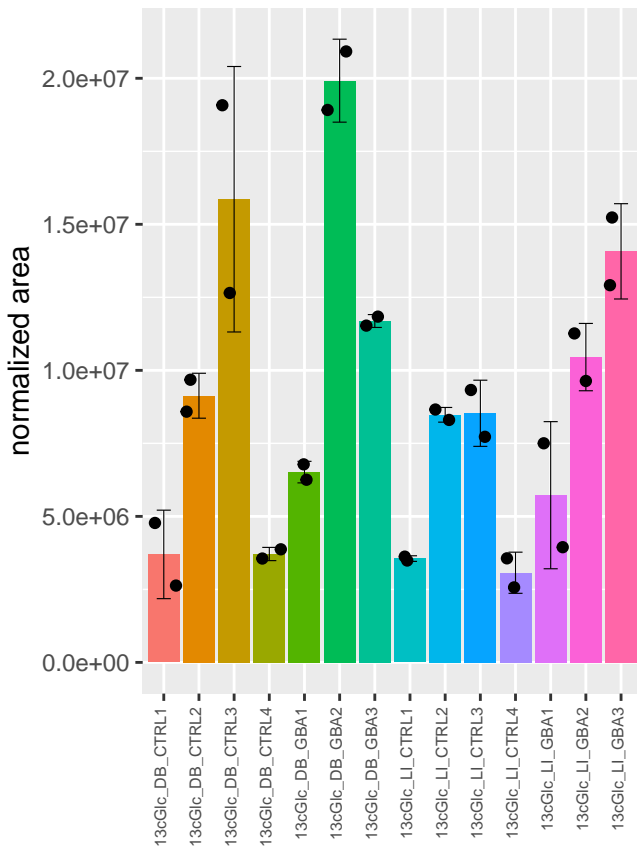


Pyruvate

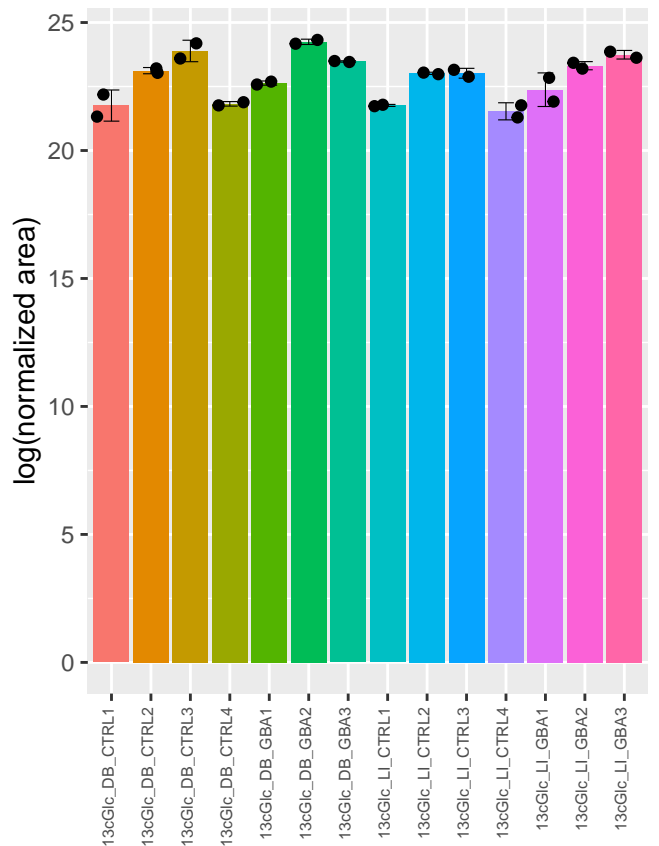


without PCV normalization

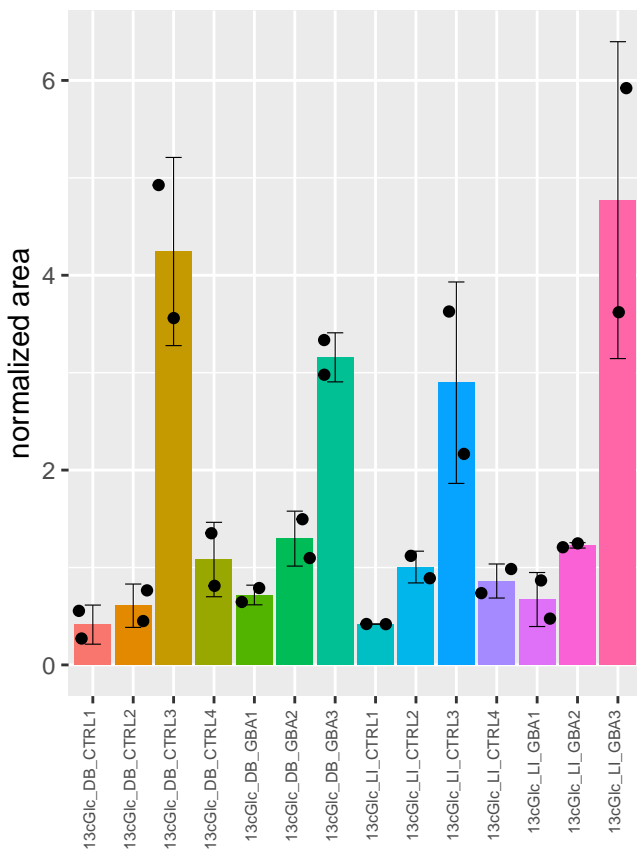
Ribose phosphate



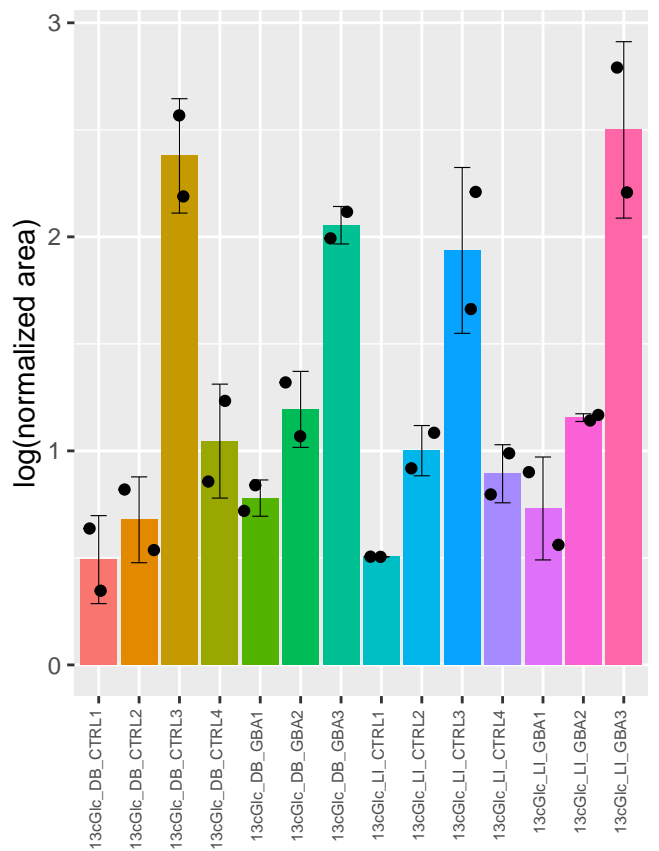
Ribose phosphate



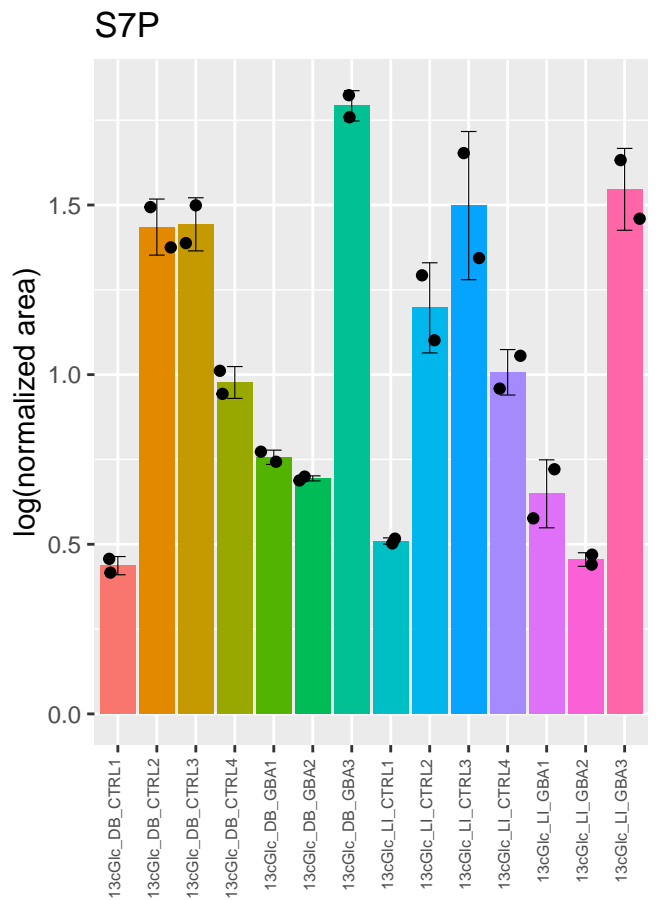
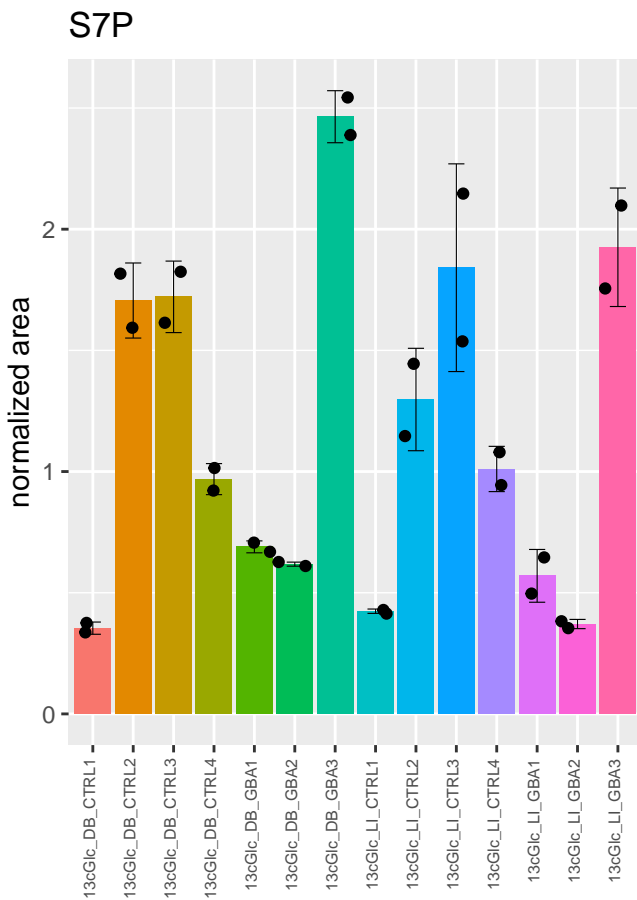
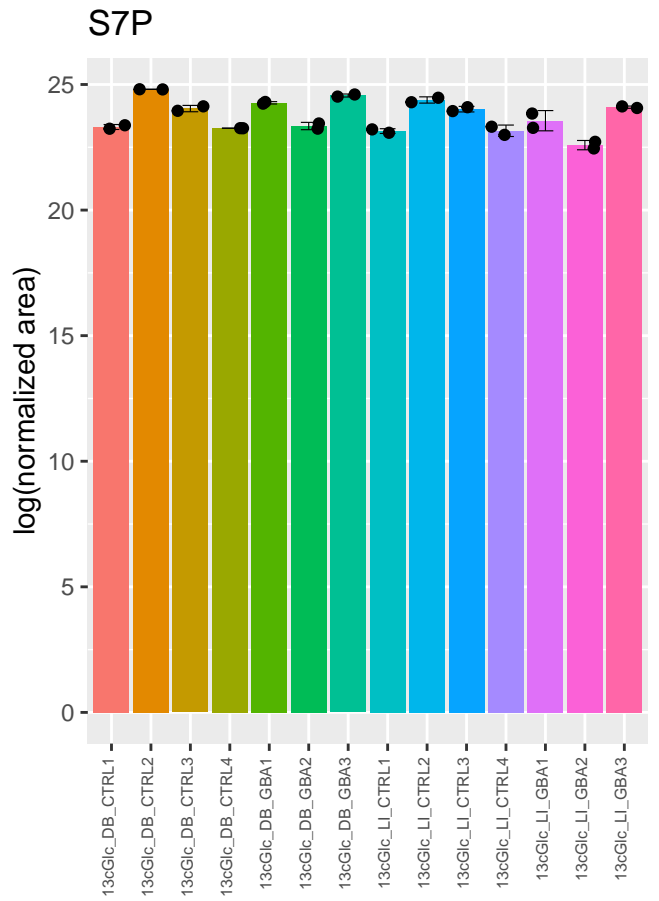
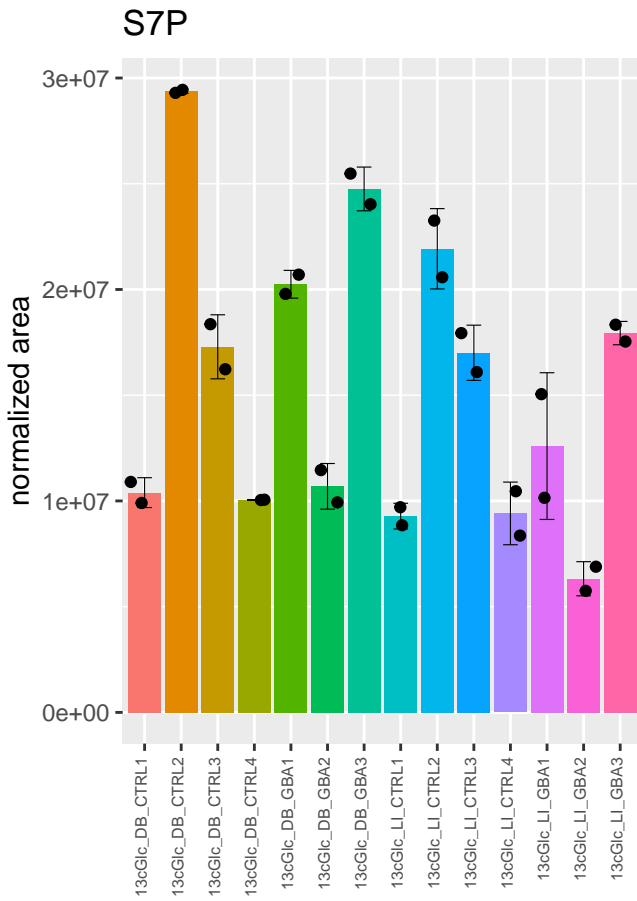
Ribose phosphate



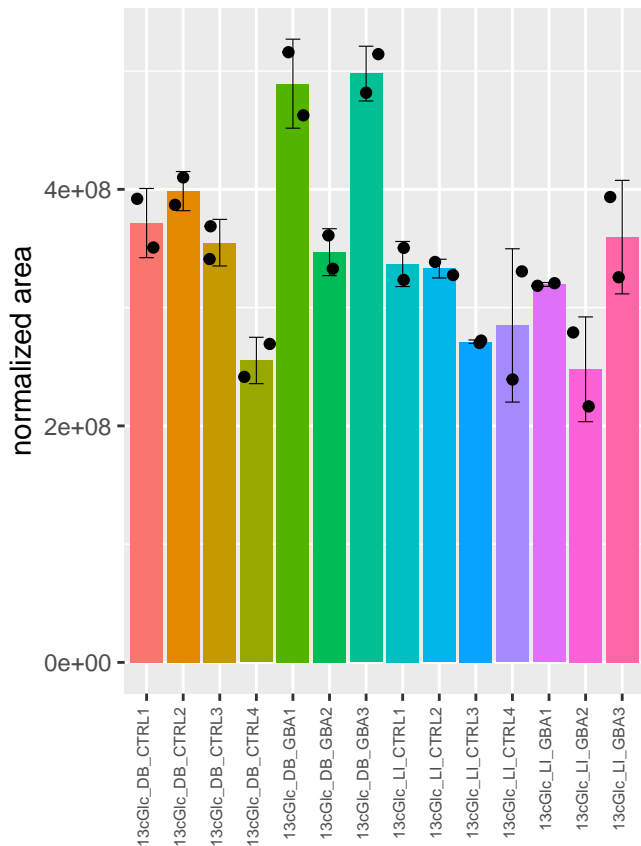
Ribose phosphate



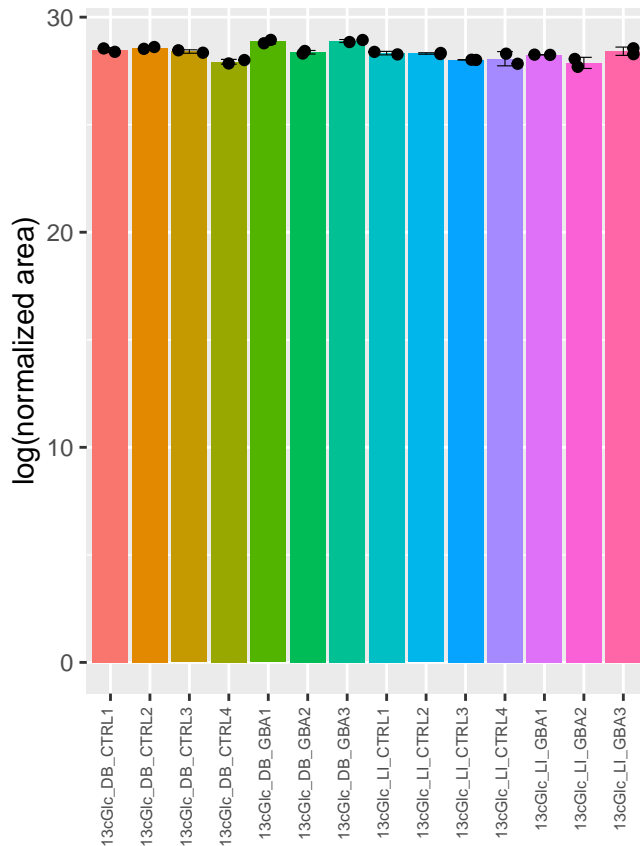
without PCV normalization



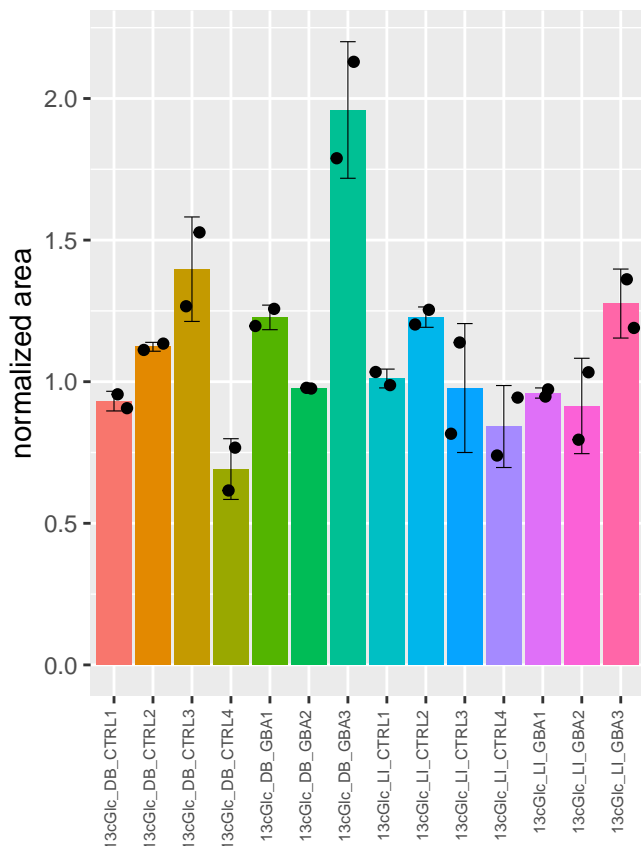
Serine



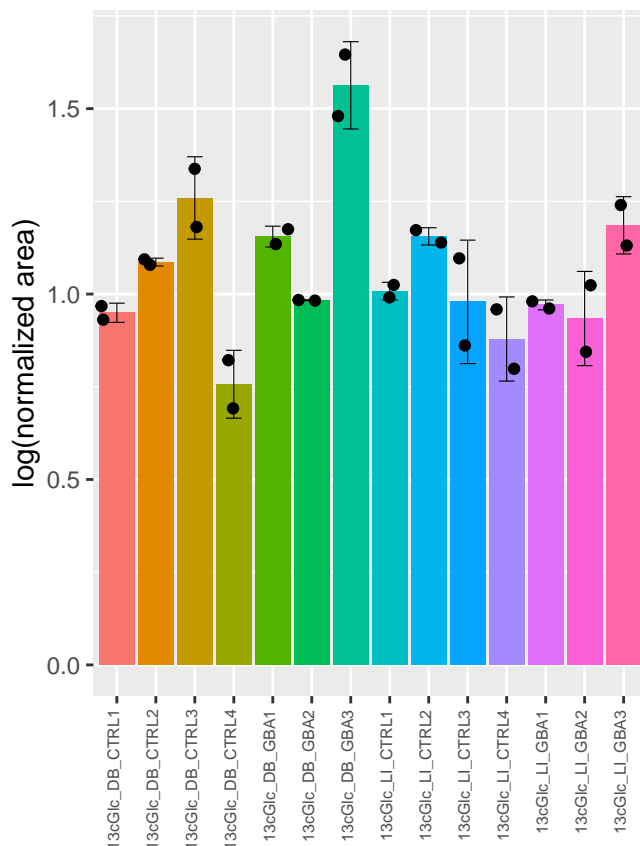
Serine



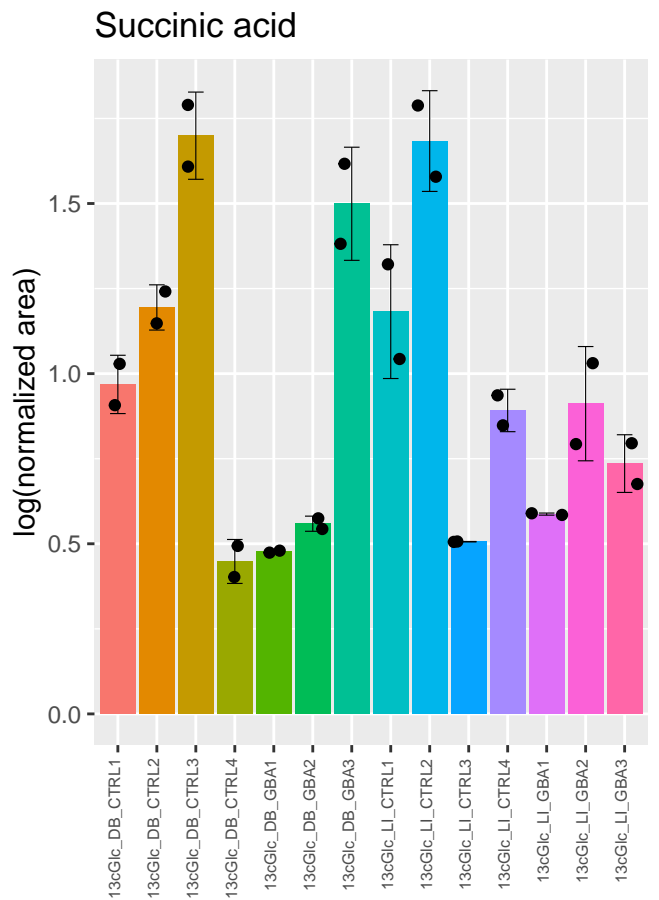
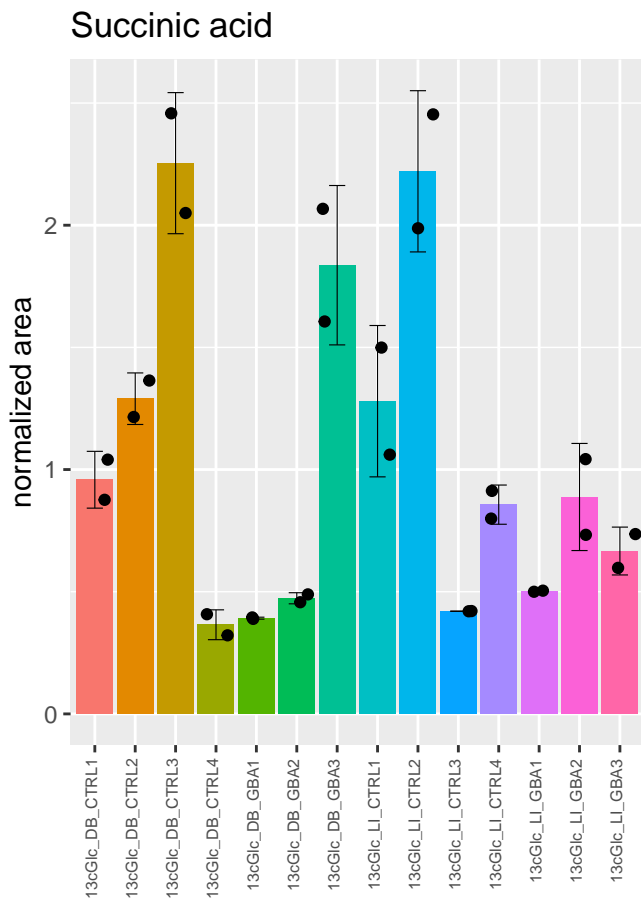
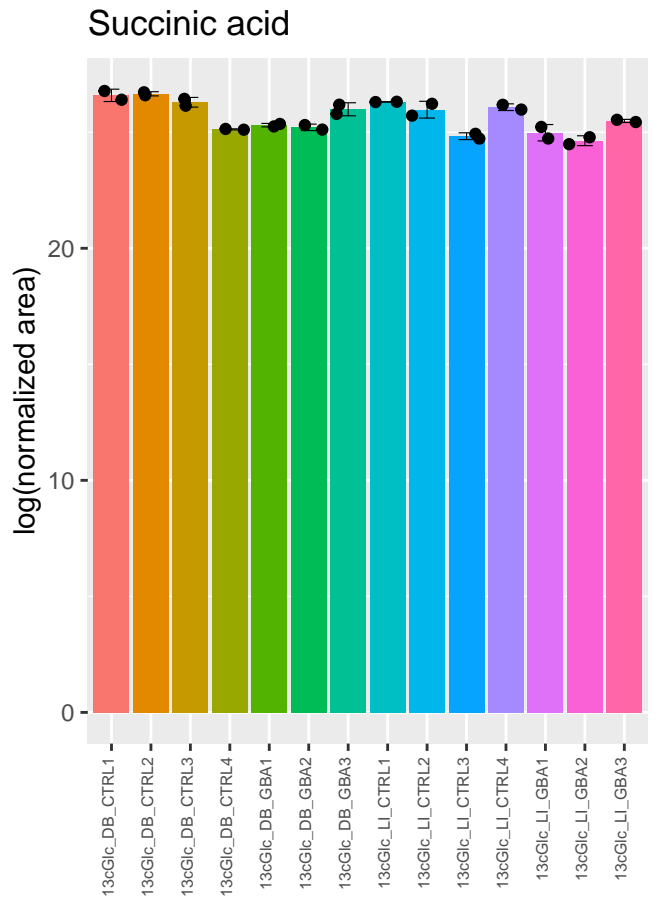
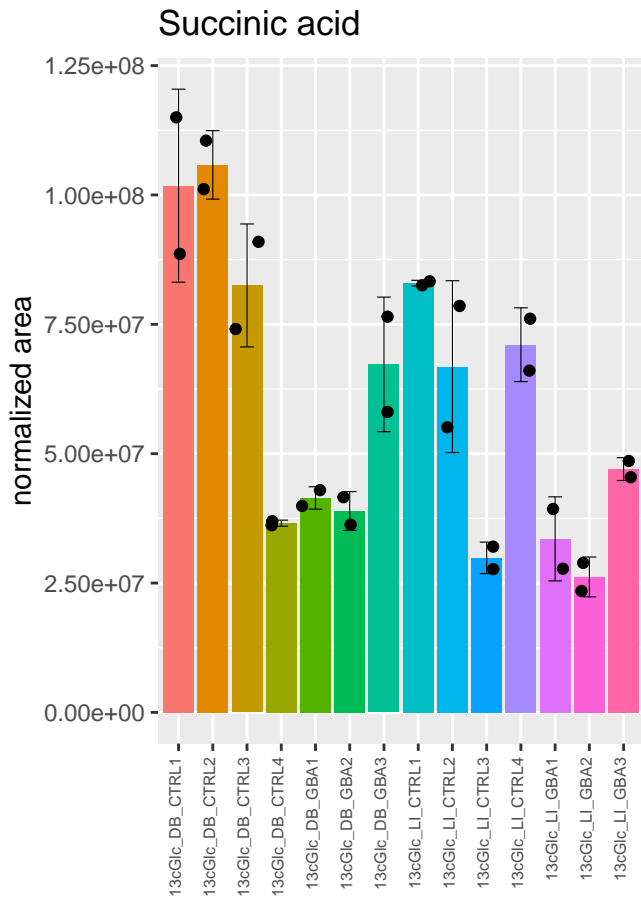
Serine



Serine

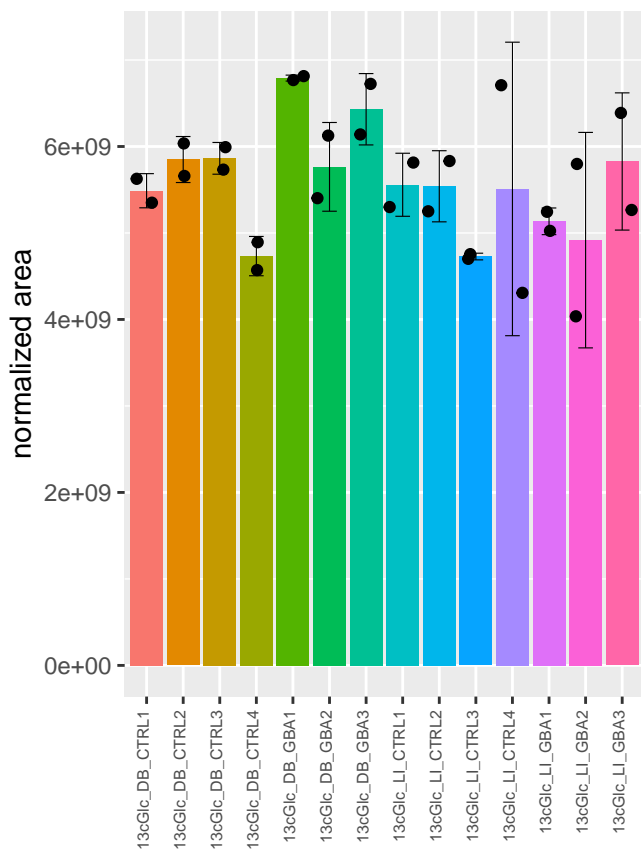


without PCV normalization

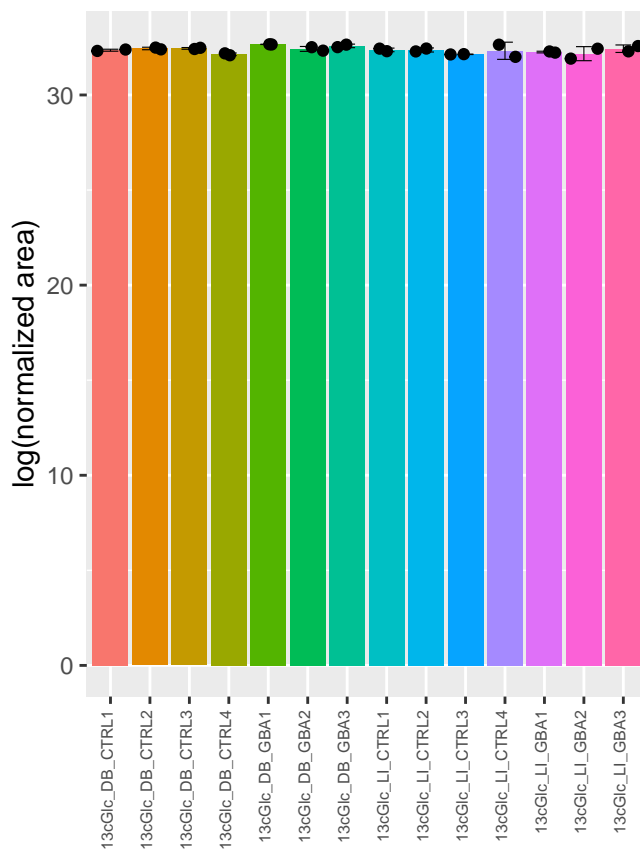


without PCV normalization

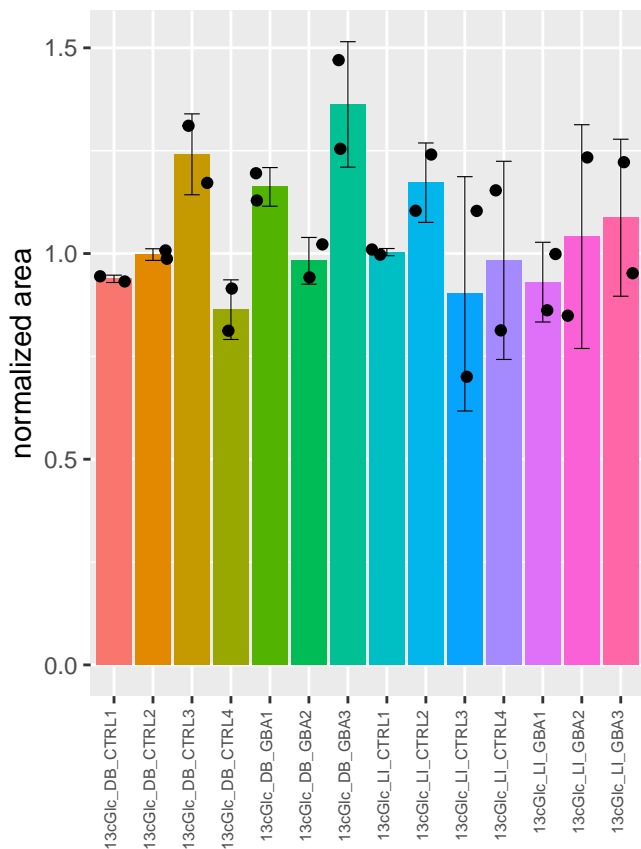
threonine



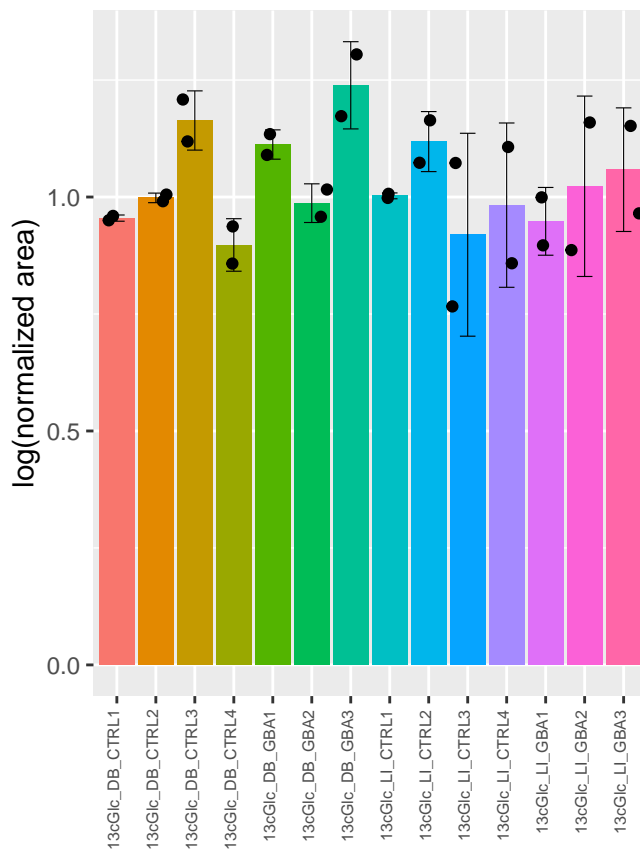
threonine



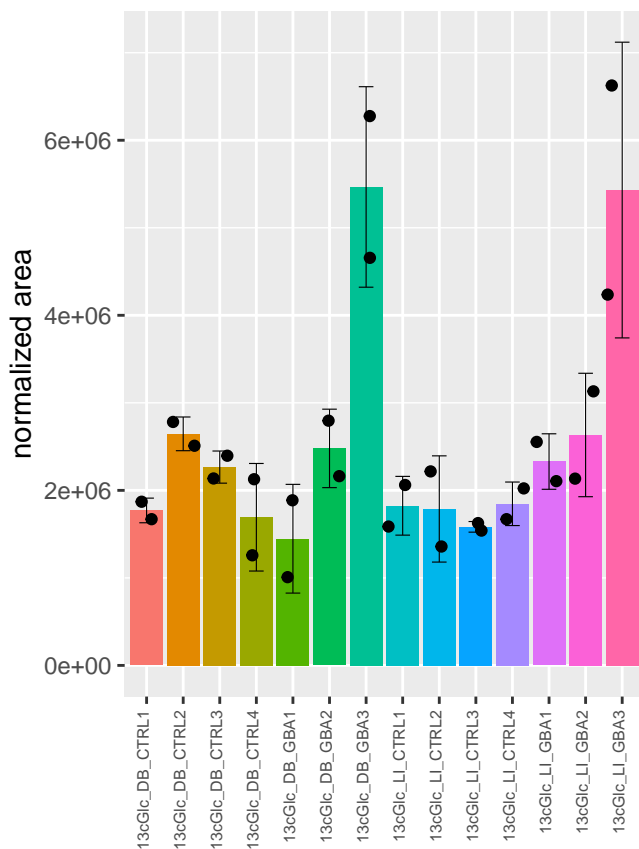
threonine



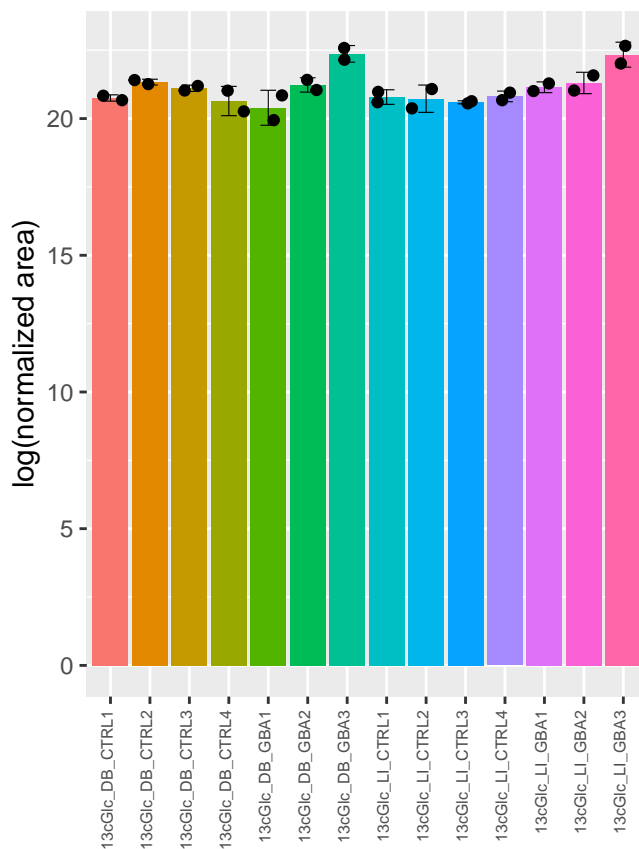
threonine



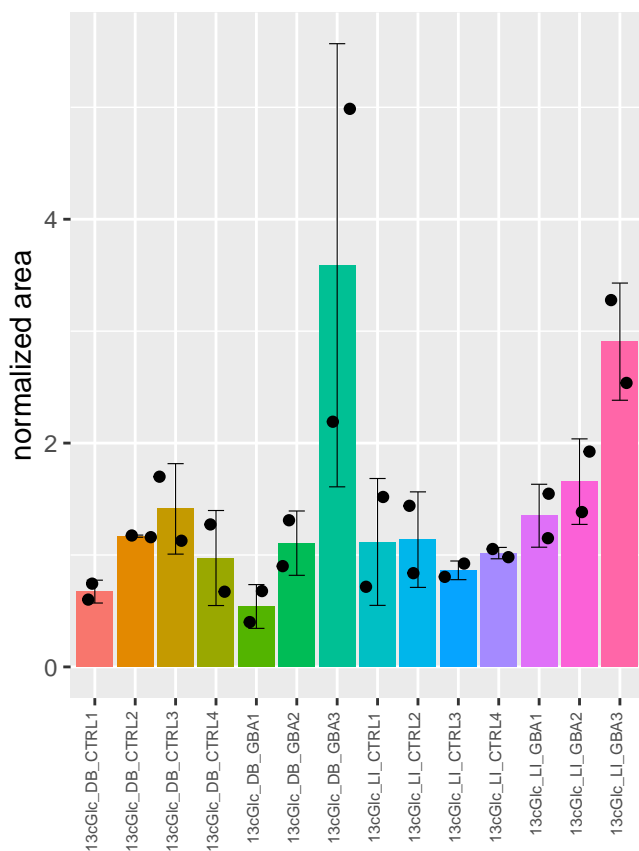
Thymine



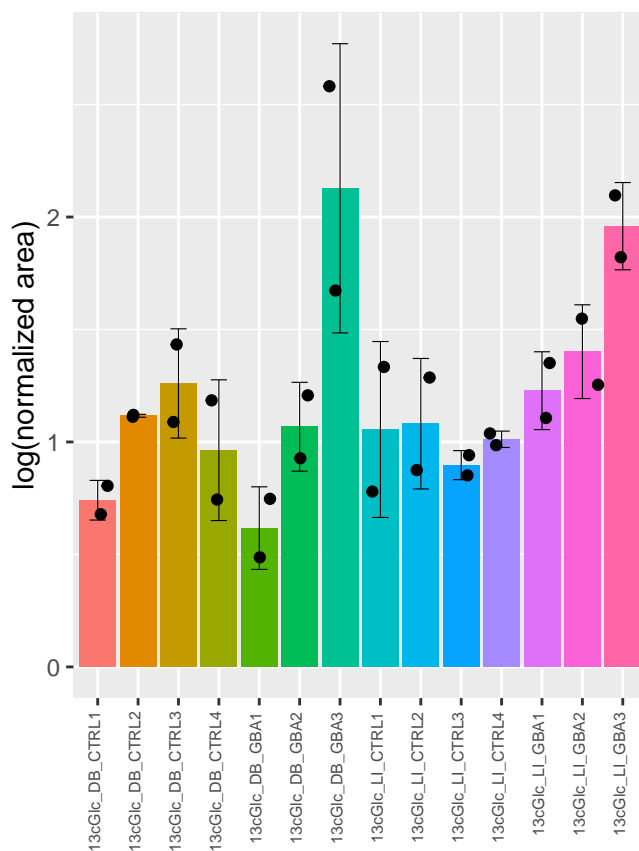
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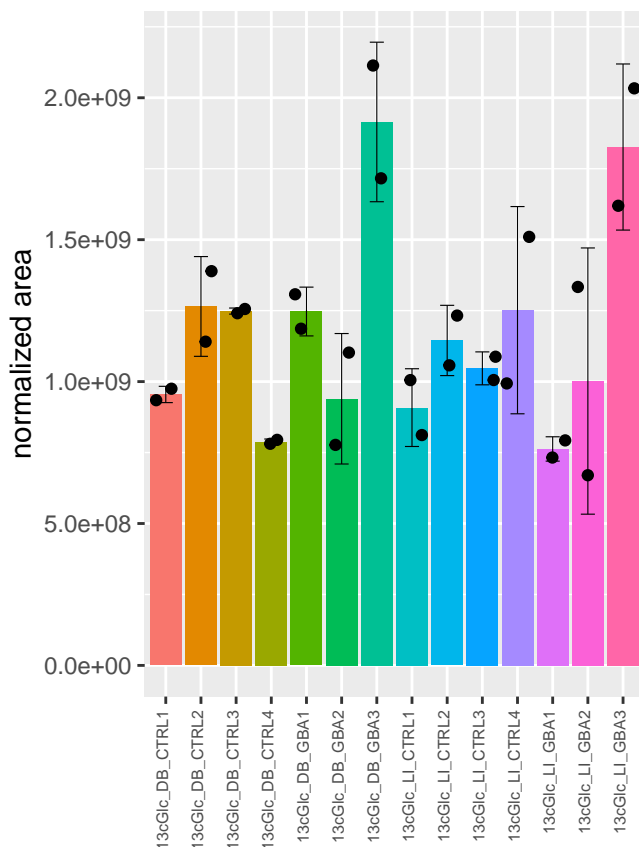
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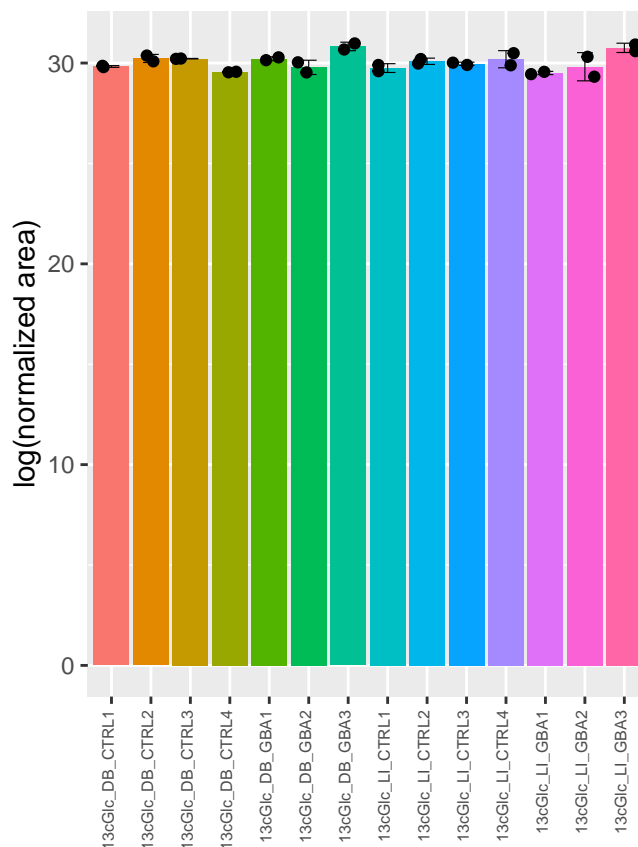
Thymine



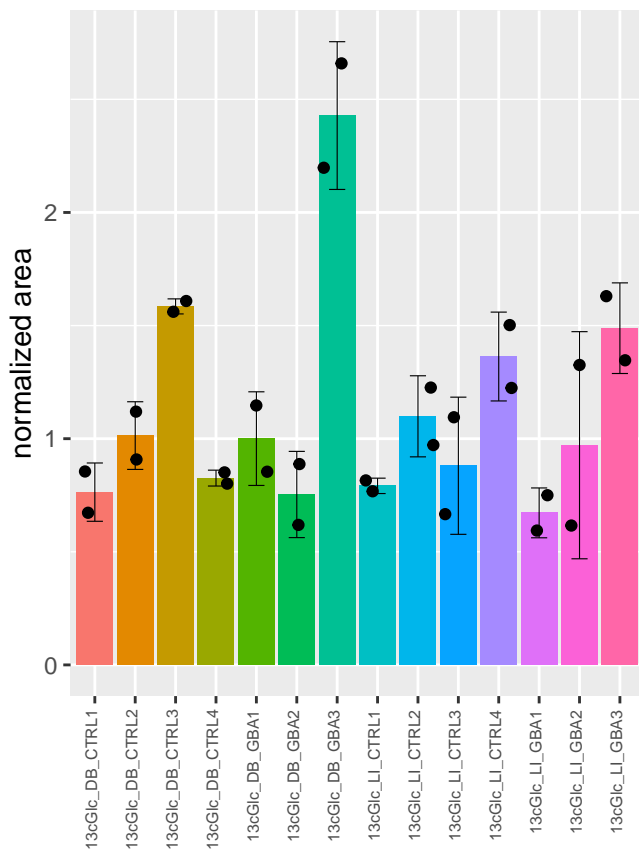
tryptophan



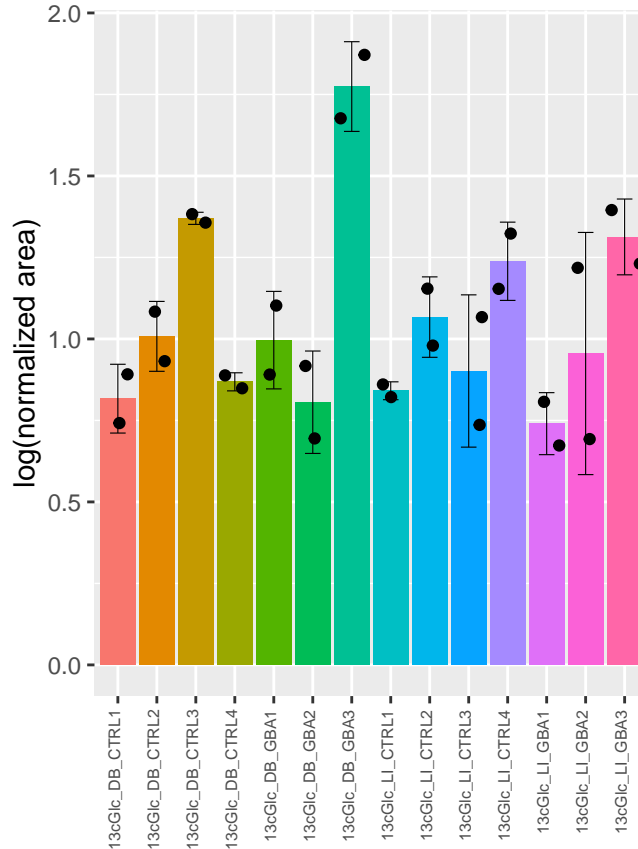
tryptophan



tryptophan

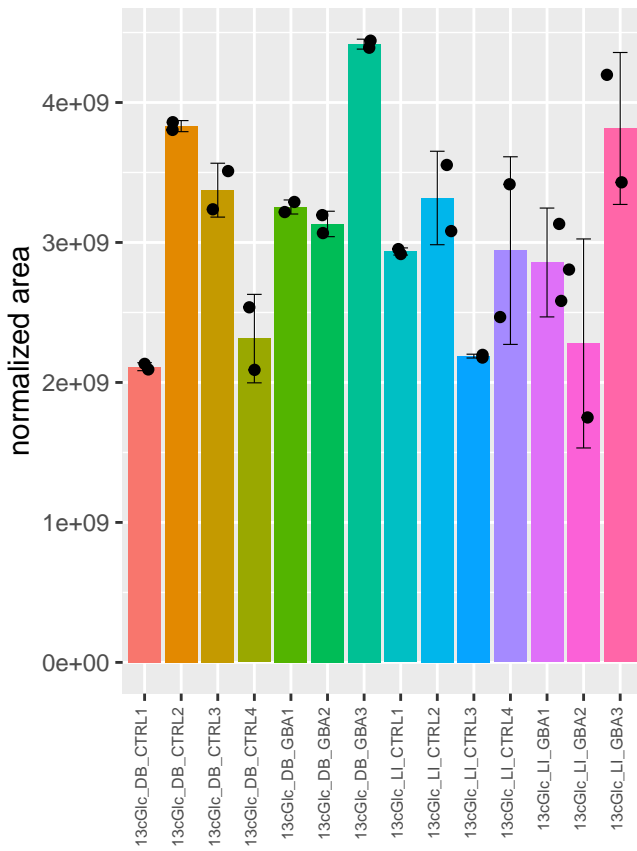


tryptophan

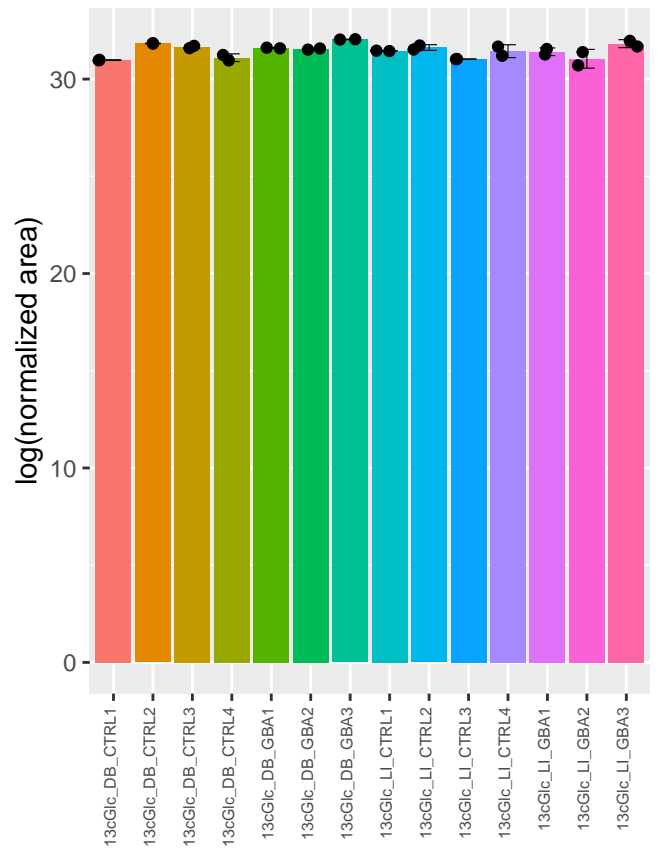


without PCV normalization

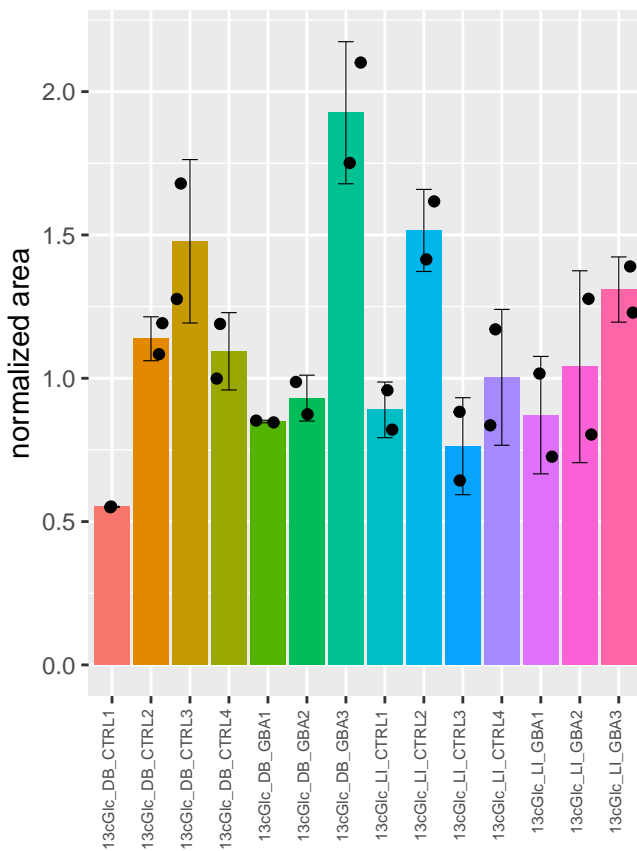
Tyrosine



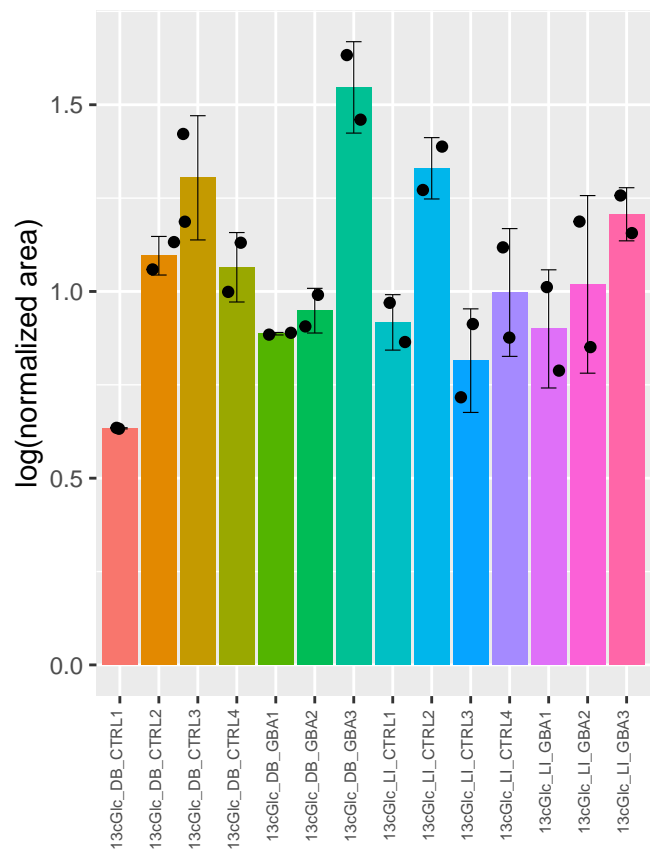
Tyrosine



Tyrosine

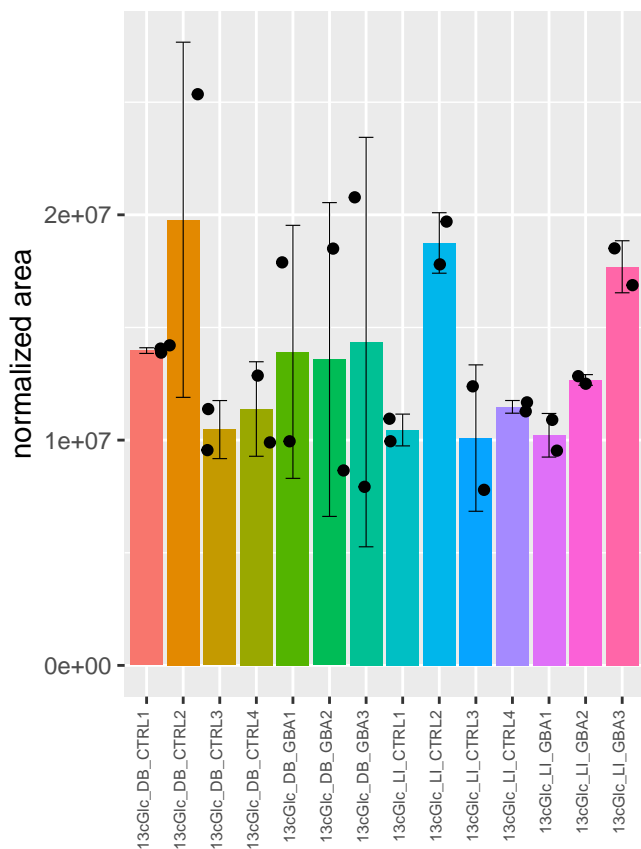


Tyrosine

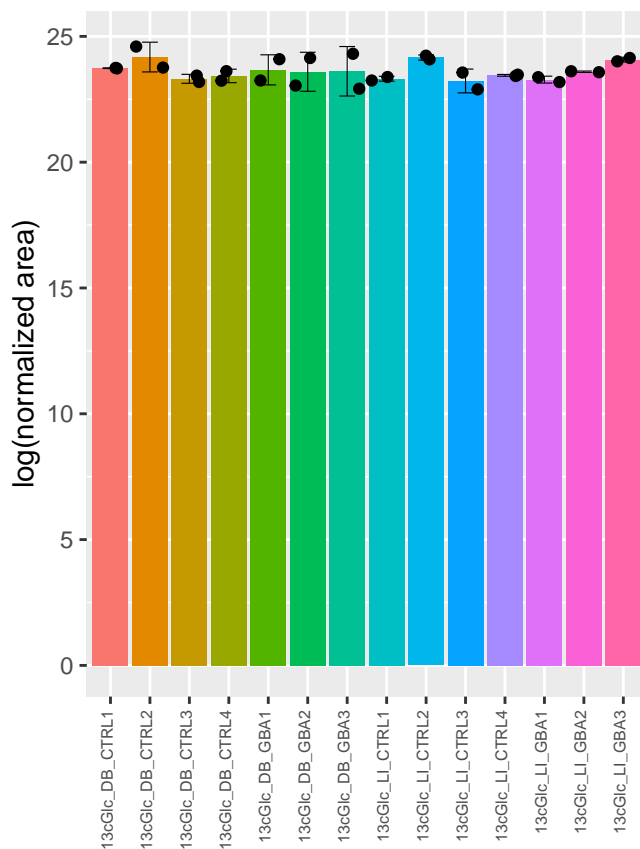


without PCV normalization

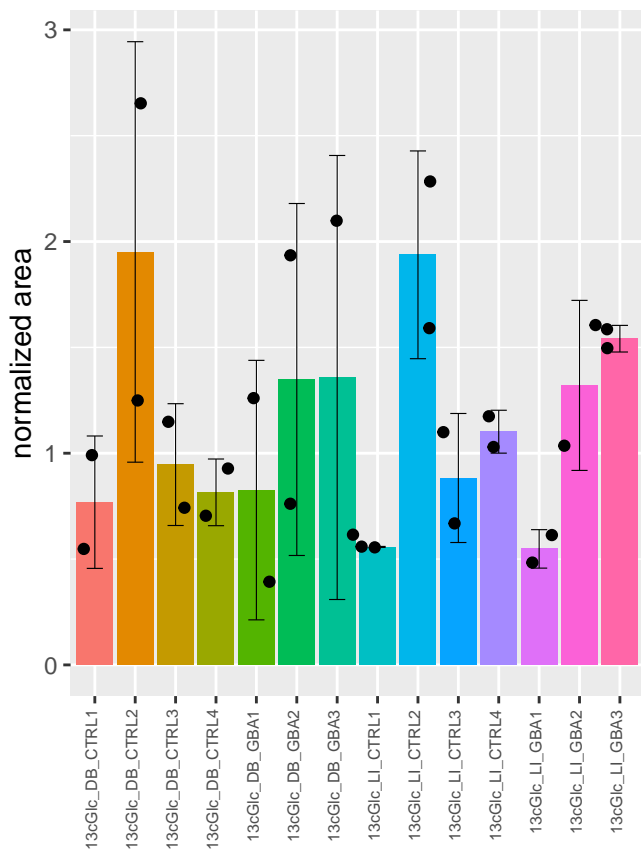
UDP



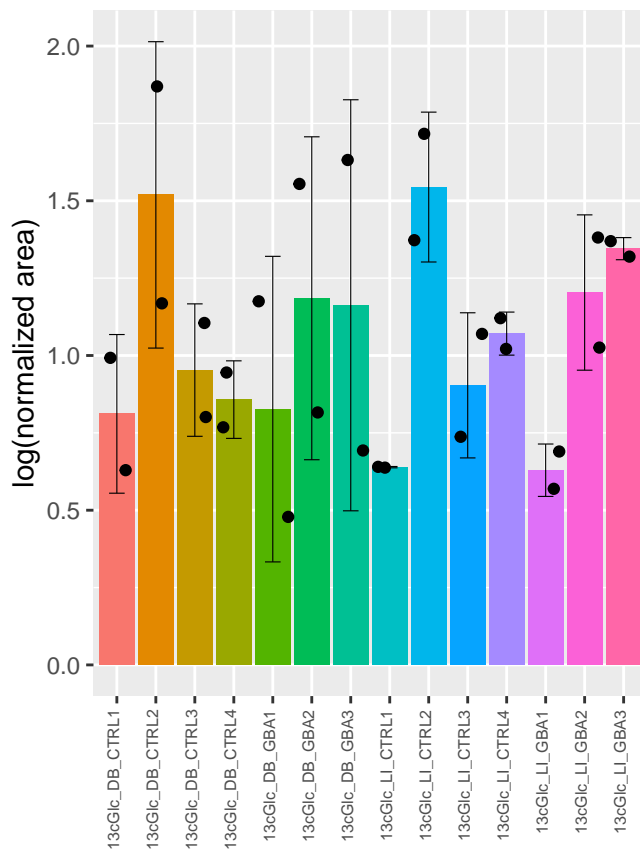
UDP



UDP

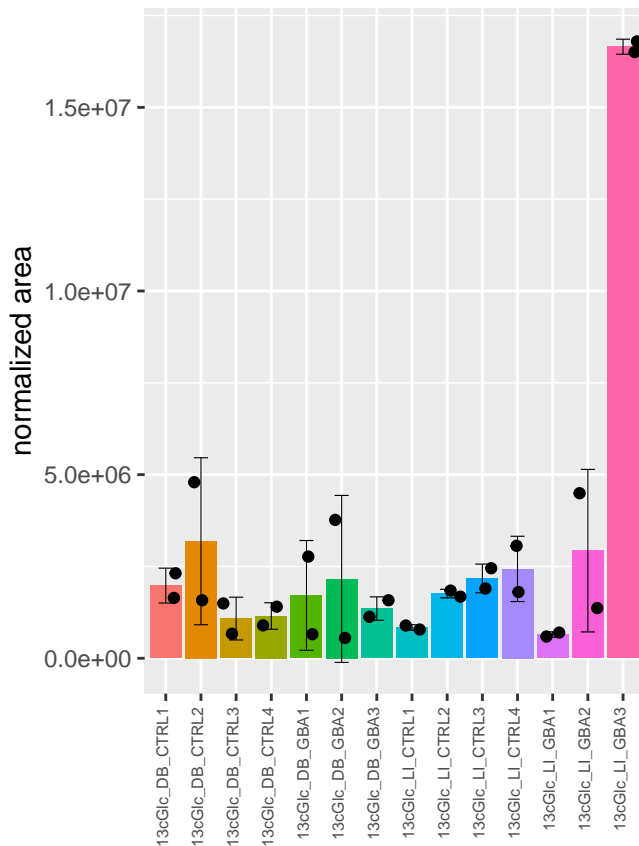


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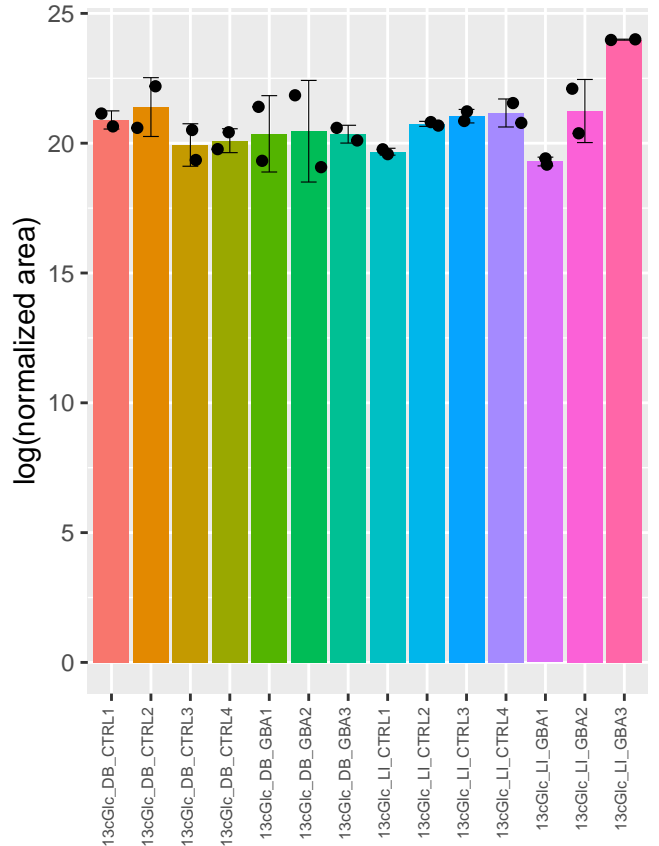


without PCV normalization

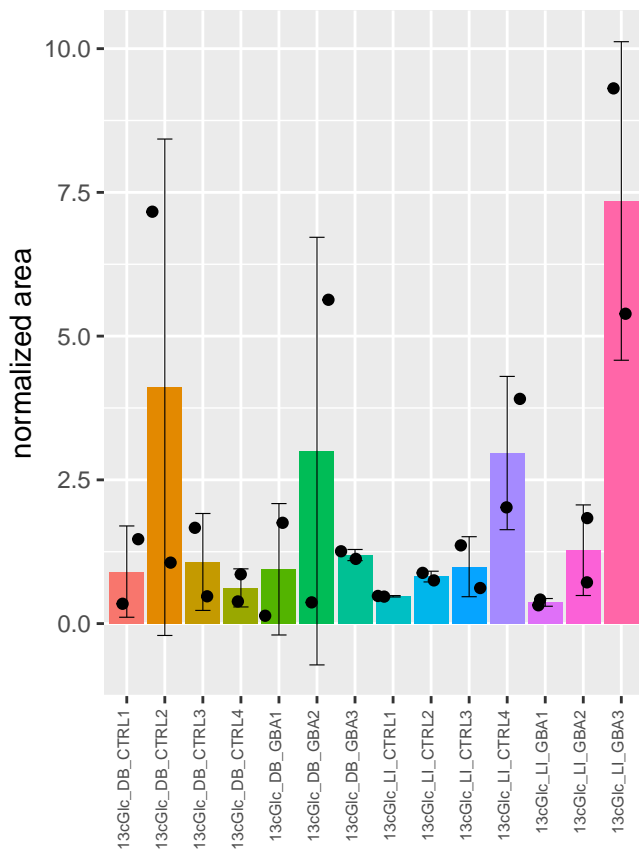
UMP



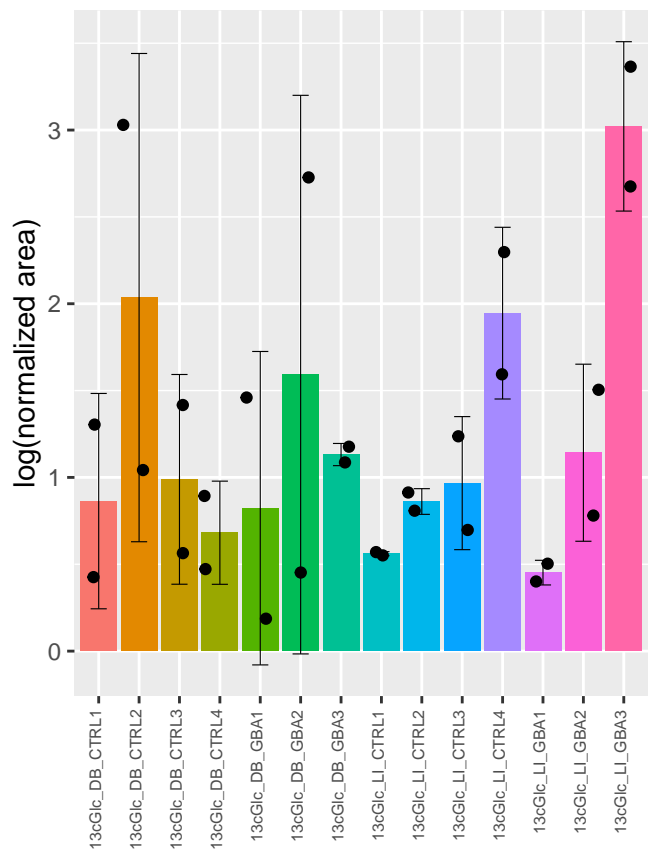
UMP



UMP

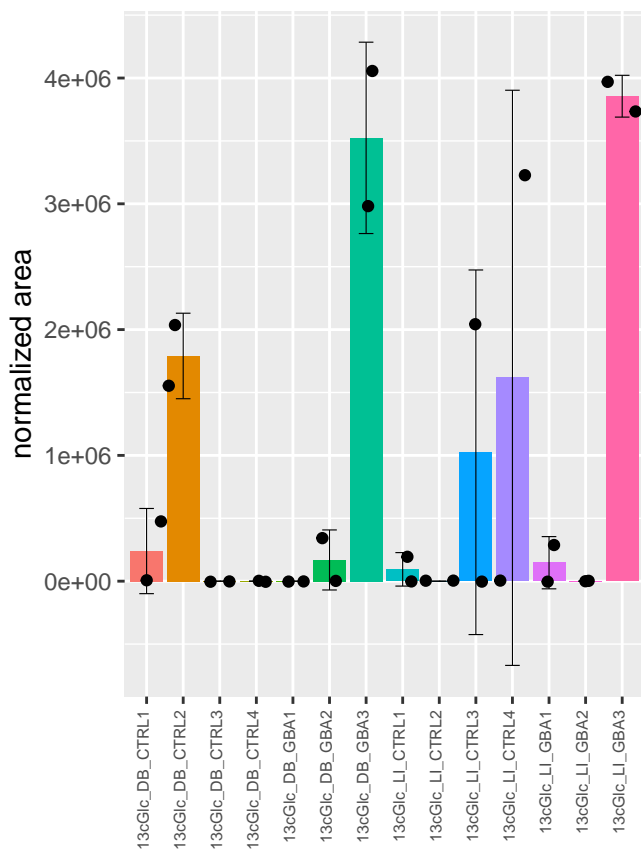


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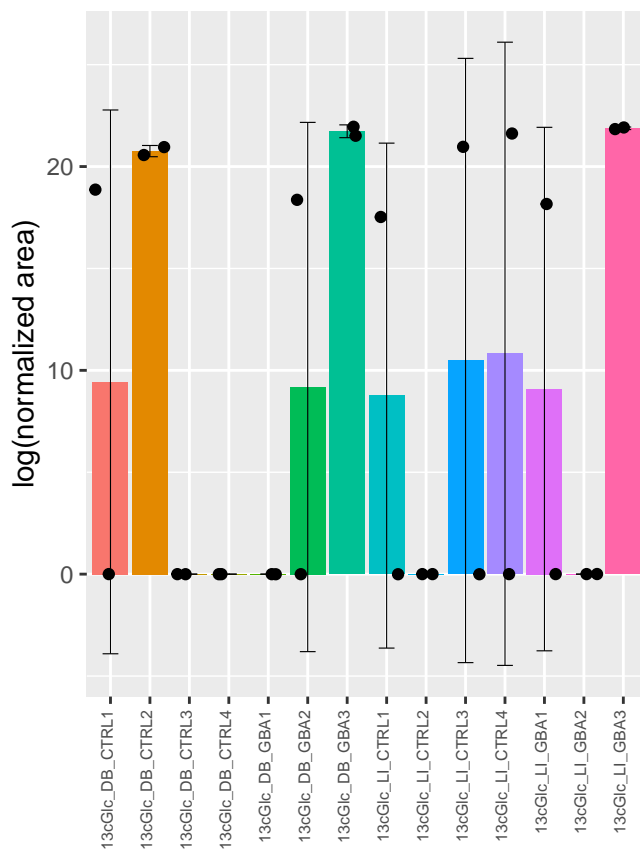


without PCV normalization

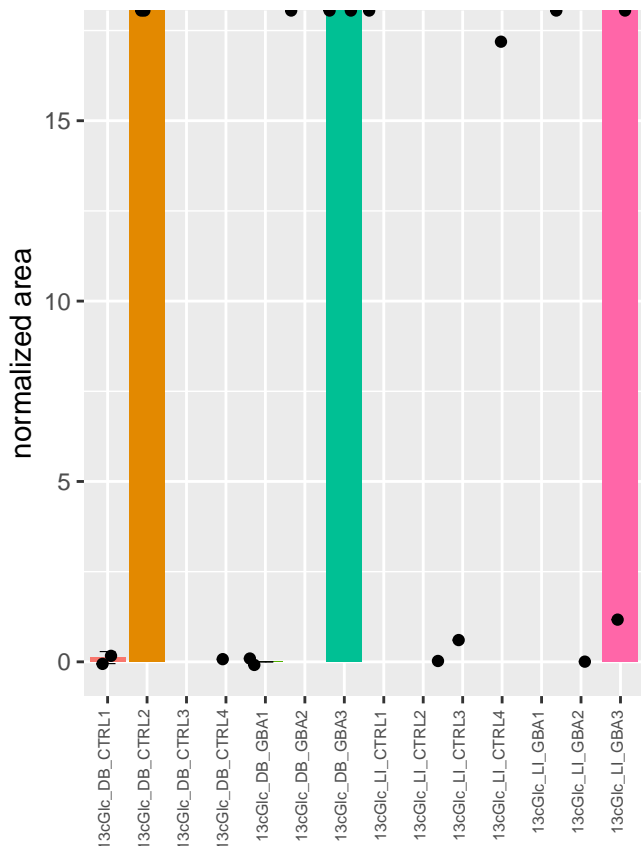
Uracil



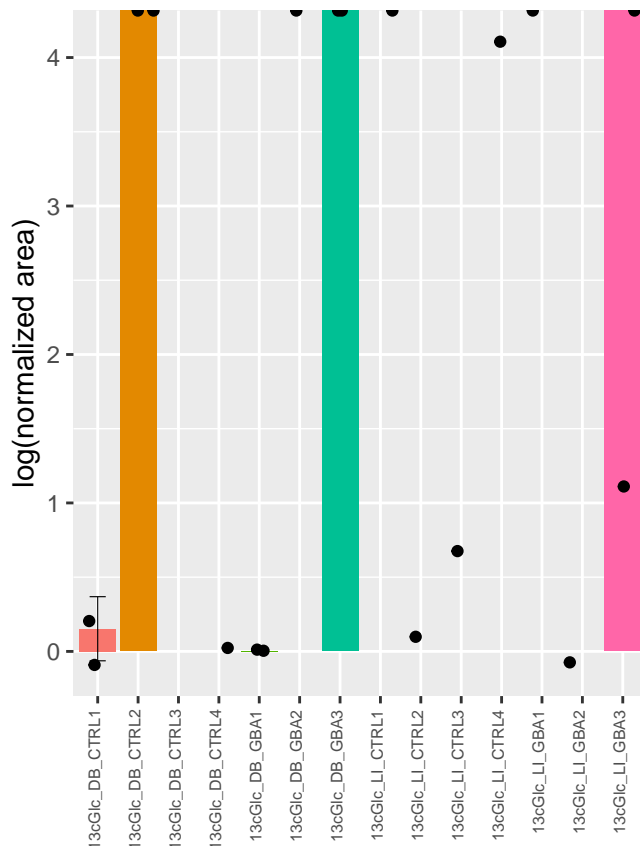
Uracil



Uracil

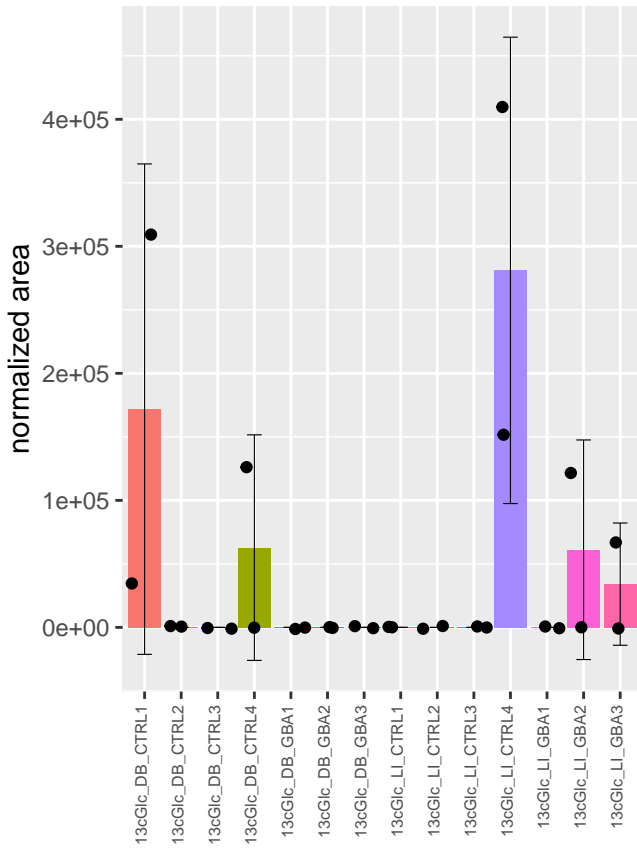


Uracil

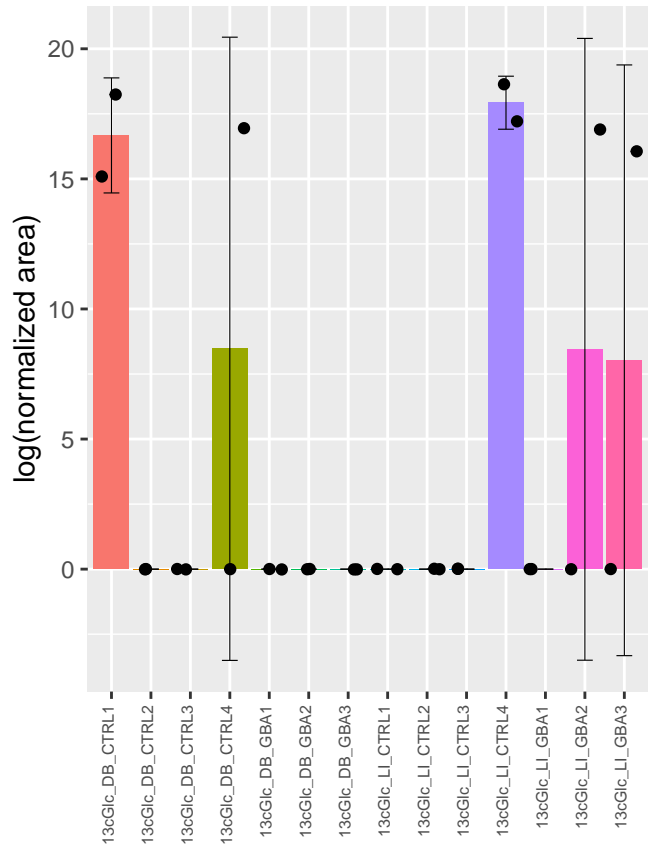


without PCV normalization

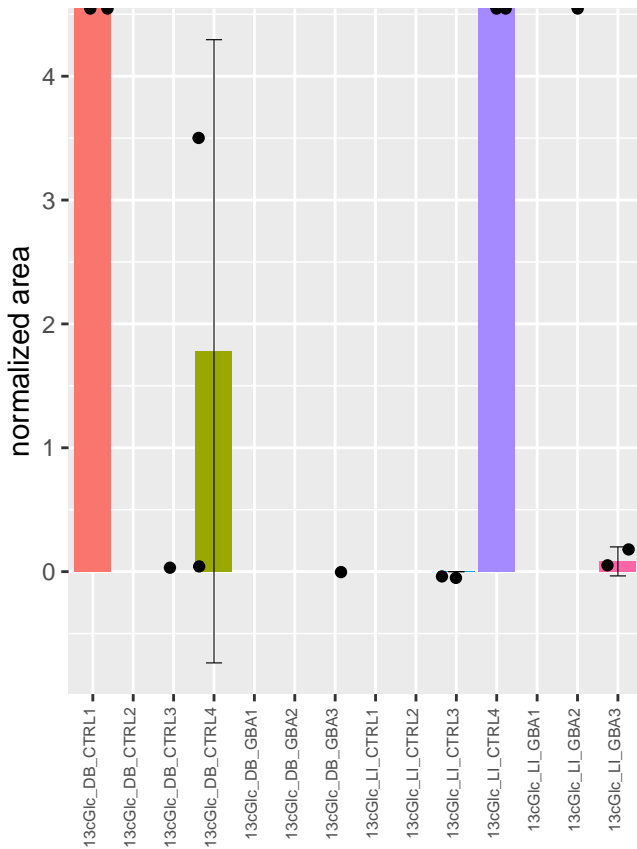
Uric acid



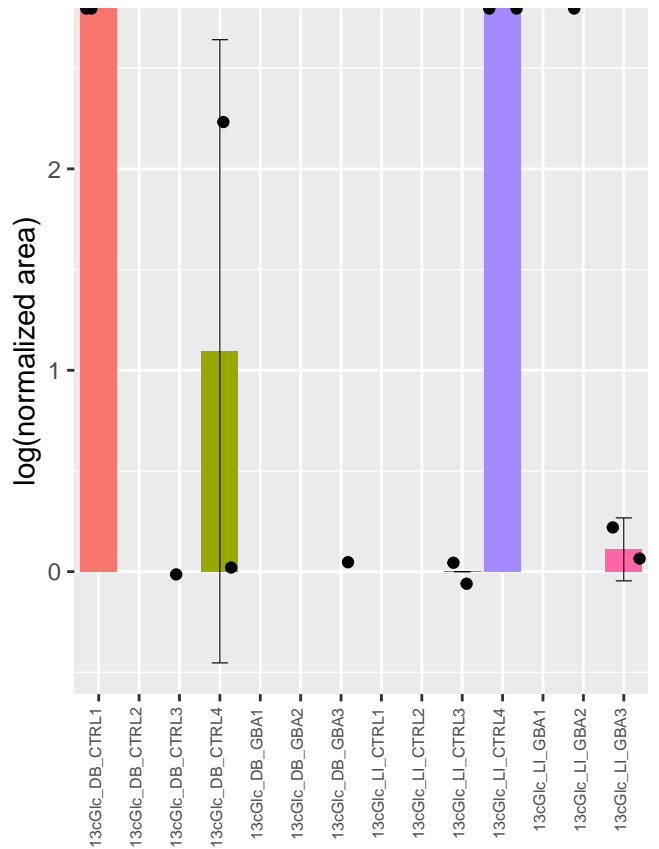
Uric acid



Uric acid

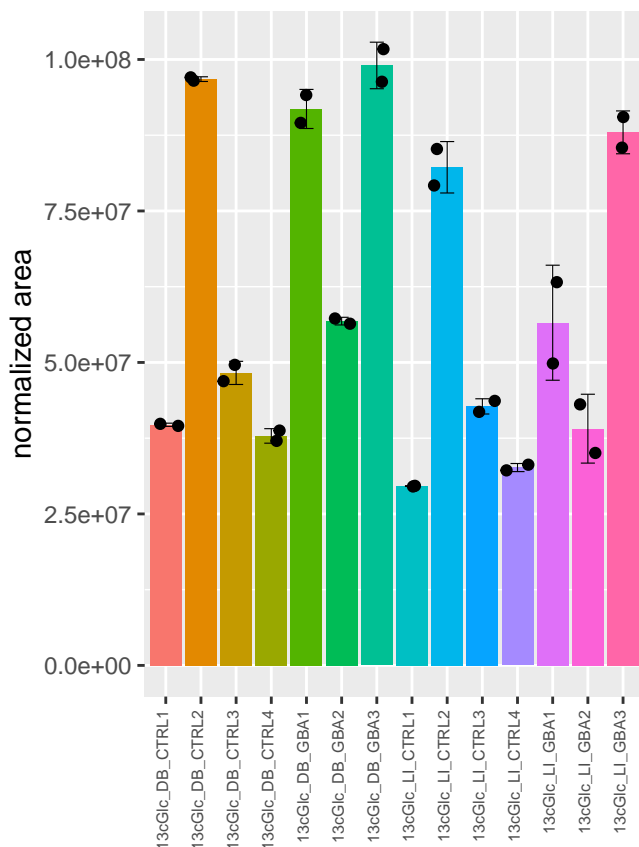


Uric acid

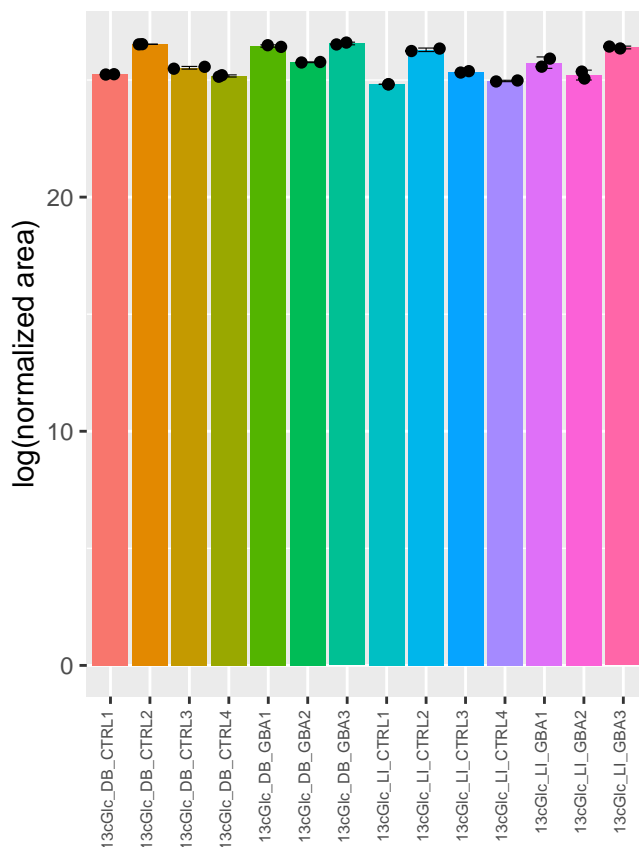


without PCV normalization

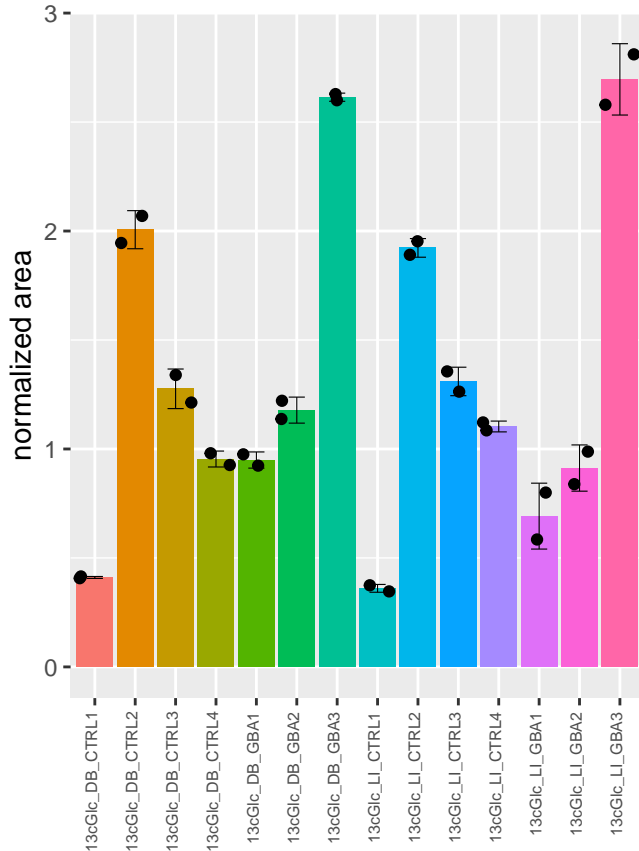
Uridine diphosphategalactose



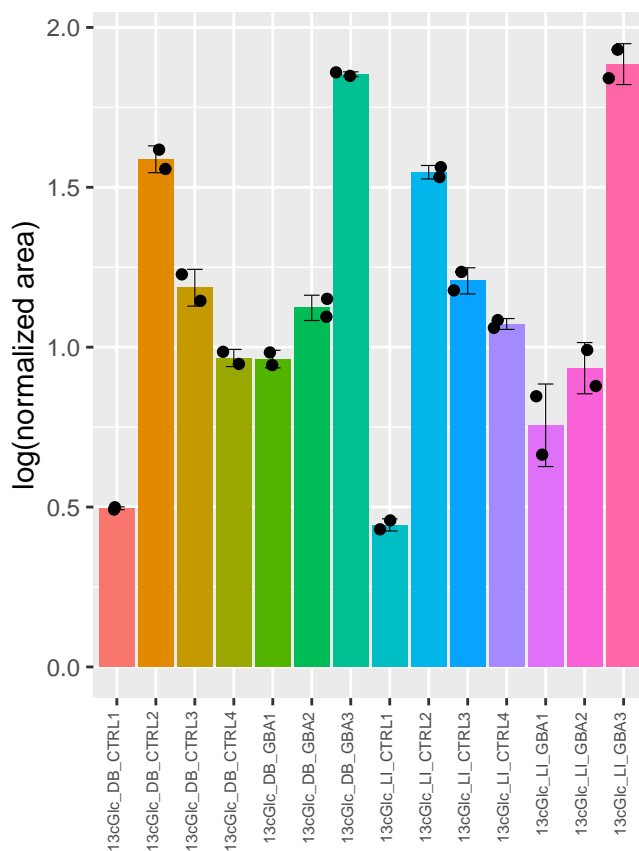
Uridine diphosphategalactose



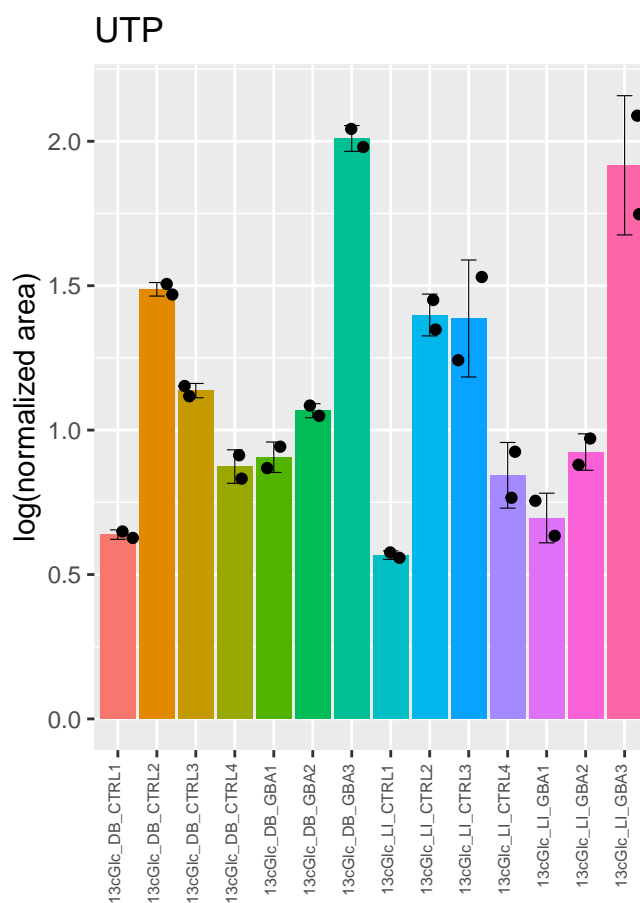
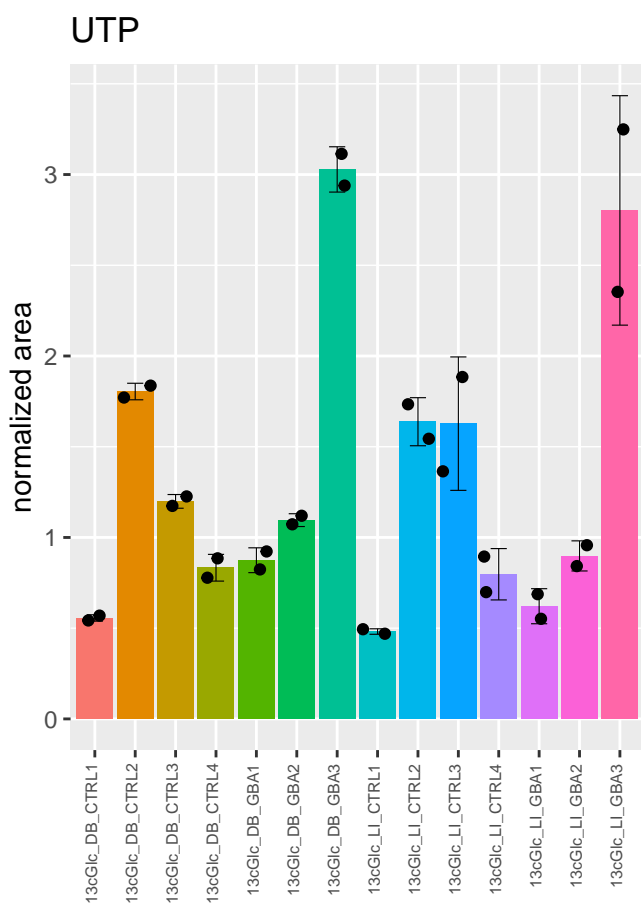
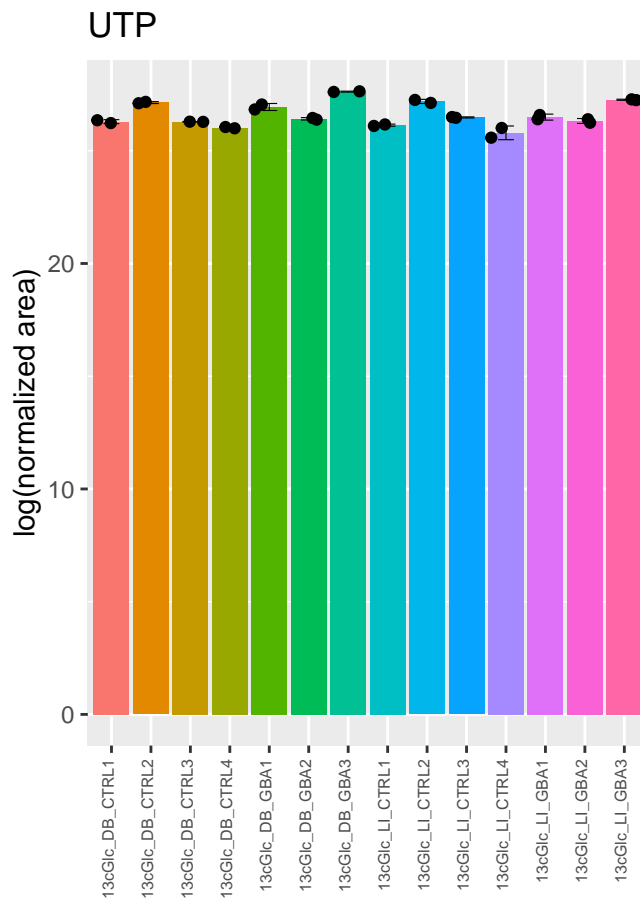
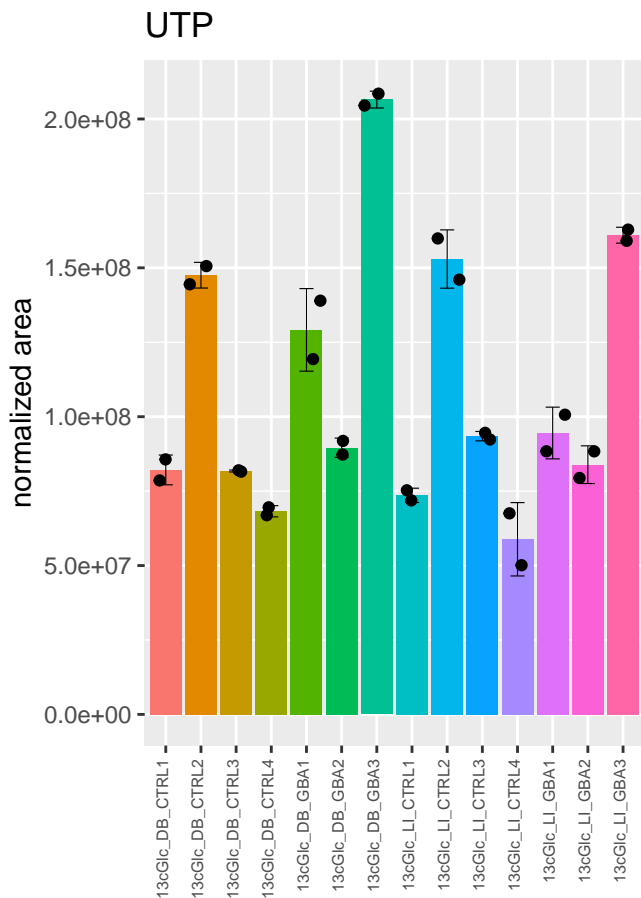
Uridine diphosphategalactose

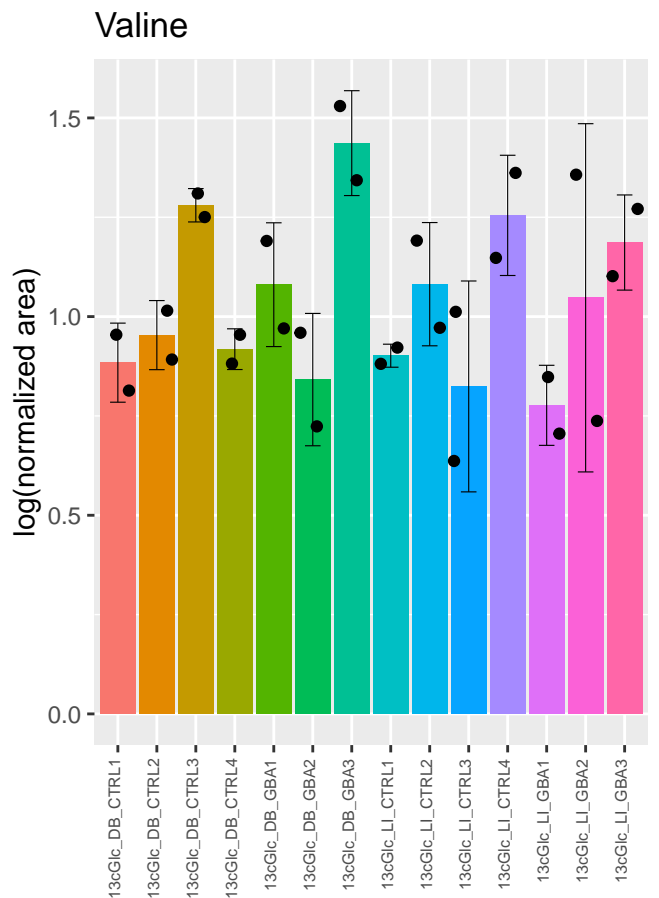
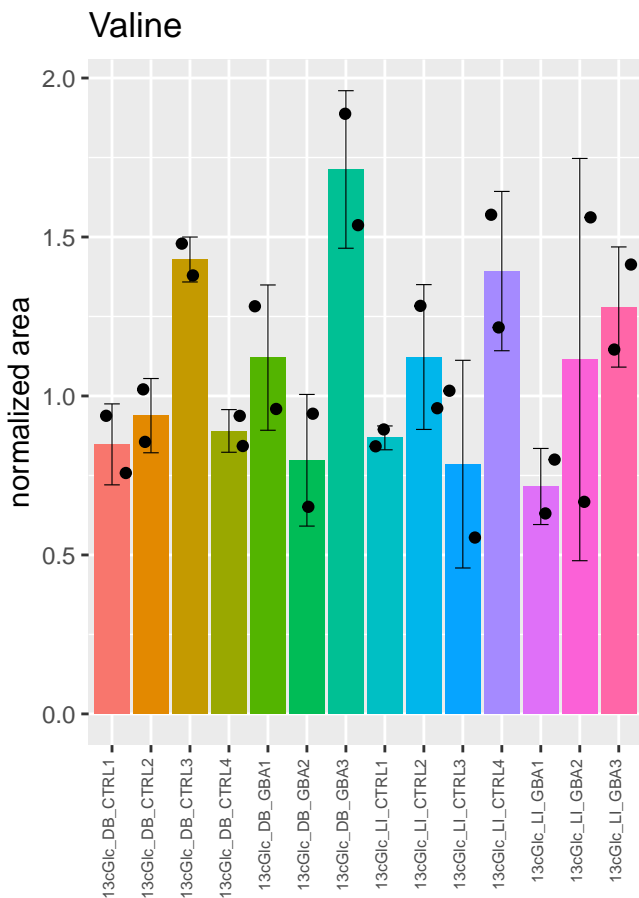
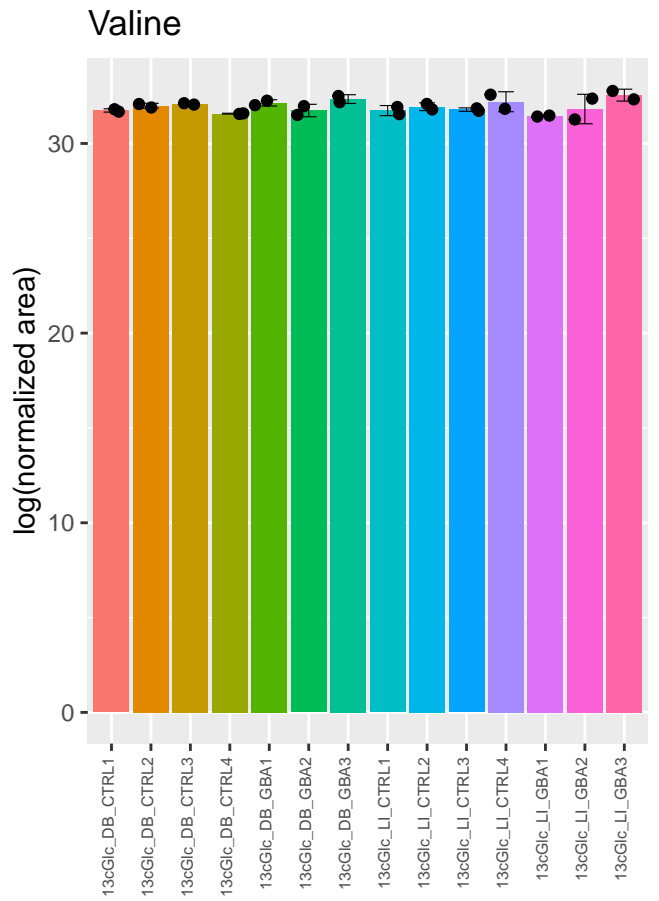
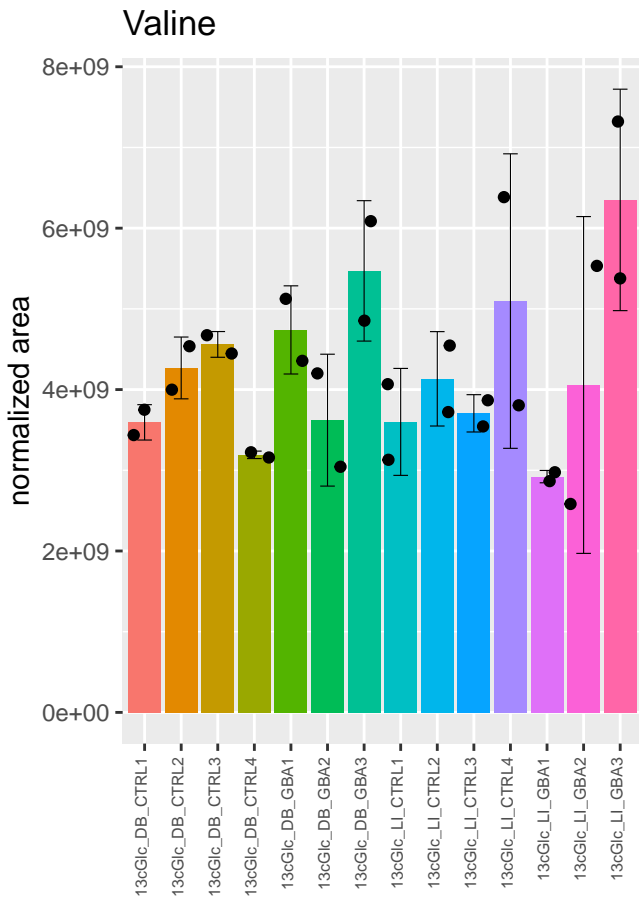


Uridine diphosphategalactose

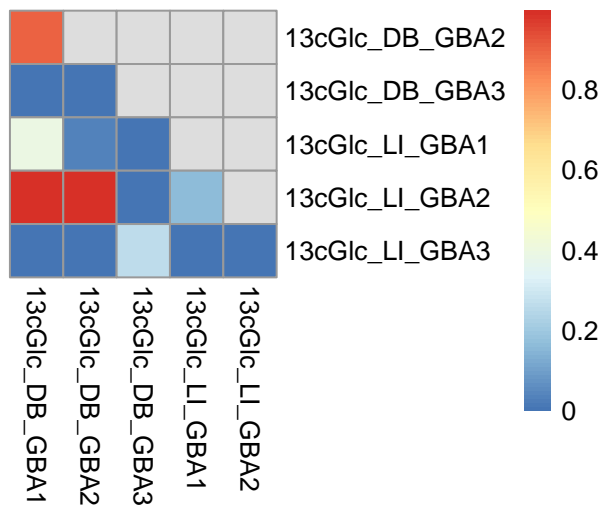


without PCV normalization





adj.p Hukey HSD



Log Area

0.90	0.89	1.16	0.79	0.72	0.22	3PG
0.99	1.26	1.11	0.77	0.87	1.24	Adenine
0.95	1.20	0.94	0.72	1.24	2.15	Adenosine
0.85	0.94	0.85	0.80	0.88	1.44	ADP
0.73	0.72	2.77	0.92	0.71	1.64	aKG
0.68	1.03	1.64	0.72	1.09	1.44	Alanine
1.20	1.14	0.75	0.73	1.02	2.04	AMP
1.13	0.87	1.45	0.82	1.29	0.87	Arginine
0.54	1.55	0.64	1.70	0.77	0.18	Asparagine
0.90	1.25	1.20	0.87	1.21	1.02	Aspartate
0.98	0.89	1.75	0.79	0.76	1.56	ATP
0.90	0.96	2.04	0.73	1.02	1.05	Choline
0.91	0.83	1.52	0.85	0.74	1.09	Citrate
0.90	0.89	2.48	0.63	0.70	2.06	CTP
0.76	0.88	1.56	0.69	0.71	0.61	Cystathionine
1.49	1.02	0.44	1.37	2.91	0.48	Cysteine
1.28	0.55	0.56	1.42	2.29	0.30	Cystine
1.14	1.50	2.25	0.81	1.44	2.46	Cytidine
0.87	0.92	1.69	0.79	0.74	1.48	Fructose 6-phosphate
1.02	1.08	1.69	0.86	0.88	1.38	Fumarate
1.06	0.73	1.78	0.99	0.72	1.54	G6P
0.84	0.90	1.74	0.80	0.72	1.46	Galactose 1-phosphate
1.06	1.16	2.10	0.42	0.96	2.68	Gamma-glutamylcysteine
0.94	0.79	1.15	0.64	0.64	1.46	GDP
0.62	0.82	2.33	0.68	0.84	1.80	GLN
0.97	0.81	1.41	0.85	0.72	1.25	GLU
1.14	0.82	1.24	1.02	1.25	0.54	Glucose
1.10	0.82	1.46	0.96	0.75	1.35	Glycine
0.98	1.04	1.40	0.67	0.86	3.08	GMP
0.87	0.93	1.92	0.88	0.77	1.56	GSH
1.26	1.03	2.03	0.42	0.99	2.01	GSSG
0.98	0.74	1.88	0.63	0.62	1.85	GTP
1.42	0.97	1.22	0.38	1.09	3.40	IMP
1.05	0.86	1.53	0.80	1.02	1.29	IsoLeucine
0.94	0.55	2.35	0.68	0.57	1.75	Lactate
1.05	1.11	1.47	0.64	1.01	1.32	Leucine
1.20	0.85	1.64	0.77	1.28	1.12	Lysine
1.01	1.13	1.67	0.89	0.92	1.39	Malate
1.03	0.84	1.57	0.80	0.95	1.19	Methionine
1.08	1.23	1.06	0.97	1.13	0.91	N-acetylaspartate
0.92	0.89	1.72	0.85	0.87	1.32	NAD
1.08	0.66	1.47	0.82	0.35	1.52	NADH
0.87	1.09	2.28	0.51	0.71	1.73	NADP
0.82	0.89	1.80	0.51	0.71	0.21	PEP
0.97	0.90	1.43	0.86	0.99	1.10	Phenylalanine
0.97	0.82	2.19	0.84	0.75	1.37	Proline
0.87	1.10	1.54	1.00	1.21	1.77	Pyruvate
0.78	1.19	2.05	0.73	1.16	2.50	Ribose phosphate
0.76	0.69	1.79	0.65	0.46	1.55	S7P
1.15	0.98	1.56	0.97	0.93	1.19	Serine
0.48	0.56	1.50	0.59	0.91	0.74	Succinic acid
1.11	0.99	1.24	0.95	1.02	1.06	threonine
0.62	1.07	2.13	1.23	1.40	1.96	Thymine
1.00	0.81	1.77	0.74	0.96	1.31	tryptophan
0.89	0.95	1.55	0.90	1.02	1.21	Tyrosine
0.83	1.18	1.16	0.63	1.20	1.35	UDP
0.82	1.59	1.13	0.45	1.14	3.02	UMP
0.96	1.12	1.85	0.76	0.93	1.89	Uridine diphosphategalactose
0.91	1.07	2.01	0.70	0.92	1.92	UTP
1.08	0.84	1.44	0.78	1.05	1.19	Valine
13cGlc_DB_GBA1	13cGlc_DB_GBA2	13cGlc_DB_GBA3	13cGlc_LI_GBA1	13cGlc_LI_GBA2	13cGlc_LI_GBA3	

3

2.5

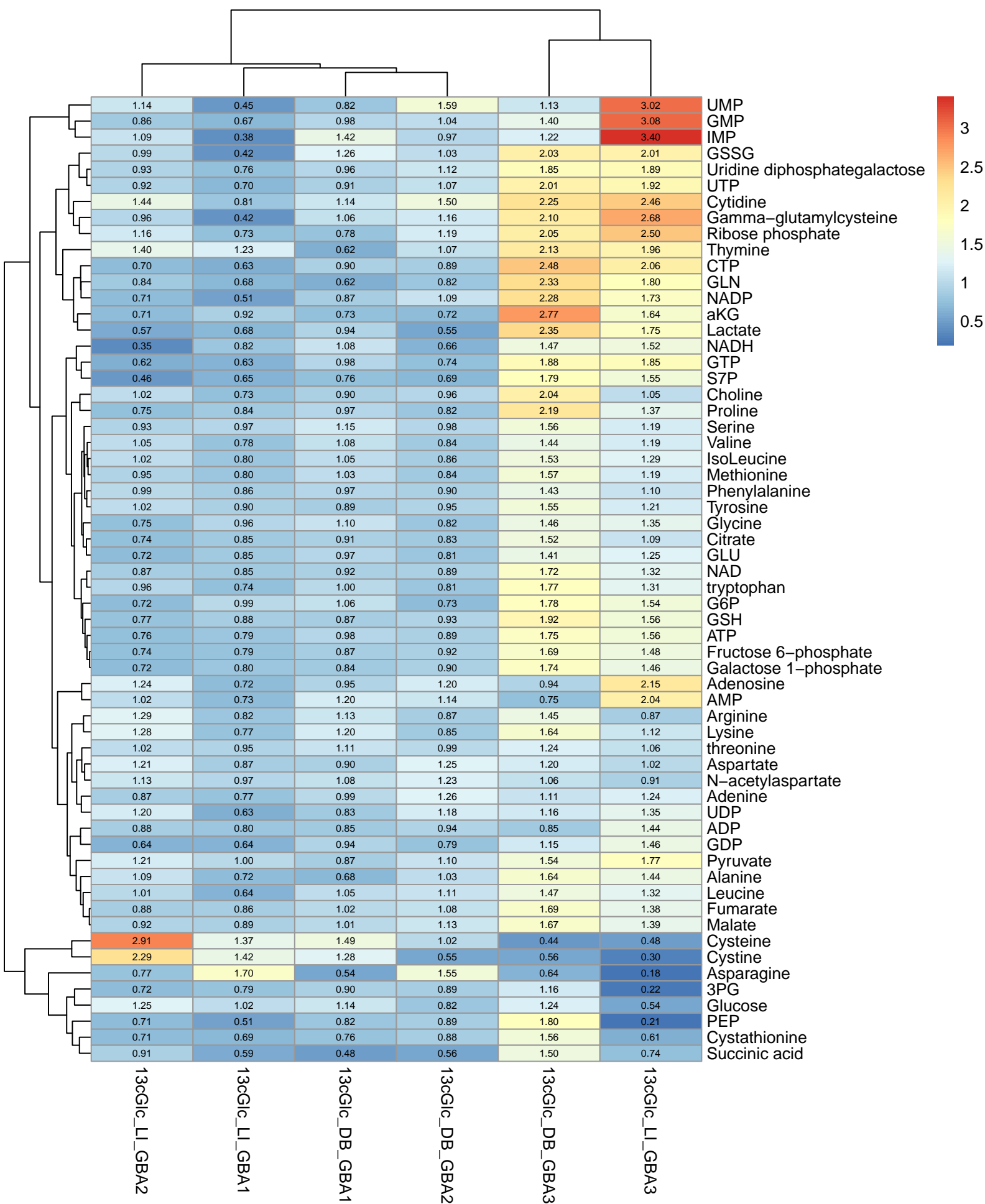
2

1.5

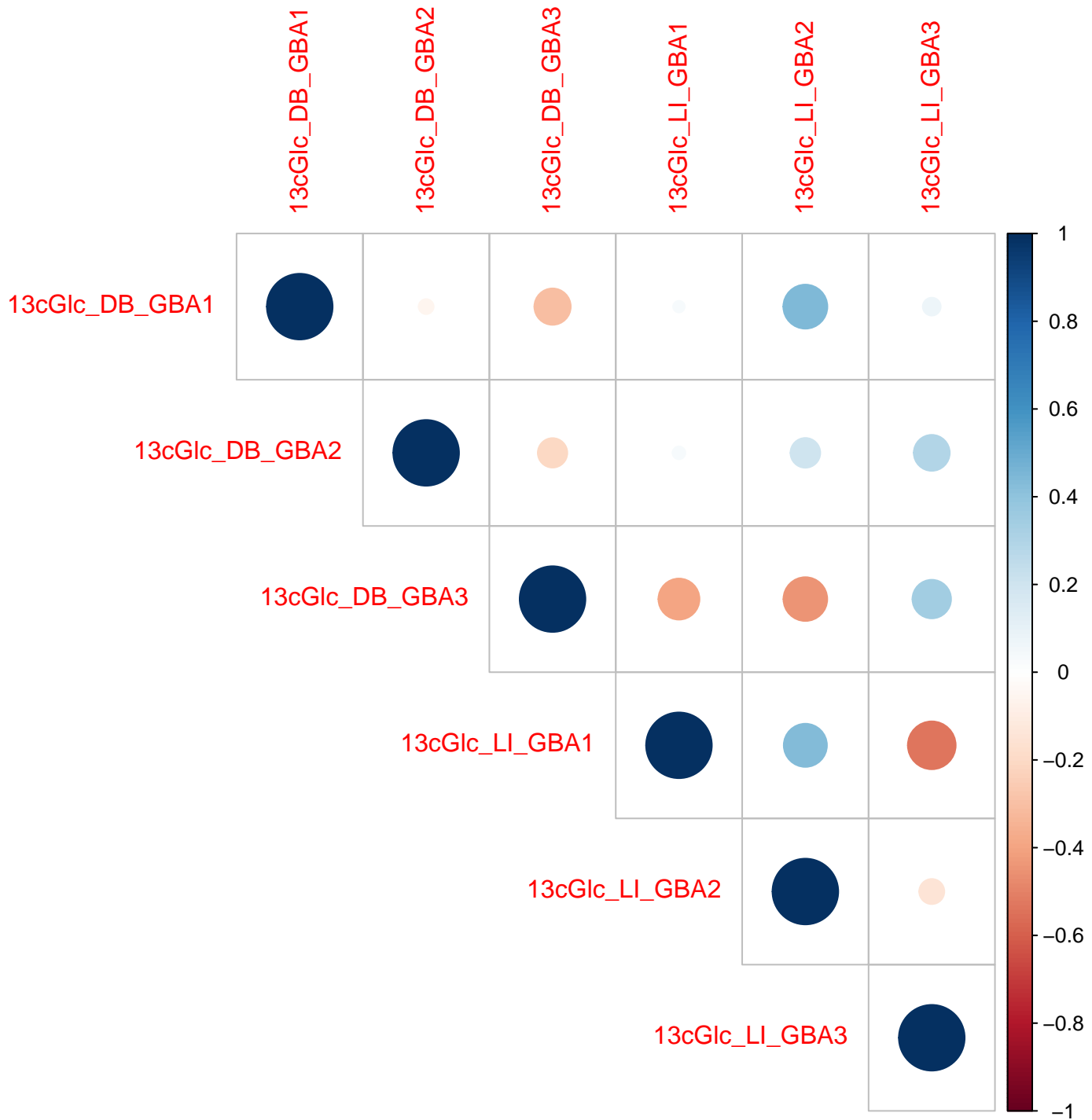
1

0.5

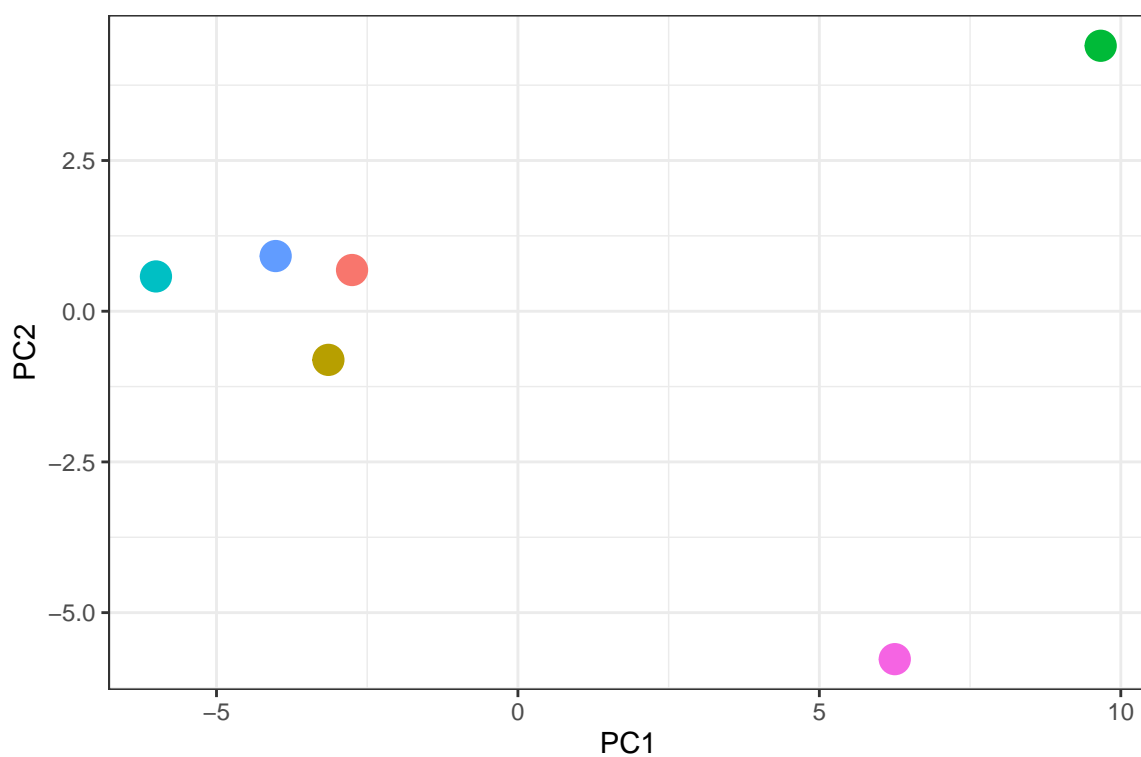
Log Area (Clustering samples)



Sample correlation plot



PCA – PC1 vs PC2



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

