

A

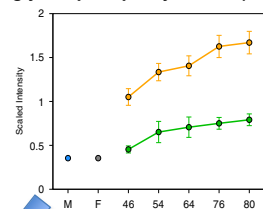
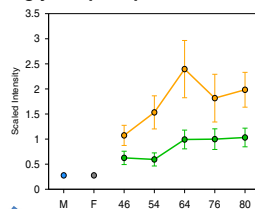
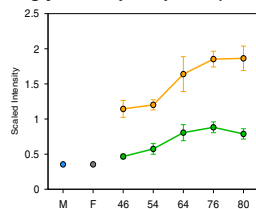
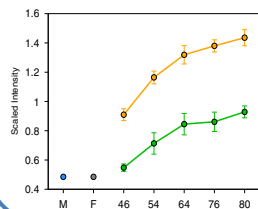
MEMBRANE PRECURSORS

choline

glycerol 3-phosphate (G3P)

glycerophosphoethanolamine

glycerophosphorylcholine(GPC)



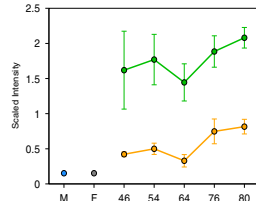
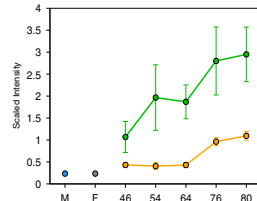
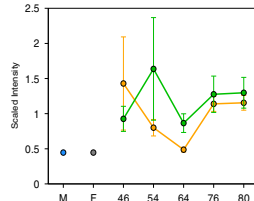
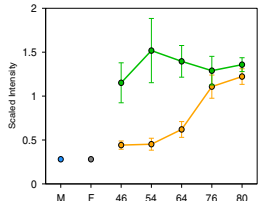
MEMBRANE LIPIDS

phytosphingosine

1-palmitoleyl-GPE

1-palmitoyl-GPC (16:0)

1-palmitoleyl-GPC (16:1)



B

Sub Pathway	Biochemical Name	10L 54hrs	10L 64hrs	10L 76hrs	10L 80hrs	10000L 54hrs	10000L 64hrs	10000L 76hrs	10000L 80hrs
		10L 46hrs	10L 46hrs	10L 46hrs	10L 46hrs	10000L 46hrs	10000L 46hrs	10000L 46hrs	10000L 46hrs
Glycerolipid metabolism	ethanolamine	1.08	1.03	1.34	1.32	1.22	1.35	1.66	1.81
	glycerophosphoethanolamine	0.95	1.59	1.6	1.65	1.43	2.23	1.69	1.85
	glycerol	0.82	1.12	0.86	0.76	0.86	0.81	0.65	0.61
	choline	1.3	1.54	1.57	1.7	1.28	1.45	1.52	1.58
	glycerol 3-phosphate (G3P)	1.23	1.73	1.89	1.69	1.05	1.43	1.62	1.63
	glycerophosphorylcholine (GPC)	1.44	1.56	1.65	1.74	1.27	1.34	1.55	1.59
Sphingolipid	phytosphingosine	1.32	1.21	1.12	1.18	1.02	1.4	2.51	2.77
	1-palmitoleyl-GPE*	1.77	0.93	1.38	1.4	0.56	0.34	0.8	0.81
Lysolipid	1-palmitoyl-GPC	1.84	1.75	2.62	2.76	0.94	1	2.23	2.54
	1-palmitoleyl-GPC*	1.09	0.89	1.16	1.29	1.18	0.78	1.77	1.93
	1-palmitoyl-GPI*	1.89	1.61	2.84	2.72	1.59	2.59	4.25	4.85
	1-palmitoleyl-GPI*	2.07	1.85	2.88	2.39	1.79	2.1	4.28	5.25
	2-palmitoleyl-GPI*	1.24	1.13	1.85	2.13	1.08	1.21	2.61	2.95
	1-stearoyl-GPI	1.9	2.5	4.24	3.98	1.89	3.54	5.22	5.83
	2-stearoyl-GPI*	1.25	1.64	2.98	2.45	1.21	2.13	3.19	3.46
	1-oleoyl-GPI*	1.55	1.35	2.39	1.85	1.65	2.04	4.66	5.6
	2-oleoyl-GPI*	1.56	1.15	1.77	1.93	0.94	1.24	2.9	3.28