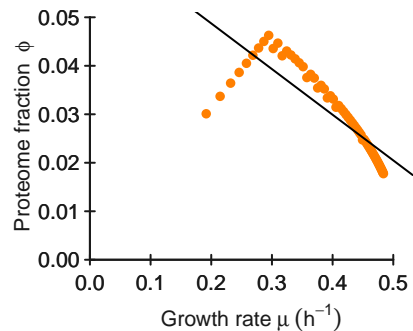
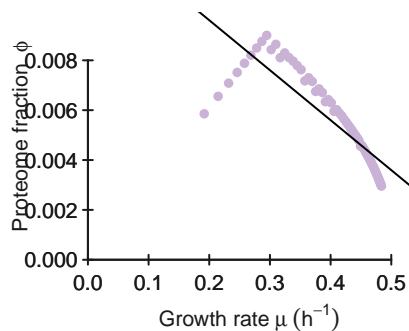
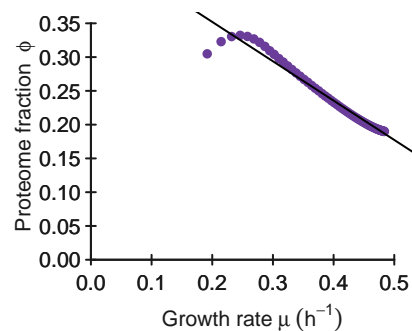
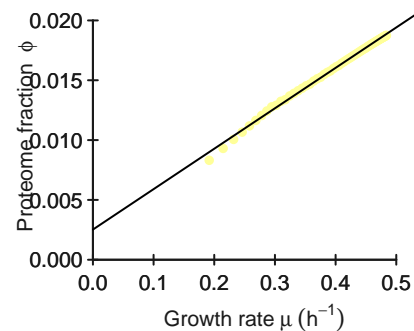
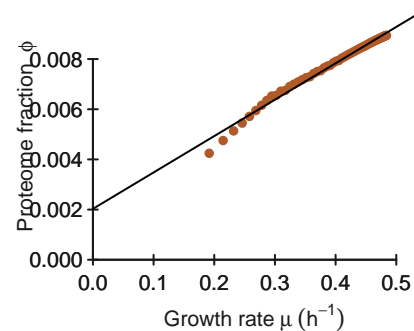
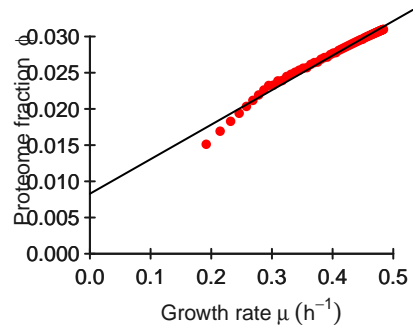
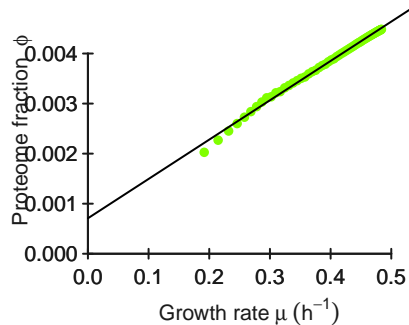
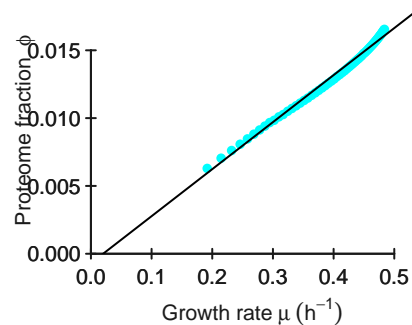
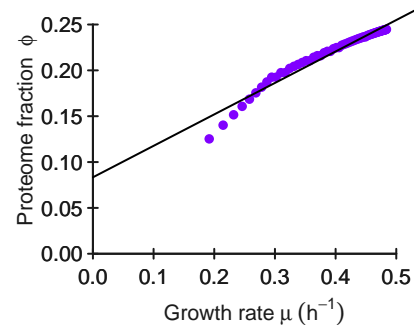
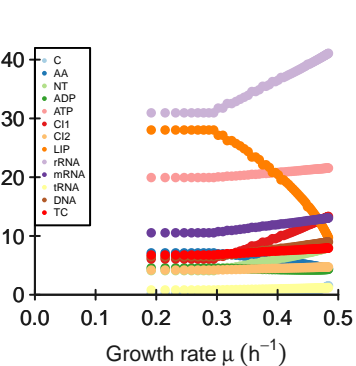
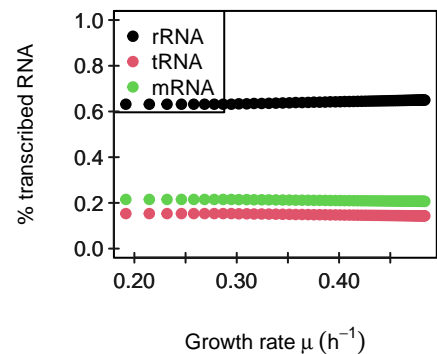
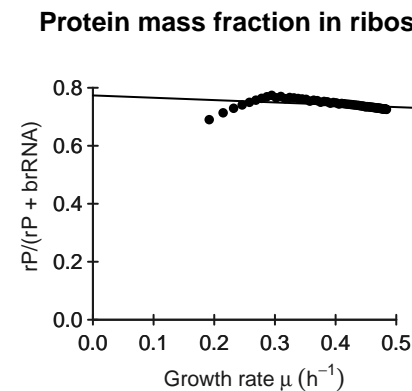
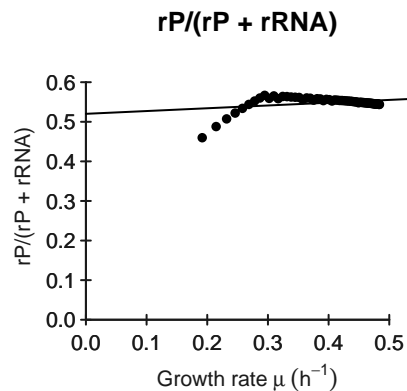
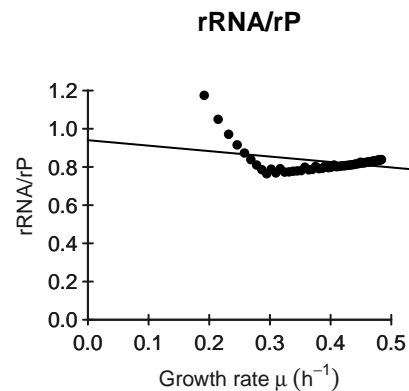
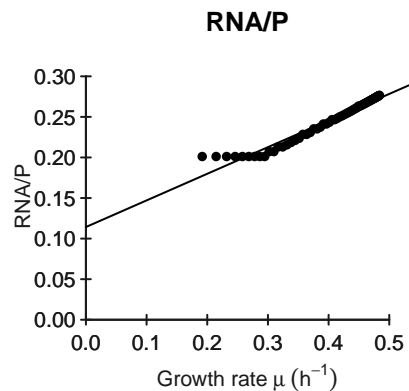
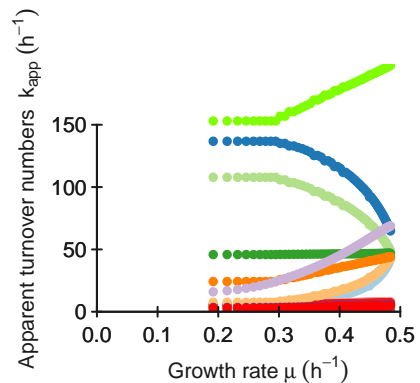
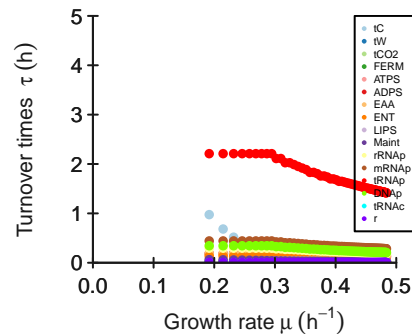
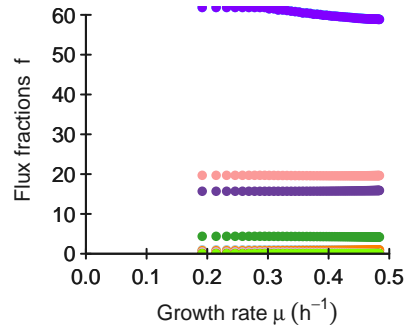
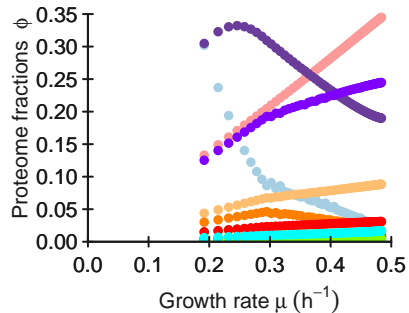
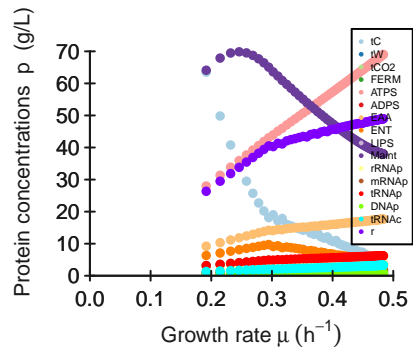
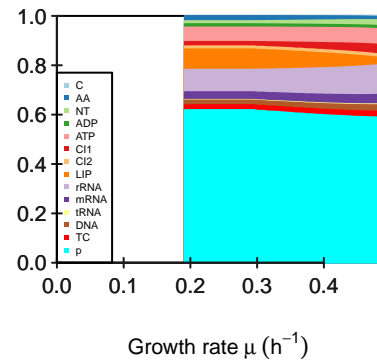


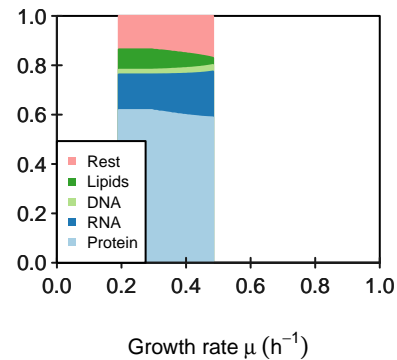
**ENT****LIPS****Maint****rRNAp****mRNAp****tRNAp****DNAp****tRNAc****r****Metabolite concentrations  $c^m$  (g/L)**



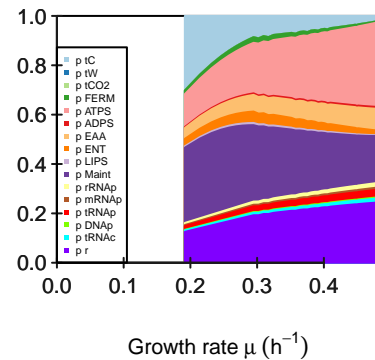
Relative biomass composition



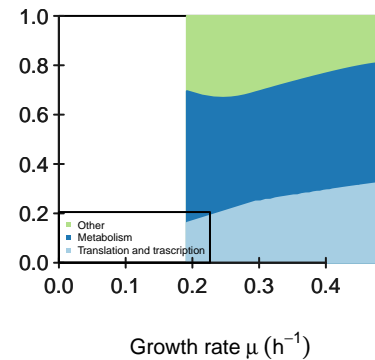
Predicted biomass



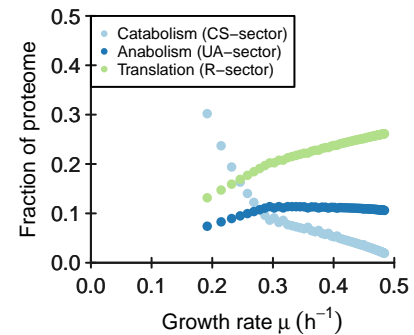
Proteome composition



Proteome sectors



Proteome sectors



**M**

[illegible]

**K**

[illegible]

**KA**[illegible]

**kcat**

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]	[,14]	[,15]	[,16]
<b>kcatf</b>	800	500	500	2500	50	14	12	220	73	81	15	10	2	16	15000	800
<b>kcatb</b>	80	50	50	250	5	1	1	22	7	0	0	0	0	0	0	0



# Keq

[1,]	[,1] 100	[,2] 30	[,3] 15	[,4] 500	[,5] 6250	[,6] 14	[,7] 15	6.666666666666667	[,8]	17.3809523809524	[,9]	[,10] Inf	[,11] Inf	[,12] Inf	[,13] Inf	[,14] Inf	[,15] Inf	[,16] Inf
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### minimal phi constraint

[1,]	[.1] 0	[.2] 0	[.3] 0	[.4] 0	[.5] 0	[.6] 0	[.7] 0	[.8] 0	[.9] 0	[.10] 0	[.11] 0	[.12] 0	[.13] 0	[.14] 0	[.15] 0	[.16] 0
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## minimal f constraint

[1,]	[,1] 0	[,2] 0	[,3] 0	[,4] 0	[,5] 0	[,6] 0	[,7] 0	[,8] 0	[,9] 0	[,10] 8	[,11] 0	[,12] 0	[,13] 0	[,14] 0	[,15] 0	[,16] 0
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