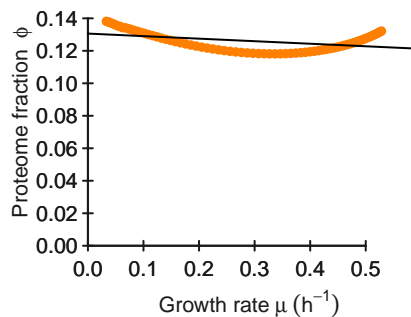
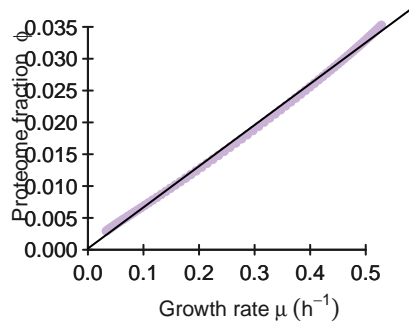
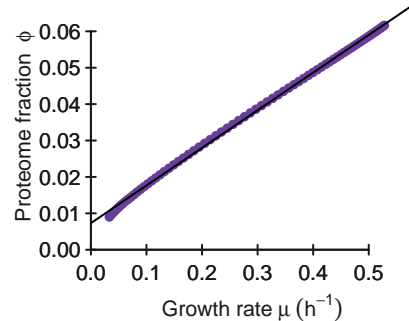
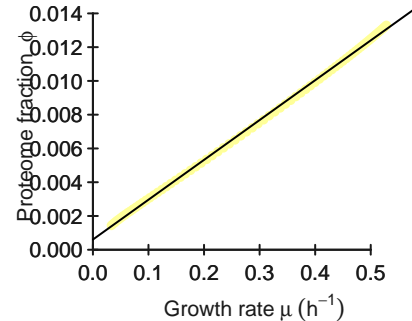
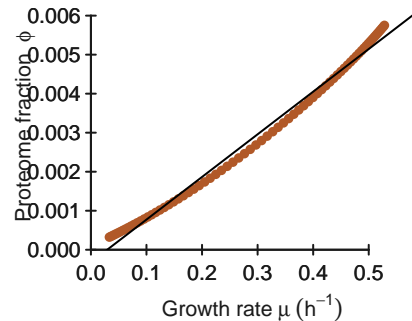
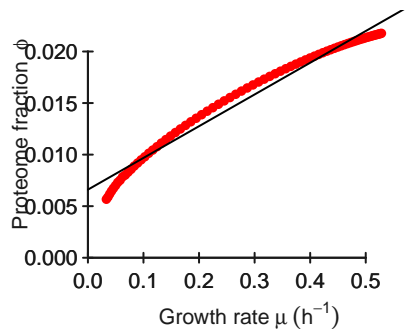
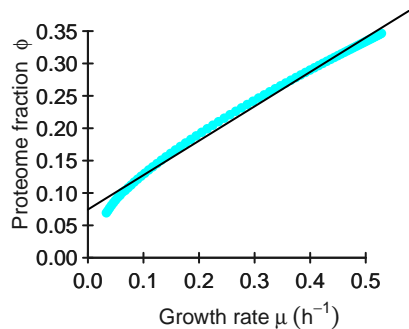
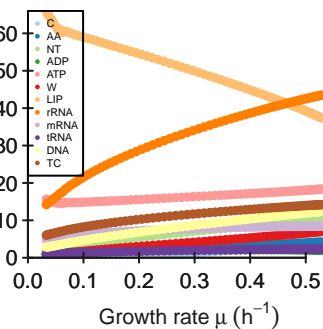
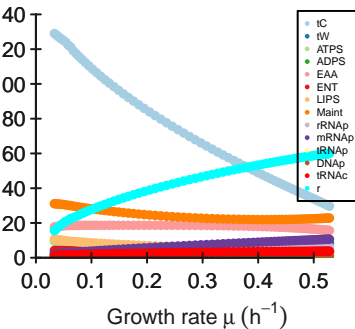
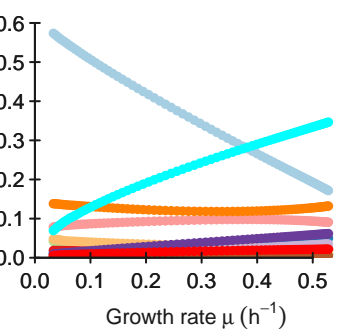
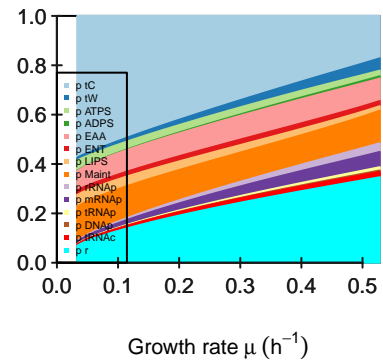


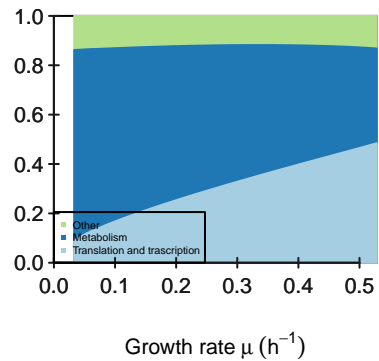
**Maint****rRNAp****mRNAp****tRNAp****DNAp****tRNAc****r****Metabolite concentrations  $c^m$  (g/L)****Protein concentrations  $p$  (g/L)****Proteome fractions  $\phi$** 



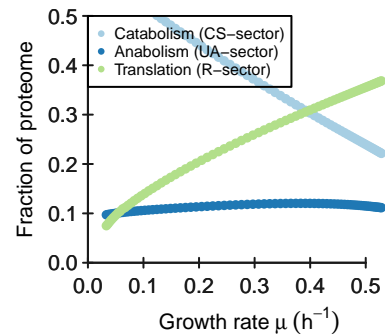
Proteome composition



Proteome sectors



### Proteome sectors



**M**

[illegible]

**K**

[illegible]

**KA**[illegible]

# kcat

	tC	tW	ATPS	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	DNAP	tRNAc	r
kcatf	26	23	1775	12	11	152	58	75	9	1	9	15	10310	626
kcatb	3	2	178	1	1	15	6	0	0	0	0	0	0	0



# Keq

[1,]	346.6666666666667	8.625	418.820224719101	6	66	10.133333333333333	112.7777777777778	Inf	Inf	Inf	Inf	Inf	Inf	Inf
	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]	[,14]

## phi input

[1,]	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]	[,14]
	0.089	0.021	0.027	0.005	0.165	0.023	0.031	0.259	0.0426	0.0213	0.0071	0.002	0.023	0.284

**average saturation input**

3

### 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
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## minimal f constraint

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