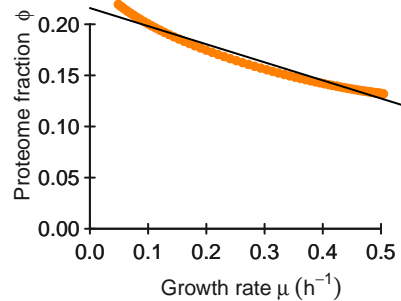
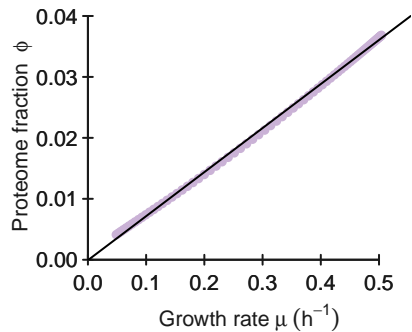
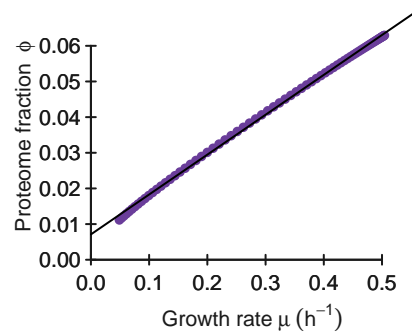
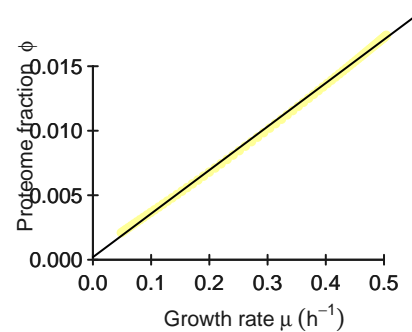
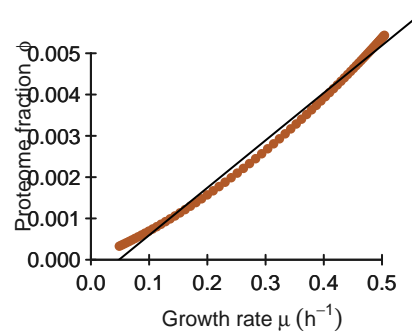
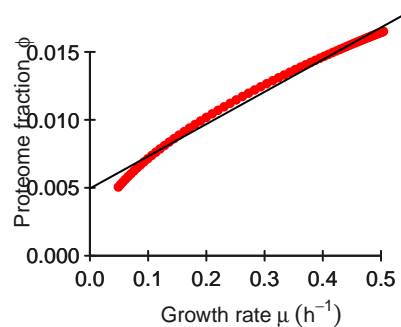
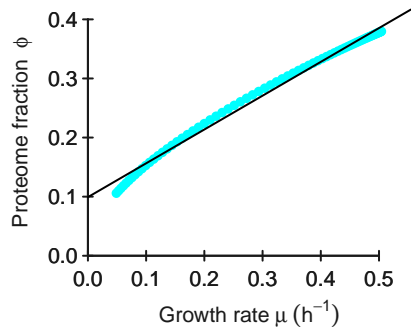
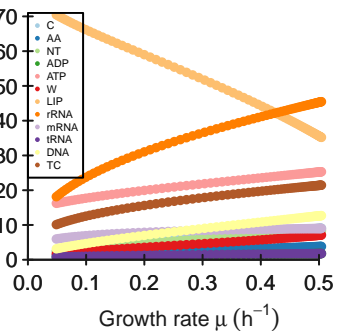
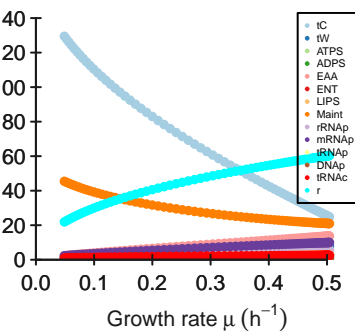
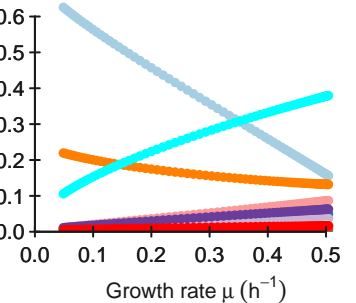
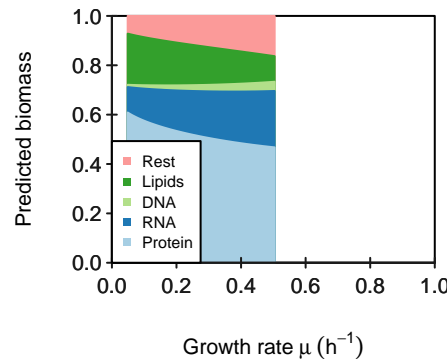
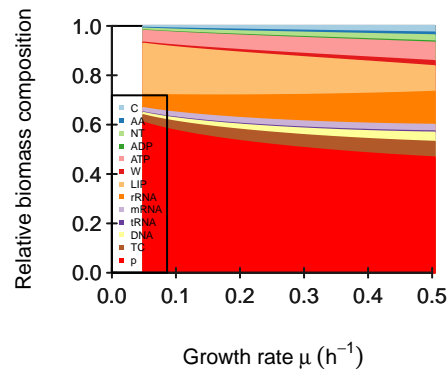
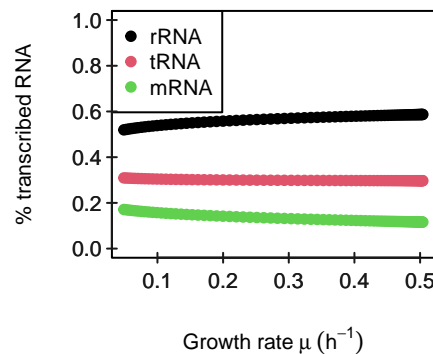
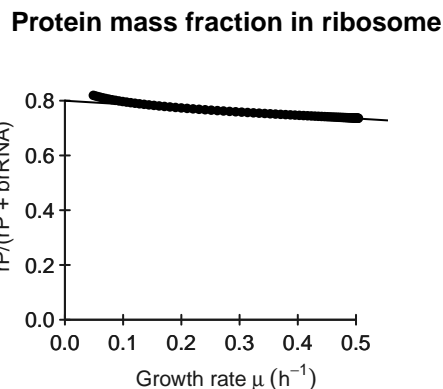
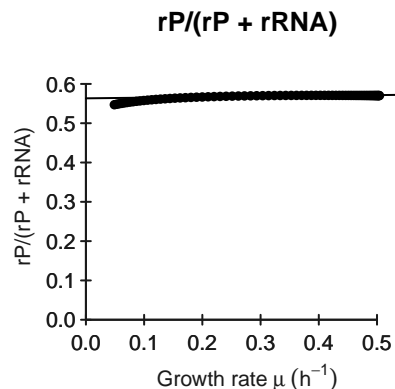
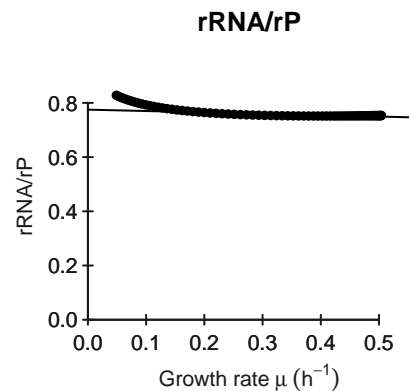
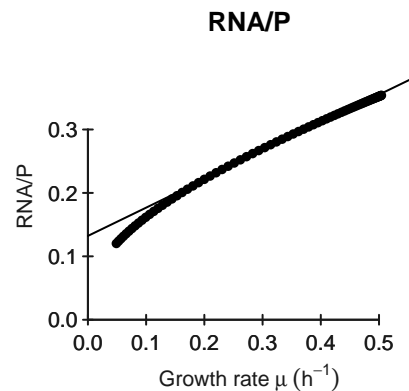
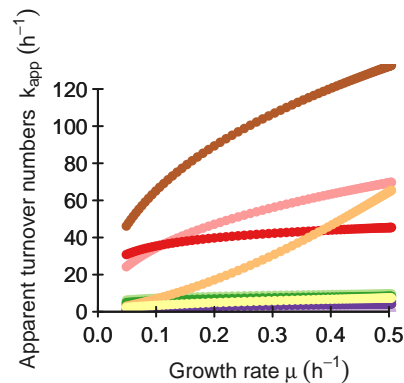
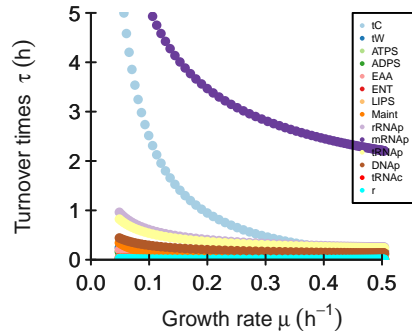
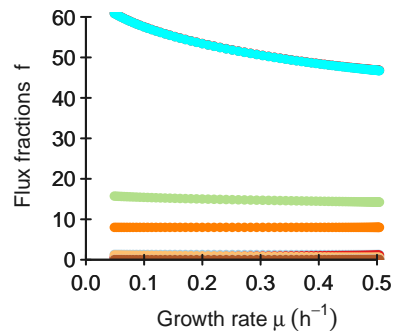
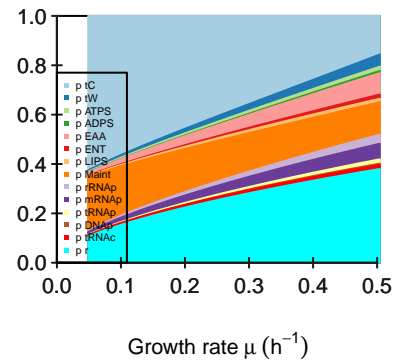


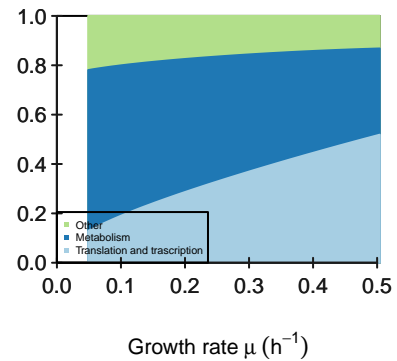
**Maint****rRNAp****mRNAp****tRNAp****DNAp****tRNAc****r**Metabolite concentrations  $c^m$  (g/L)Protein concentrations  $p$  (g/L)Proteome fractions  $\phi$ 



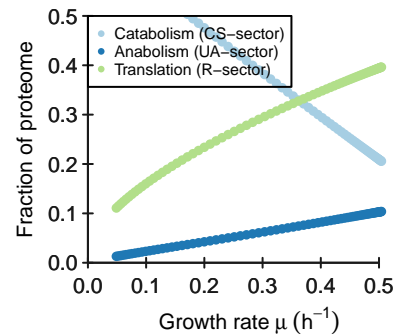
Proteome composition



Proteome sectors



Proteome sectors



## M

[illegible]

**K**

[illegible]

**KA**[illegible]

**kcat**[illegible]



Keq

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

## 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,]

$$\begin{bmatrix} 1 \\ 0 \end{bmatrix}$$
$$[2]_0$$
$$[3]_0$$
$$[4]_0$$
$$[5]_0$$
$$[6]_0$$
$$[7]_0$$
$$[8]_0$$

[,9]  
0

[,10

[1]

[

## 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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