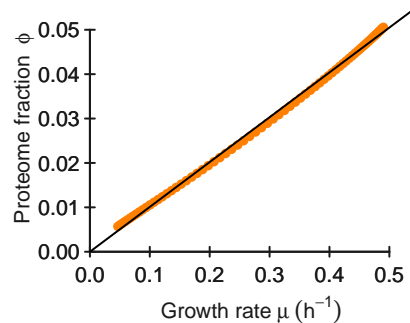
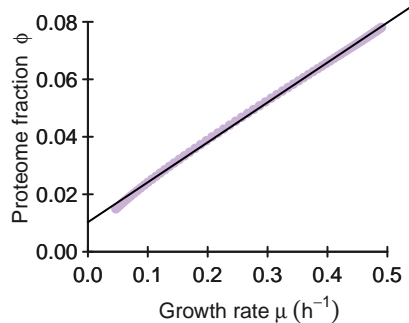
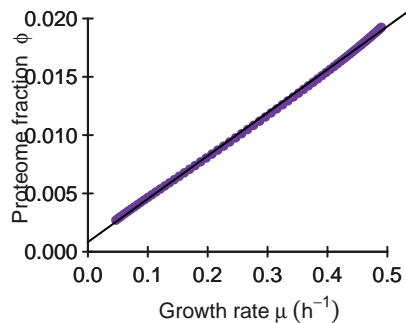
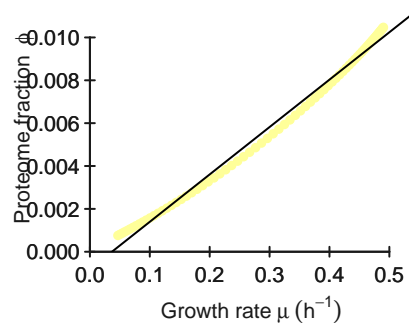
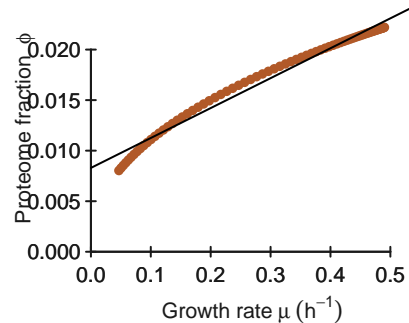
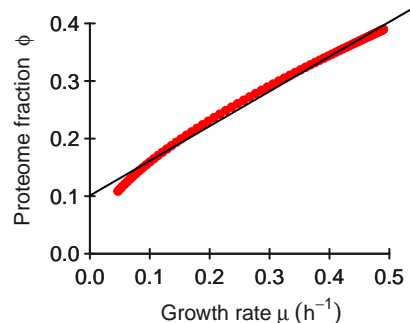
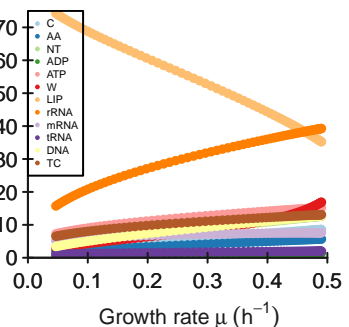
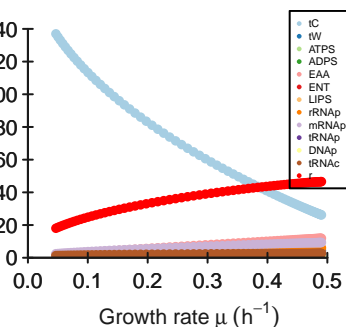
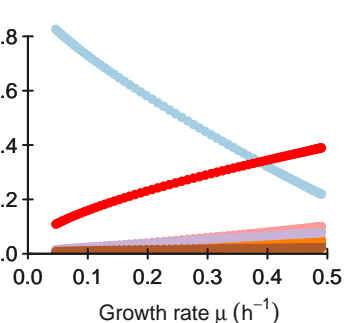
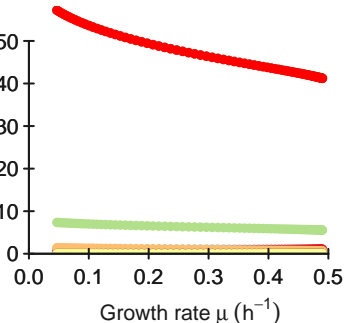
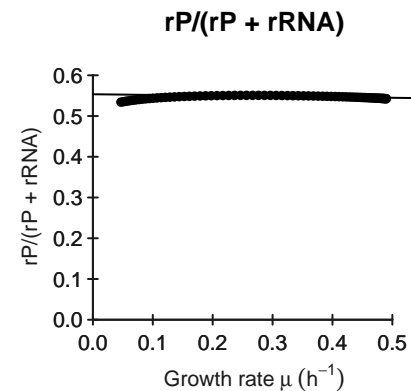
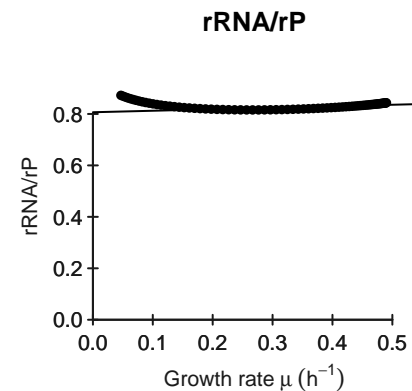
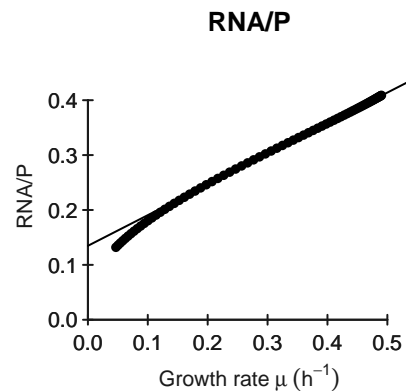
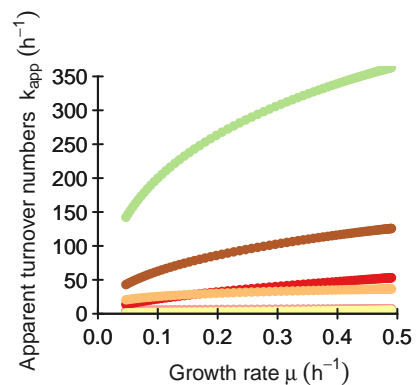
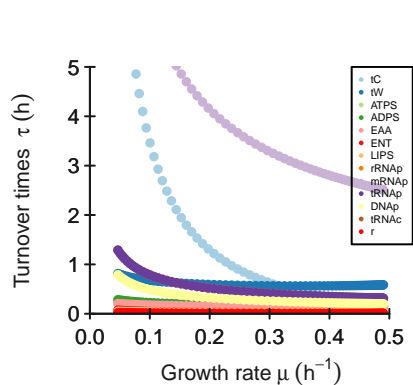
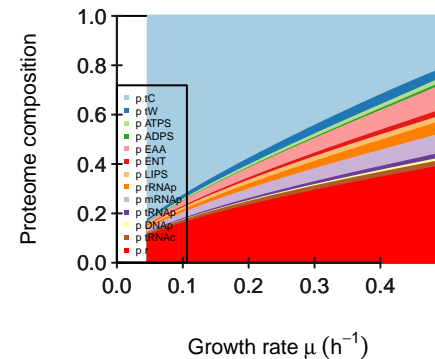
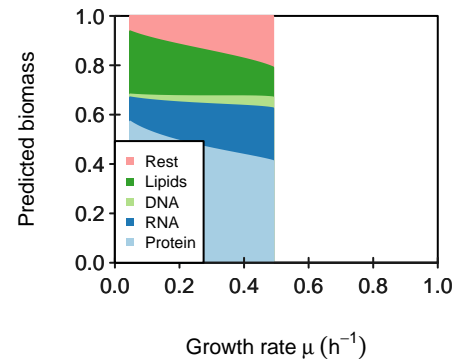
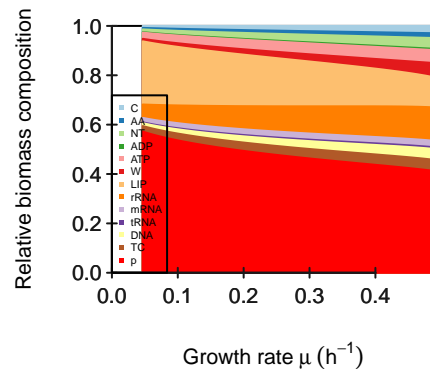
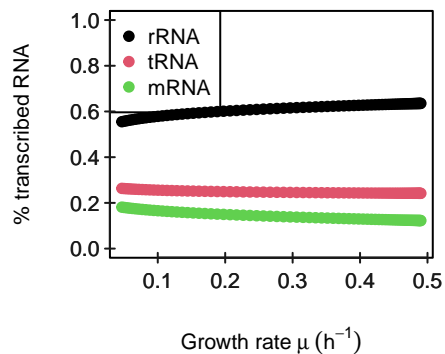
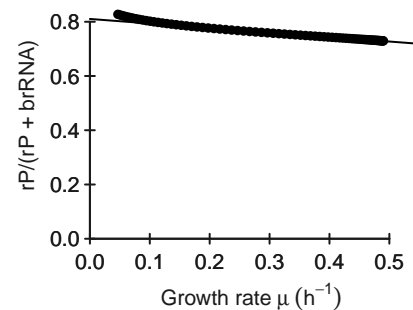


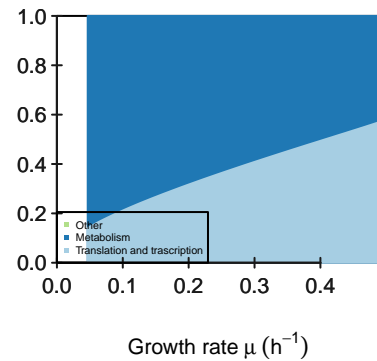
rRNAp**mRNAp****tRNAp****DNAp****tRNAc****r**Metabolite concentrations c^m (g/L)Protein concentrations p (g/L)Proteome fractions ϕ Flux fractions f 



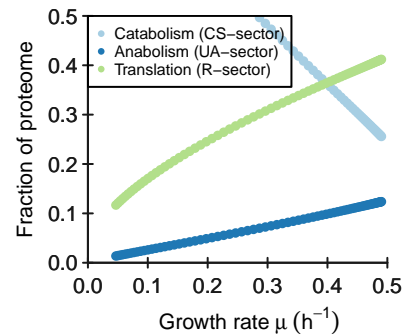
Protein mass fraction in ribosome



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
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phi input

0.0364372469635628	0.0067476383265857	0.222672064777328	0.0310391363022942	0.0418353576248313	0.0574898785425101	0.0287449392712551	0.00958164642375169	0.002699055
[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	

average saturation input

2

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

minimal f constraint

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