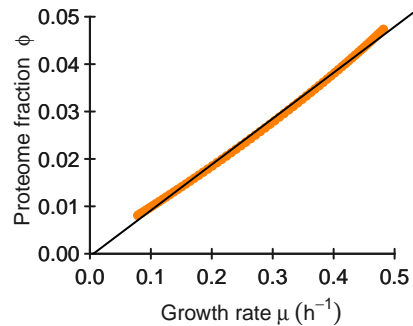
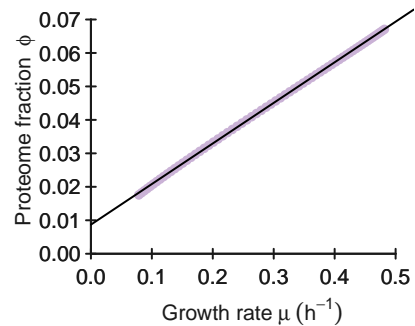


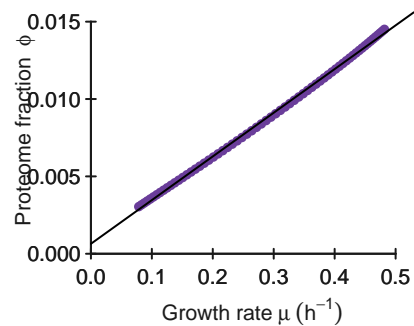
rRNAp



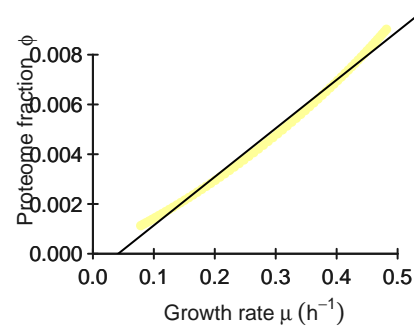
mRNAp



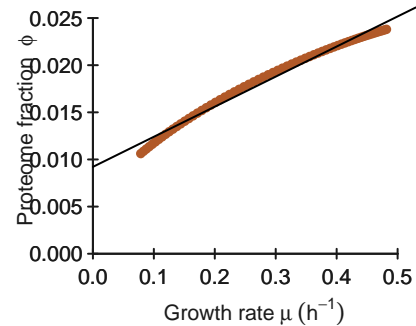
tRNAp



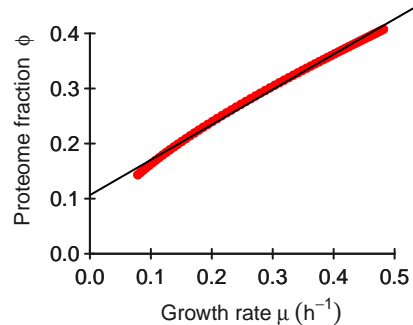
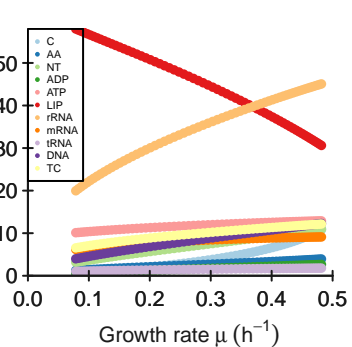
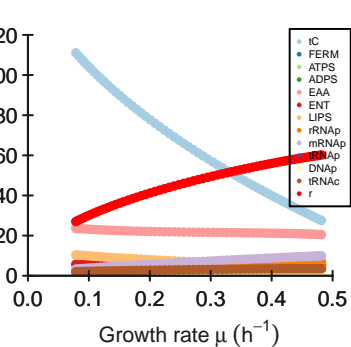
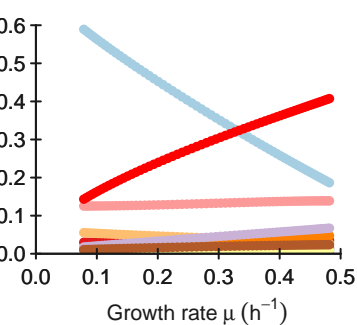
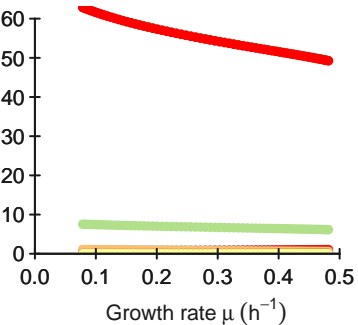
DNAp

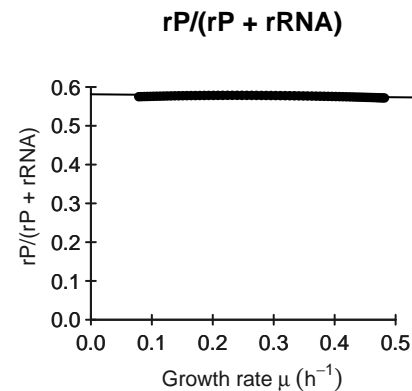
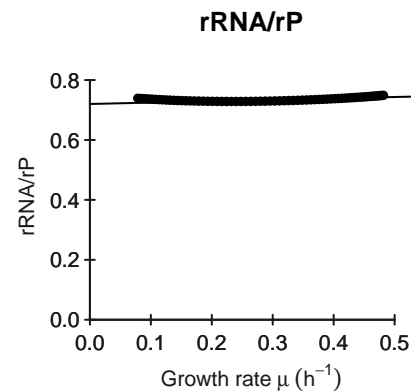
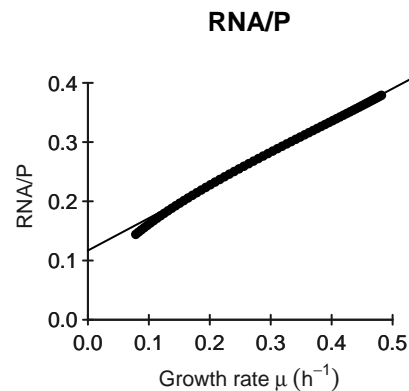
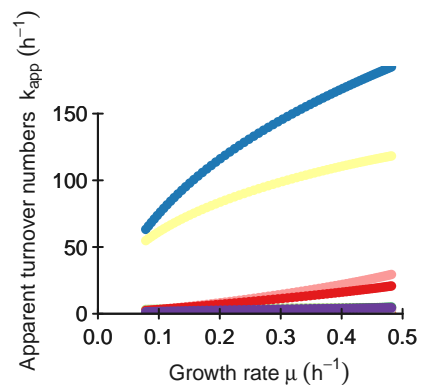
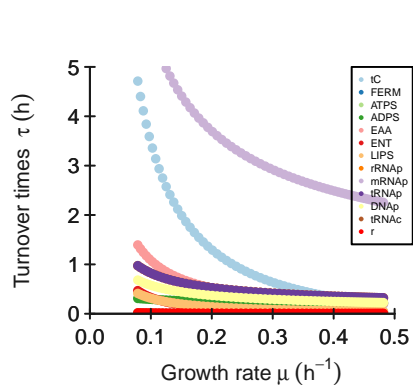


tRNAc

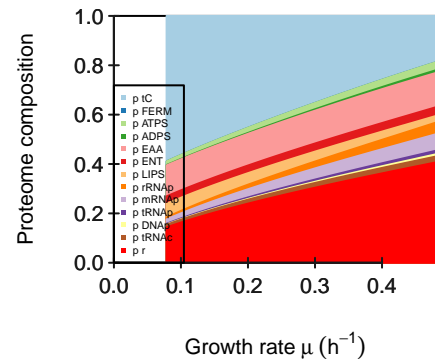
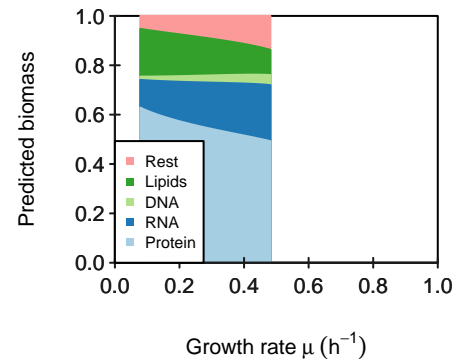
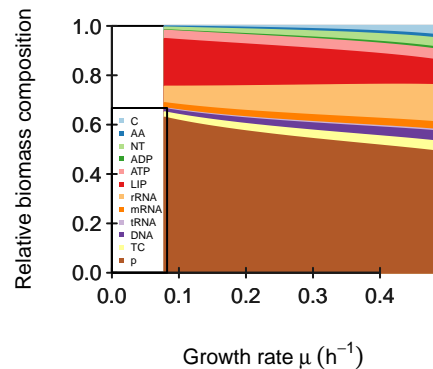
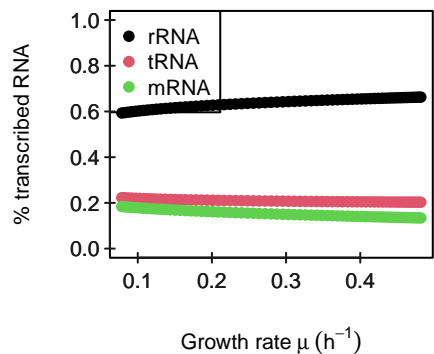
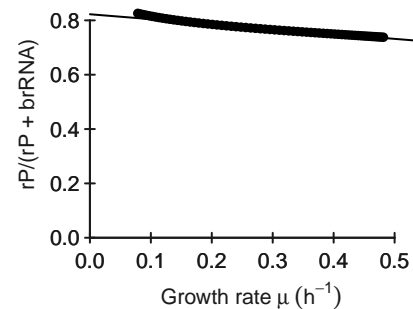


r

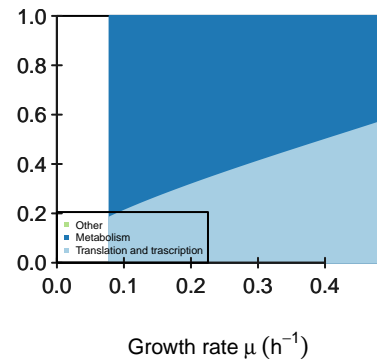
Metabolite concentrations c^m (g/L)Protein concentrations p (g/L)Proteome fractions ϕ Flux fractions f 



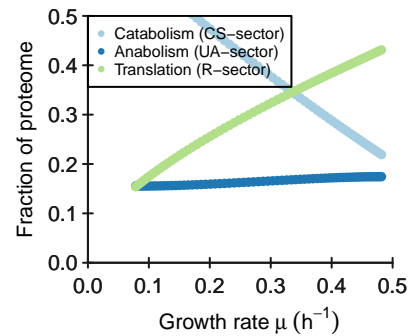
Protein mass fraction in ribosome



Proteome sectors



Proteome sectors



M

[illegible]

K

[illegible]

KA[illegible]

kcat

	tC	FERM	ATPS	ADPS	EAA	ENT	LIPS	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
kcatf	31	4330	433	9	8	109	41	7	1	7	10	7351	446
kcatb	3	433	43	1	1	11	4	0	0	0	0	0	0

Keq

[1,]	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]
2686.666666666667	60	60.4186046511628	4.5	17.6	5.45	61.5	Inf	Inf	Inf	Inf	Inf	Inf	Inf

phi input

0.0364656381486676	0.00701262272089762	0.231416549789621	0.032258064516129	0.0434782608695652	0.0597475455820477	0.0298737727910238	0.00995792426367462	0.002805046
[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	

average saturation input

3

minimal phi constraint

[illegible]

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