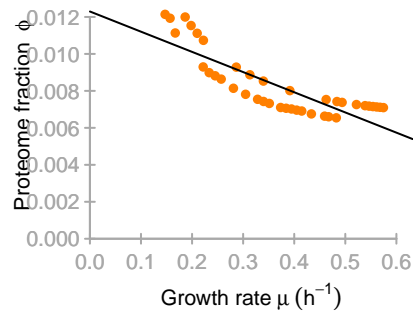
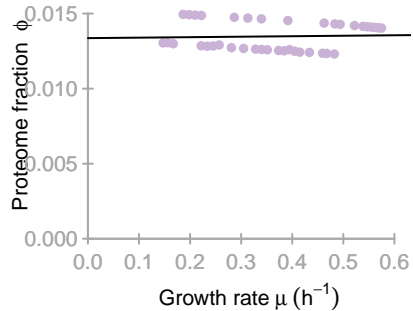
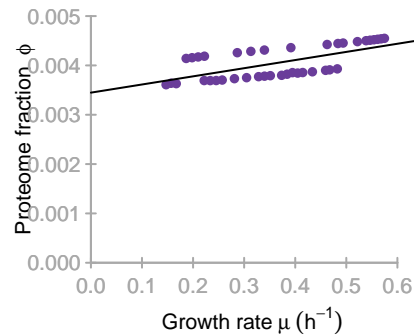
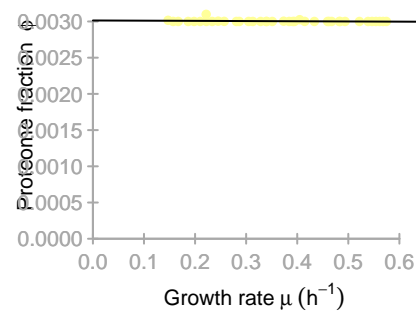
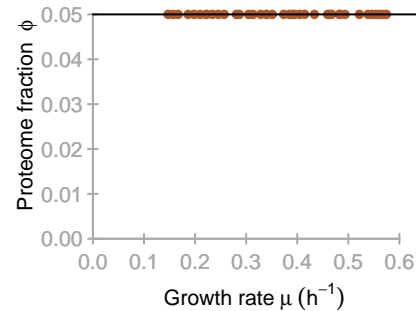
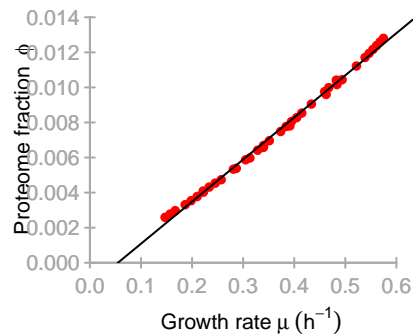
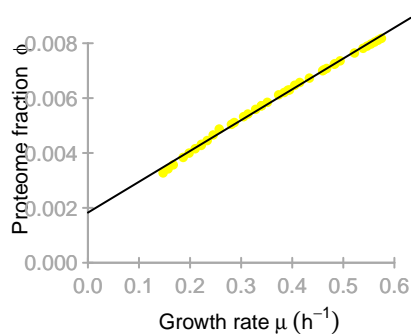
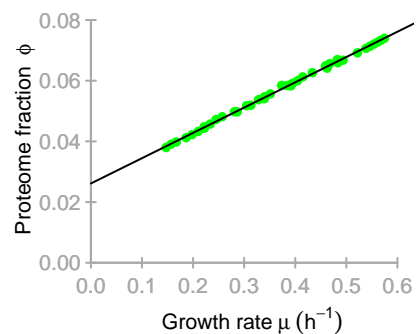
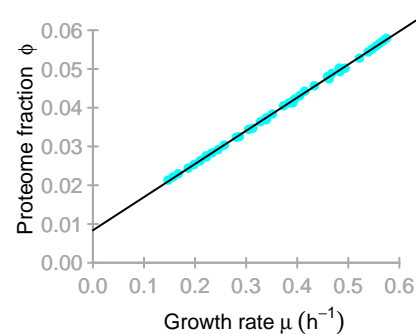
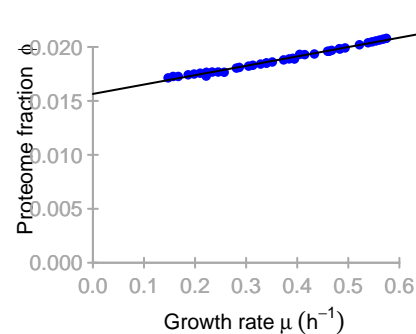
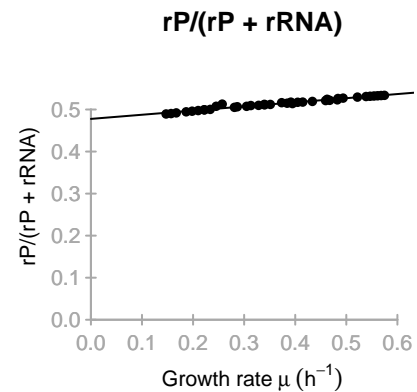
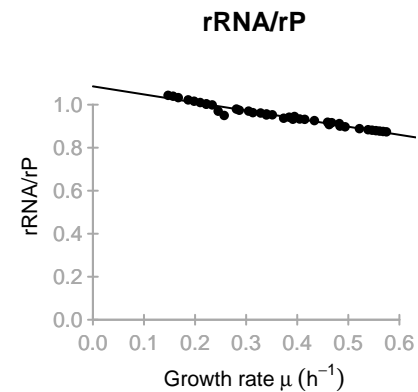
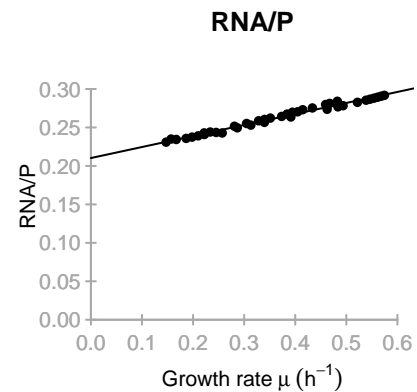
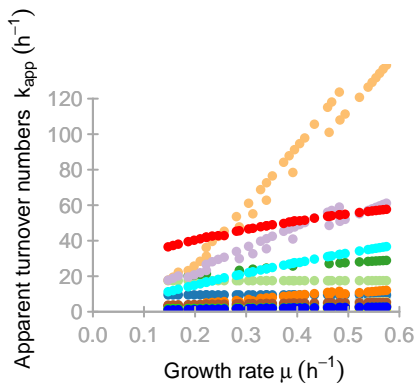
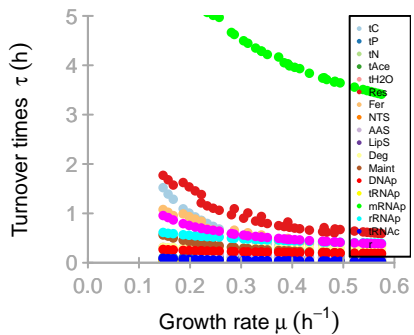
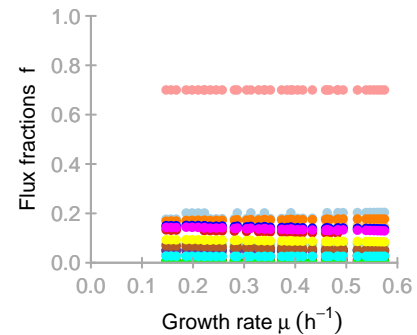
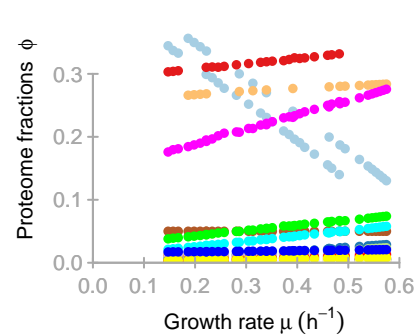
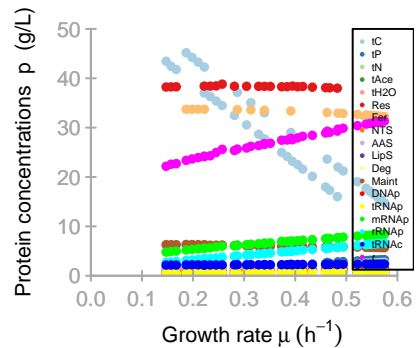
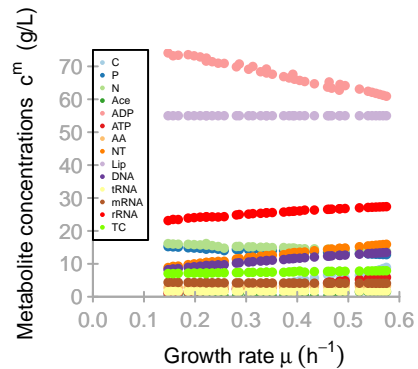
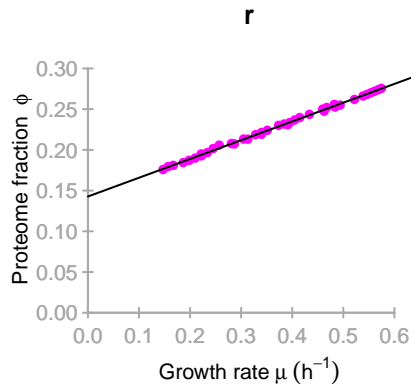
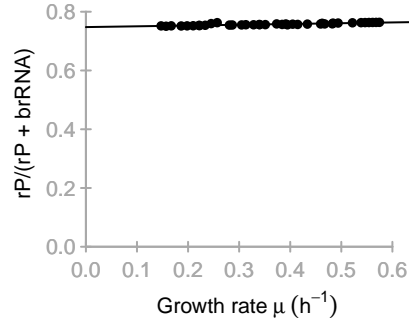


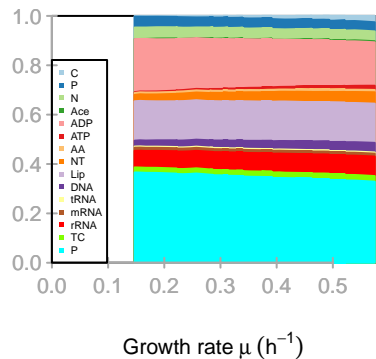
**NTS****AAS****LipS****Deg****Maint****DNAP****tRNAp****mRNAp****rRNAp****tRNAc**



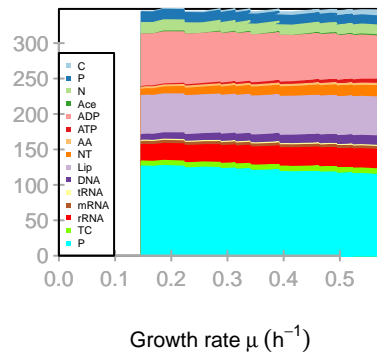
## Protein mass fraction in ribosome



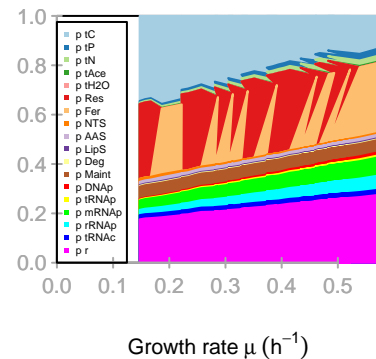
Relative biomass composition



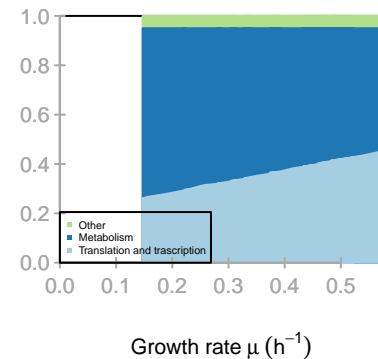
Absolute biomass composition



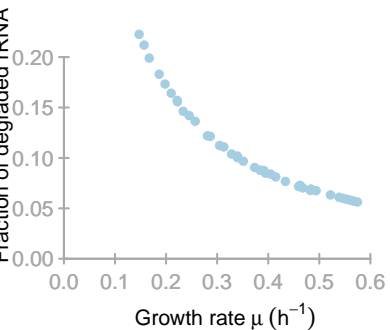
Proteome composition



Proteome sectors



Fraction of degraded rRNA



**M**

[illegible]

## K

[illegible]

**KA**[illegible]

# kcat

	tC	tP	tN	tAce	tH2O	Res	Fer	NTS	AAS	LipS	Deg	Maint	DNAP	tRNAp	mRNAp	rRNAp	tRNAc	r
kcatf	25	21	39	107	41783	10	20	364	21	118	10	10	11	152	1	7	201	20
kcatb	2	2	4	11	4178	1	2	36	2	12	0	0	0	0	0	0	0	0



# Keq

I,]	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]	[,14]	[,15]	[,16]	[,17]
	50	10.5	9.75	3.2424242424242424	10.0007180469124	5.25760239105999e-05	0.000103485387863234	44.55208333333333	3.9375	33.80208333333333	Inf	Inf	Inf	Inf	Inf	Inf	Inf

## phi input

[1,]	0.04889999999999999	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]
		0.01	0.01	0.001	1e-04	0.1	0.15	0.05	0.05	0.02	0.01	0.2	0.01	0.01	0.01	0.02	0.05	0.25	

**average saturation input**

1

## 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] 0.003	[,12] 0.05	[,13] 0	[,14] 0	[,15] 0	[,16] 0	[,17] 0	[,18] 0
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## minimal f constraint

[1,]	[1] 0	[2] 0	[3] 0	[4] 0	[5] 0.7	[6] 0	[7] 0	[8] 0	[9] 0	[10] 0.05	[11] 0	[12] 0	[13] 0	[14] 0	[15] 0	[16] 0	[17] 0	[18] 0
------	----------	----------	----------	----------	------------	----------	----------	----------	----------	--------------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------