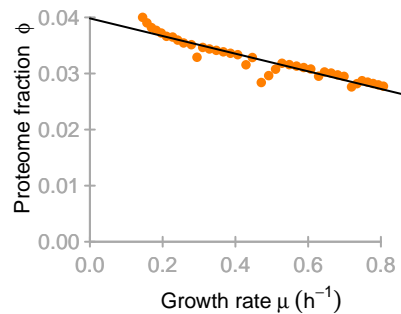
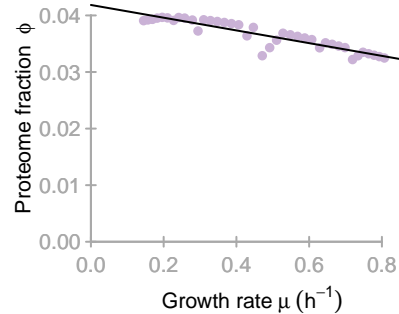
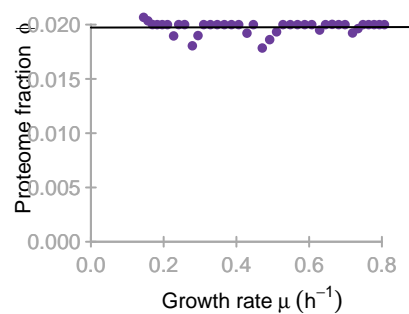
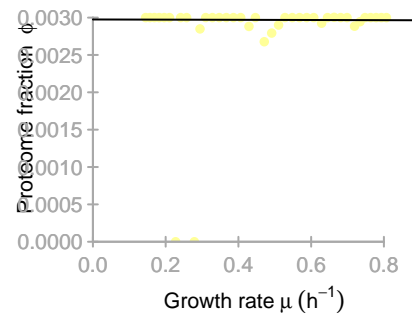
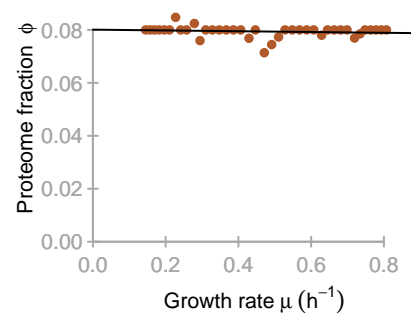
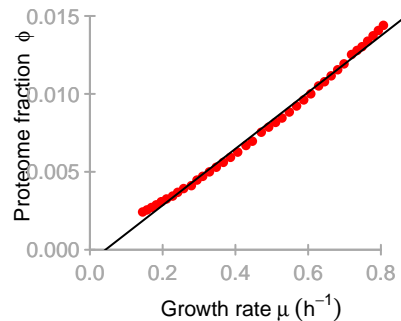
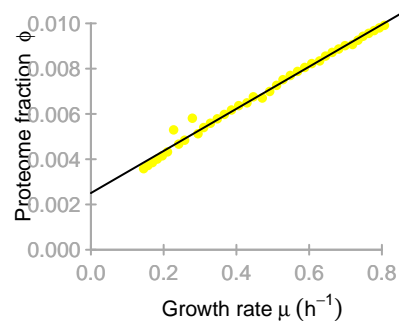
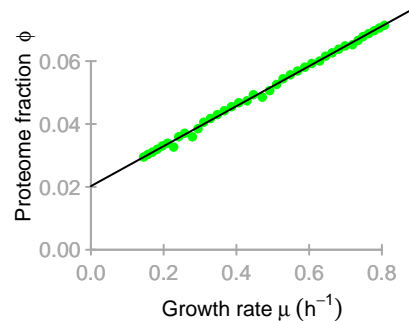
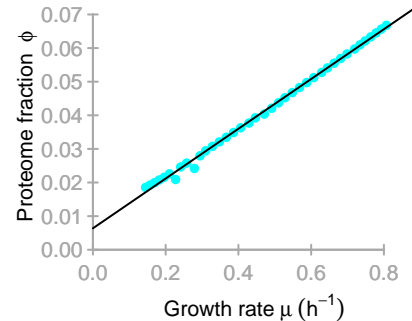
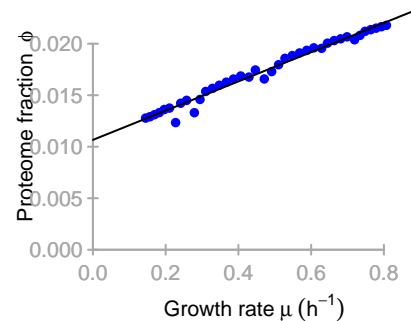
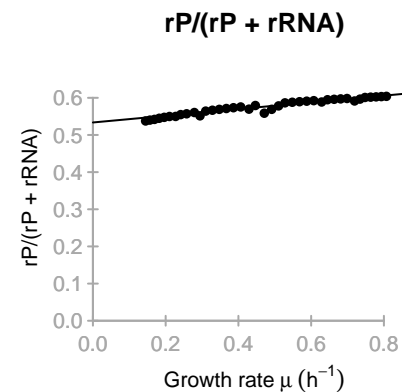
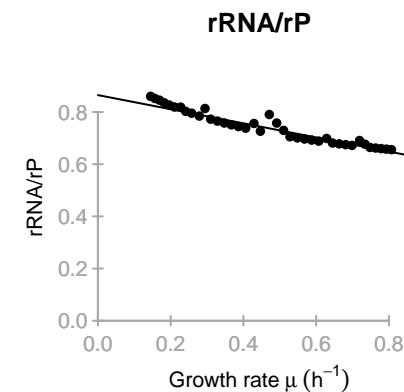
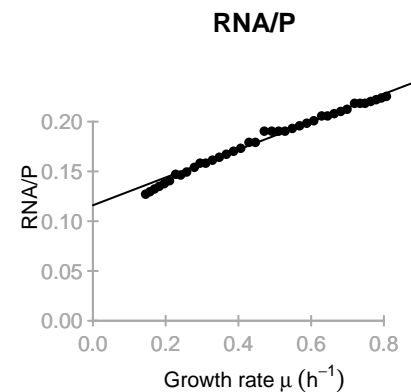
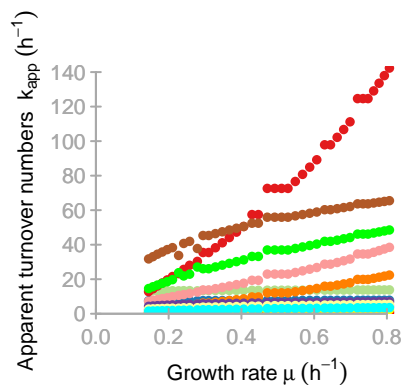
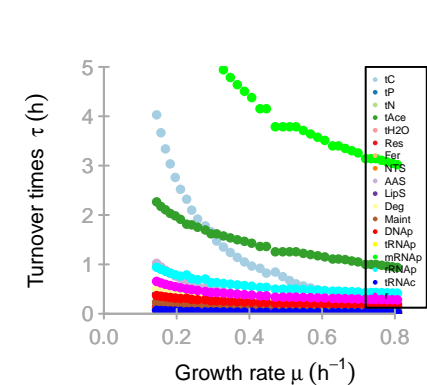
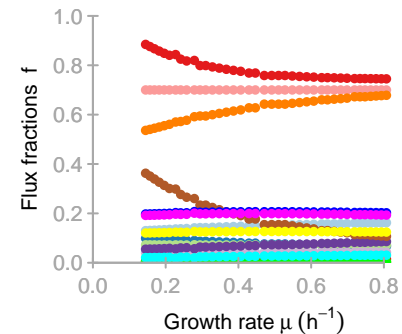
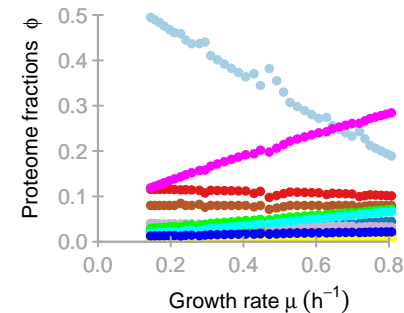
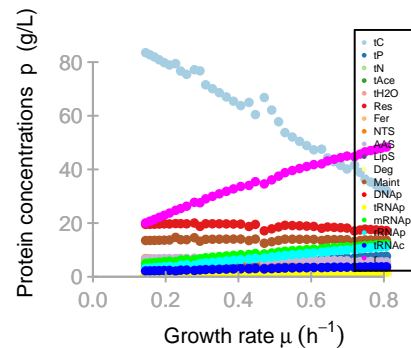
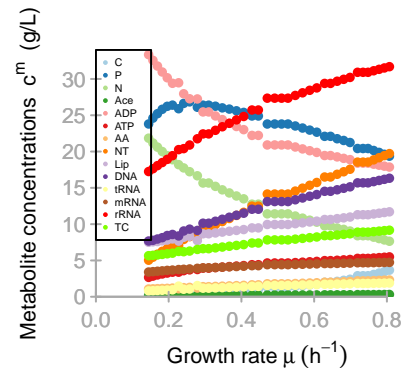
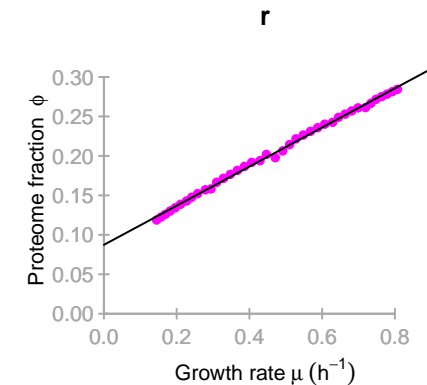
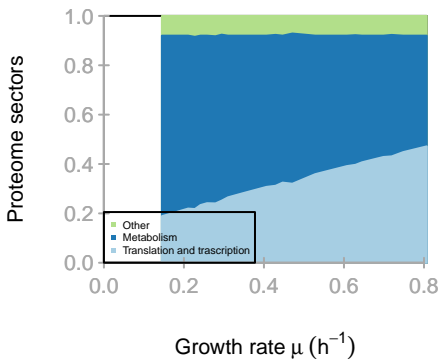
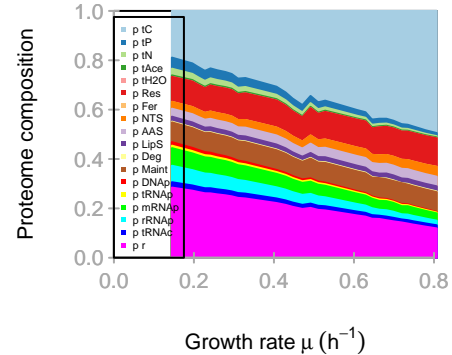
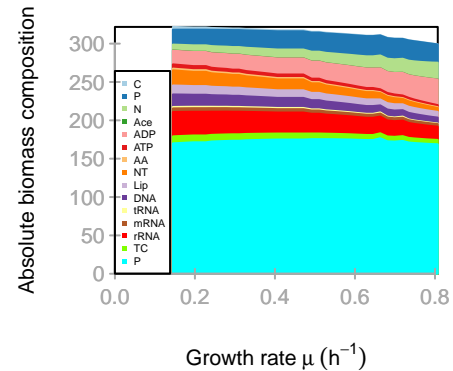
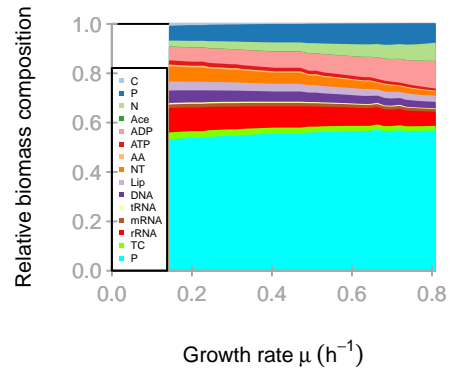
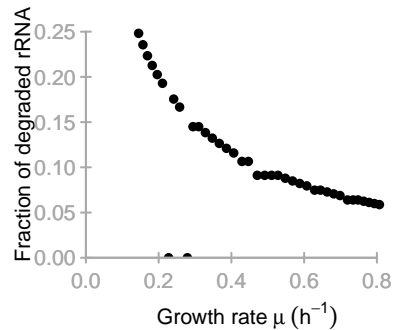
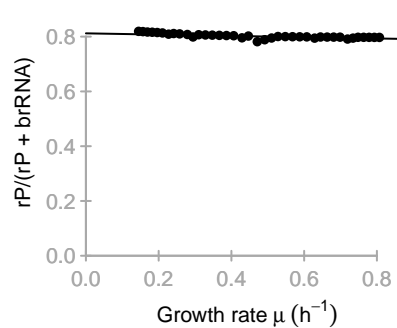


**NTS****AAS****LipS****Deg****Maint****DNAP****tRNAp****mRNAp****rRNAp****tRNAc**



### Protein mass fraction in ribosome



**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	16	19	33	10	45841	225	450	1016	21	152	10	10	10	152	1	6	201	20
kcatb	2	2	3	1	4584	22	45	102	2	15	0	0	0	0	0	0	0	0



# Keq

[1.]	[,1] 32	[,2] 9.5	[,3] 11	[,4] 50	10.0002181500873	[,5] 84.375	[,6] 13942.5	0.0565953654188948	[,7] 2.625	[,8] 0.00738150738150738	[,9] Inf	[,10] Inf	[,11] Inf	[,12] Inf	[,13] Inf	[,14] Inf	[,15] Inf	[,16] Inf	[,17] Inf	[,18] Inf
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## 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] 0.02	[,11] 0.003	[,12] 0.08	[,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	[11] 0	[12] 0	[13] 0	[14] 0	[15] 0	[16] 0	[17] 0	[18] 0
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