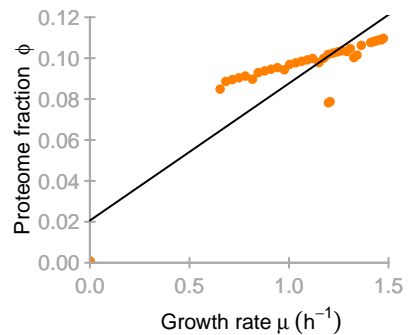
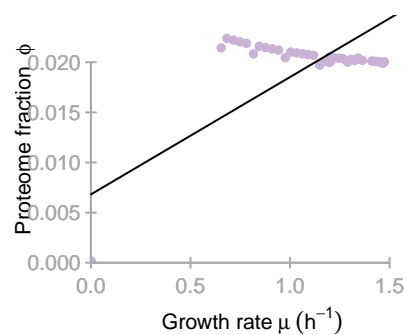
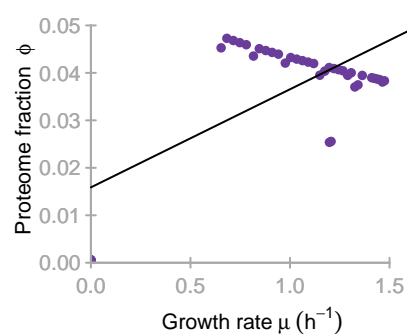
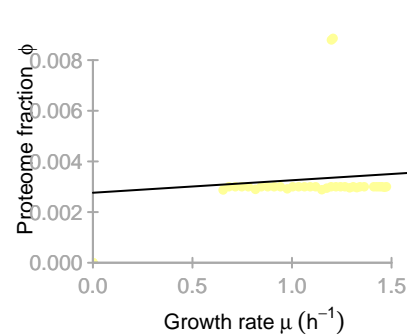
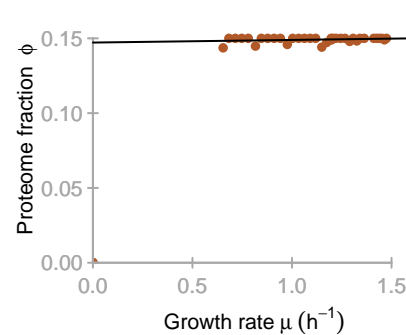
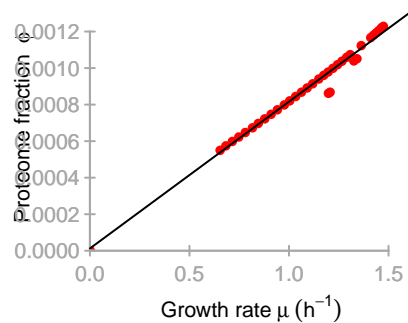
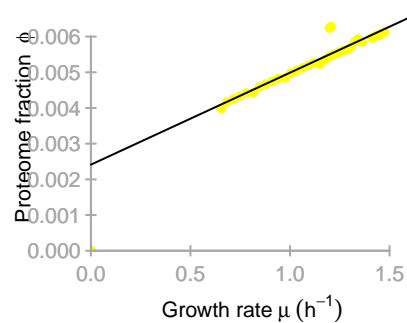
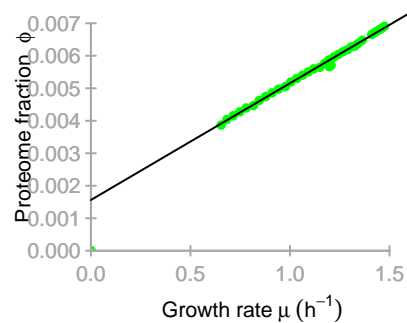
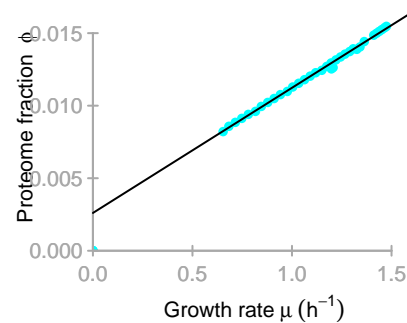
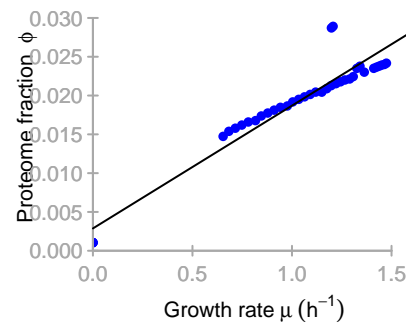
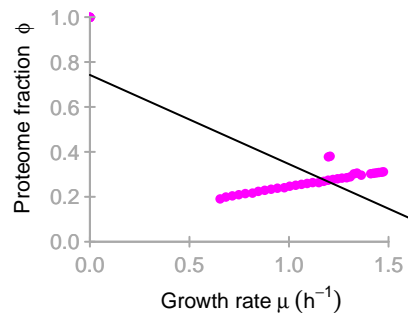
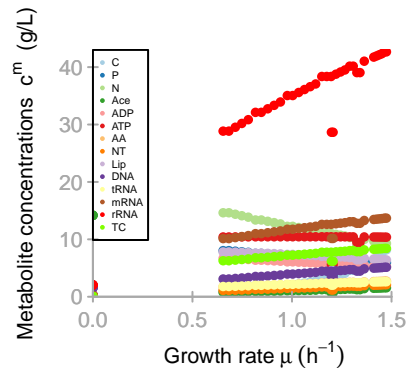
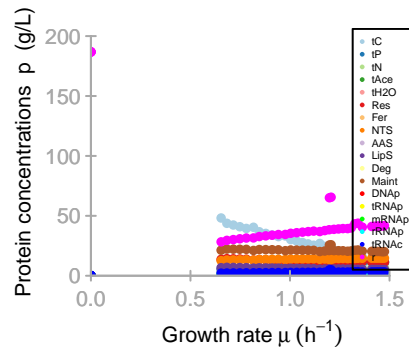
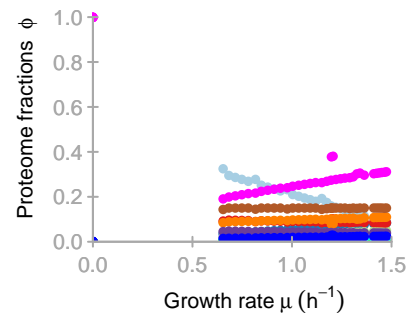
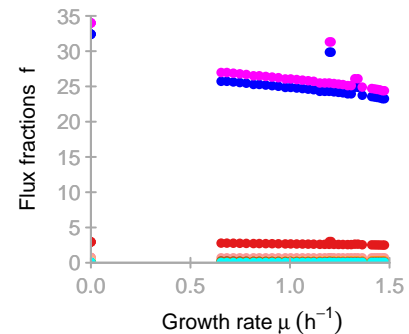
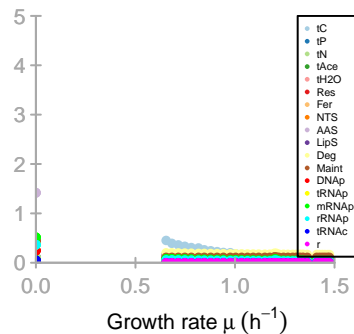
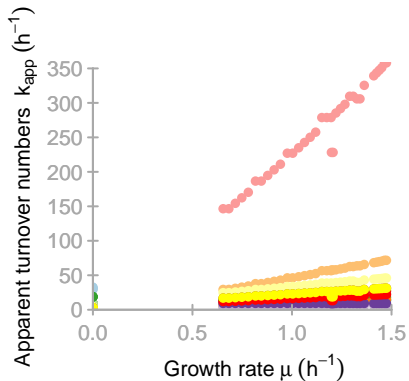
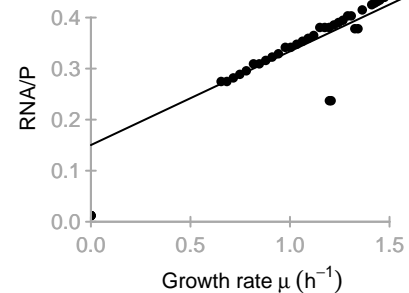
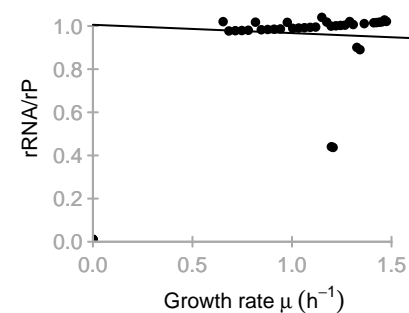
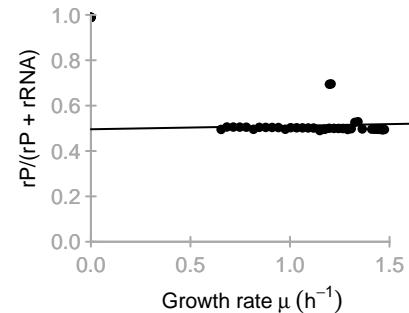
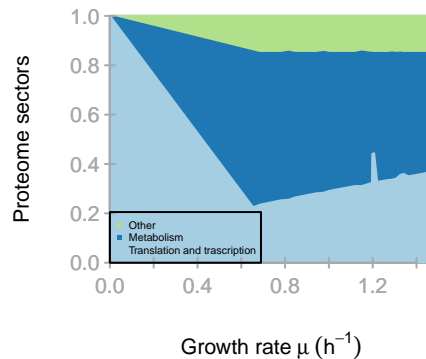
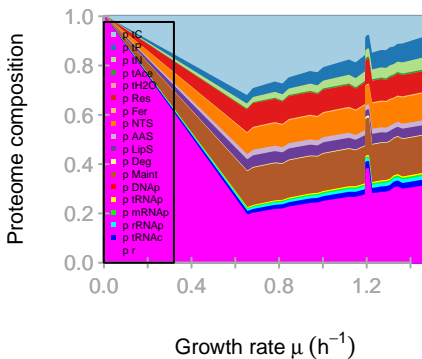
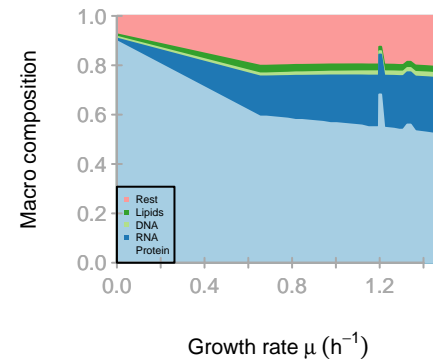
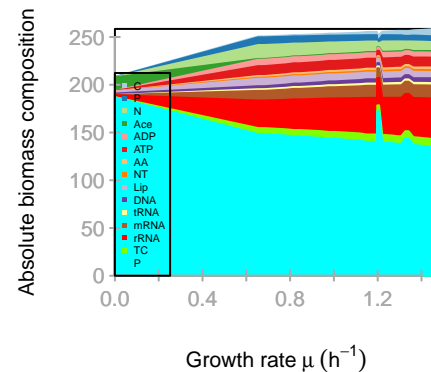
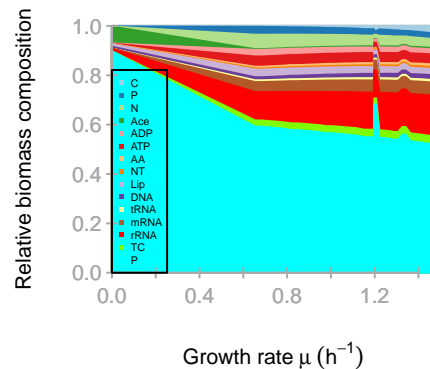
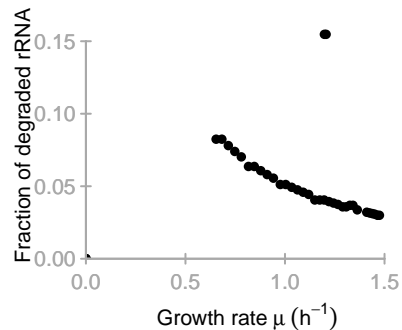
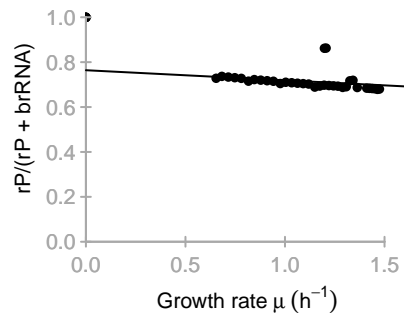


NTS**AAS****LipS****Deg****Maint****DNAP****tRNAp****mRNAp****rRNAp****tRNAc**

rMetabolite concentrations c^m (g/L)Protein concentrations p (g/L)Proteome fractions ϕ Flux fractions f Turnover times τ (h)Apparent turnover numbers k_{app} (h^{-1})**RNA/P****rRNA/rP****rP/(rP + rRNA)**

Protein mass fraction in ribosome



M

[illegible]

K

[illegible]

KA[illegible]

kcat

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]
kcatf	100	40	40	40	40000	900	1500	100	100	50	10	10	200	136	96	136	60000	6000
kcatb	10	4	4	2	4000	90	90	10	10	5	0	0	0	0	0	0	0	0

Keq

[1,]	[,1] 100	[,2] 10	[,3] 10	[,4] 200	[,5] 10	[,6] 40000	[,7] 66666.66666666667	[,8] 0.03125	[,9] 25	[,10] 0.3333333333333333	[,11] Inf	[,12] Inf	[,13] Inf	[,14] Inf	[,15] Inf	[,16] Inf	[,17] Inf	[,18] Inf
------	-------------	------------	------------	-------------	------------	---------------	---------------------------	-----------------	------------	-----------------------------	--------------	--------------	--------------	--------------	--------------	--------------	--------------	--------------

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] 0.15	[,13] 0	[,14] 0	[,15] 0	[,16] 0	[,17] 0	[,18] 0
------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	------------	----------------	---------------	------------	------------	------------	------------	------------	------------

minimal f constraint

[1,]	[,1] 0	[,2] 0	[,3] 0	[,4] 0	[,5] 0.7	[,6] 0	[,7] 0	[,8] 0	[,9] 0	[,10] 0.015	[,11] 0	[,12] 0	[,13] 0	[,14] 0	[,15] 0	[,16] 0	[,17] 0	[,18] 0
------	-----------	-----------	-----------	-----------	-------------	-----------	-----------	-----------	-----------	----------------	------------	------------	------------	------------	------------	------------	------------	------------