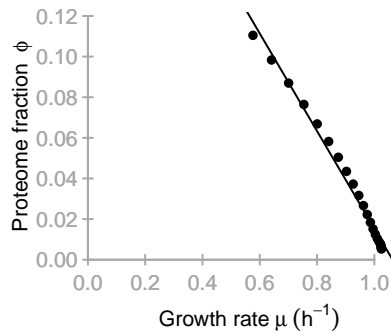
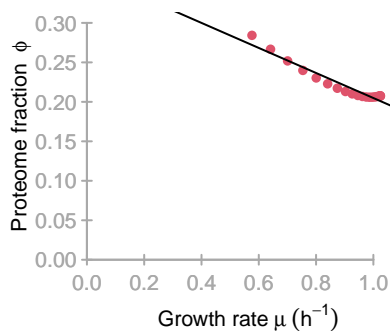


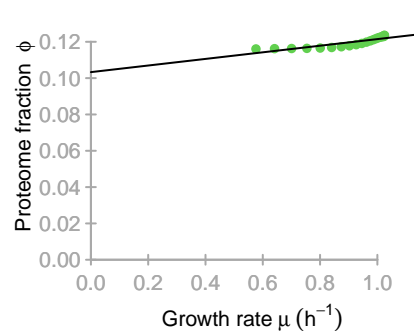
Cin



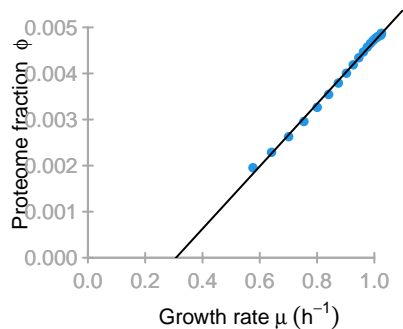
EAA



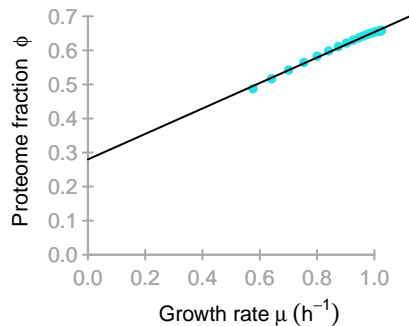
ENT



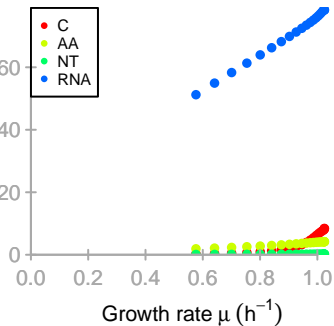
RNAp



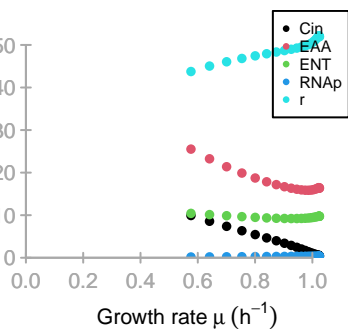
r



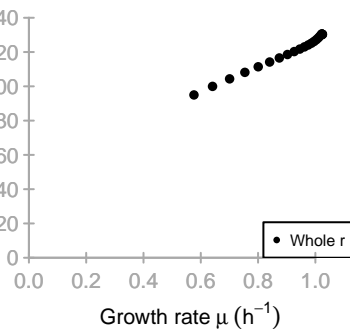
Metabolite concentrations c^m (g/L)



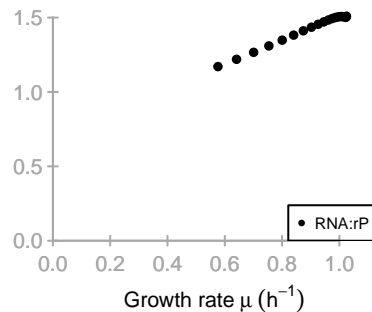
Protein concentrations p (g/L)

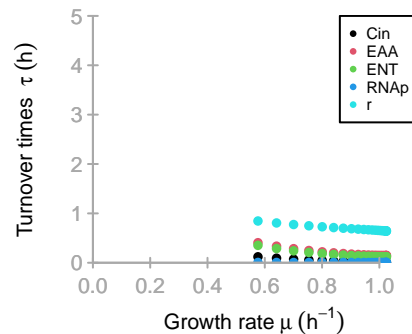
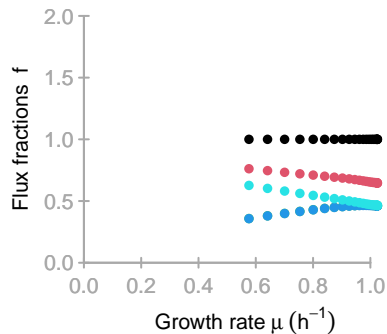
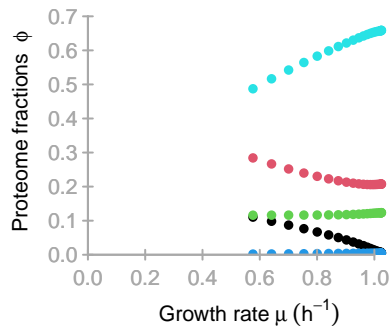
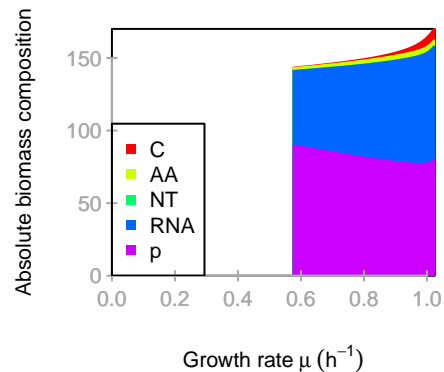
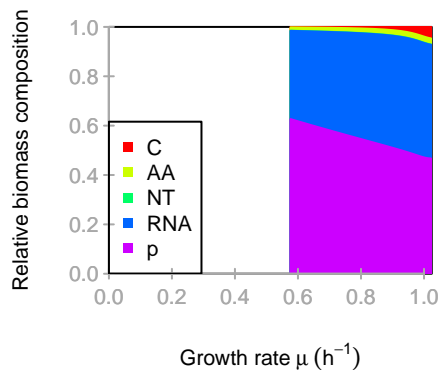
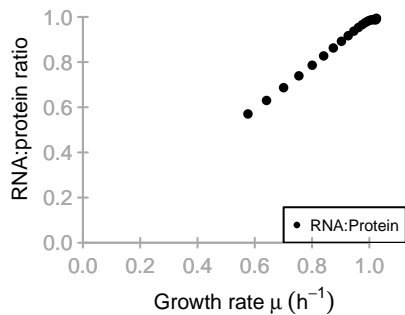


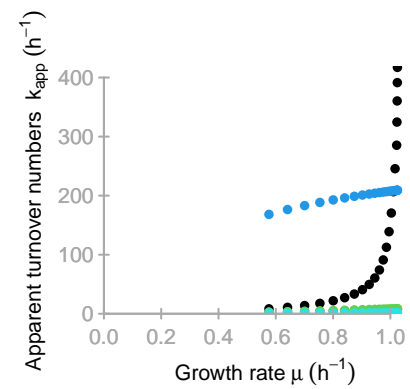
Ribosome concentrations p (g/L)



RNA:rP ratio







M

	Cin	EAA	ENT	RNAp	r
C	1	-1	-0.66	0	0
AA	0	1	-0.34	0	-1
NT	0	0	1	-1	0
RNA	0	0	0	1	0
p	0	0	0	0	1

K

	Cin	EAA	ENT	RNAp	r
[1,]	0.01	0	0	0	0
[2,]	0.5	0.5	0.5	0	0
[3,]	0	20	0.5	0	0.05
[4,]	0	0	20	0.05	0
[5,]	0	0	0	0	0
[6,]	0	0	0	0	0

KA

	Cin	EAA	ENT	RNAp	r
[1,]	0	0	0	0	0
[2,]	0	0	0	0	0
[3,]	0	0	0	0	0
[4,]	0	0	0	0	0
[5,]	0	0	0	0	100
[6,]	0	0	0	0	0

kcat

	[,1]	[,2]	[,3]	[,4]	[,5]
kcatf	500	7.3846	9.8004	260.2688	3.5828
kcatb	50	1.47692	1.96008	0	0

Keq

[1,]	[,1]	[,2]	[,3]	[,4]	[,5]
	500	200	400	Inf	Inf