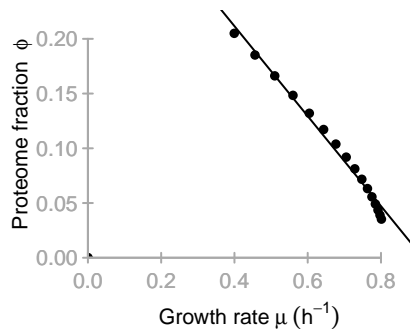
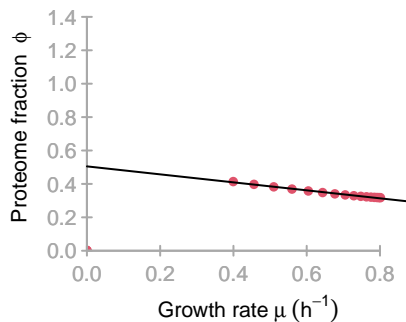


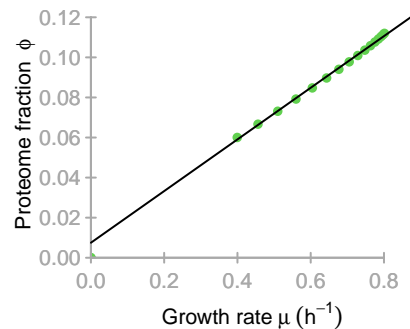
Cin



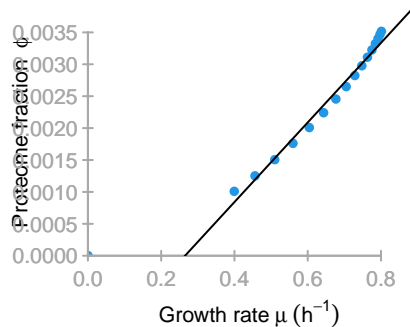
EAA



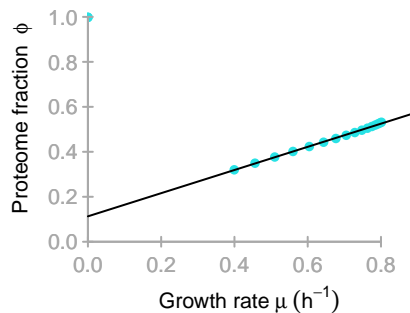
ENT



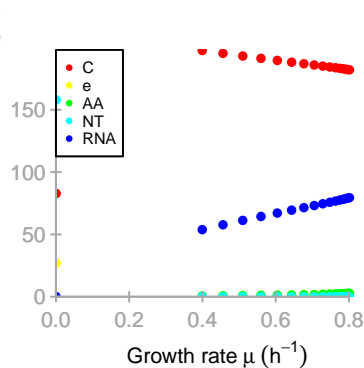
RNAp



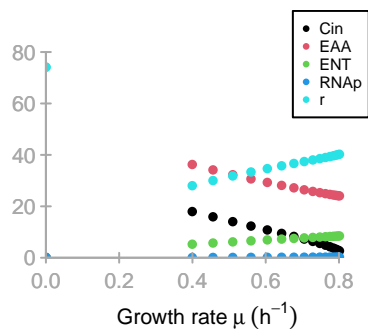
r



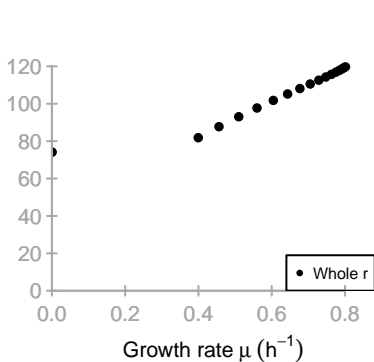
Metabolite concentrations c^m (g/L)



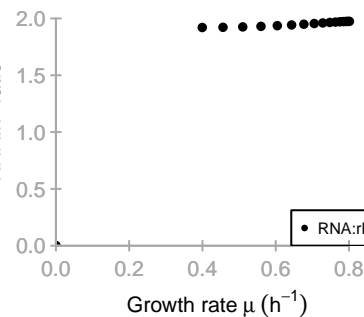
Protein concentrations p (g/L)

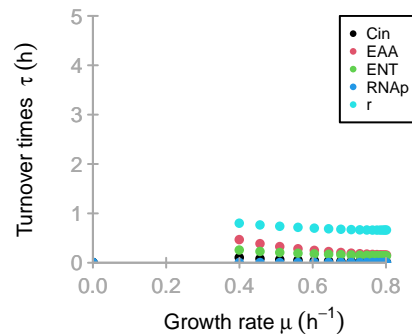
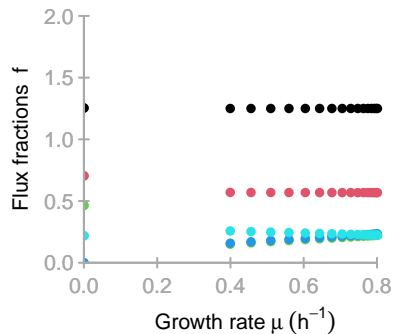
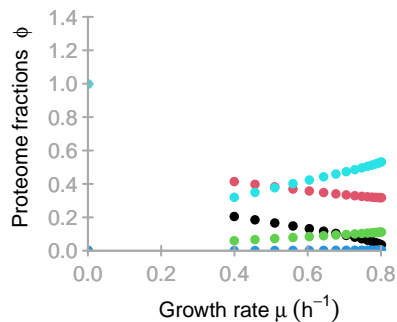
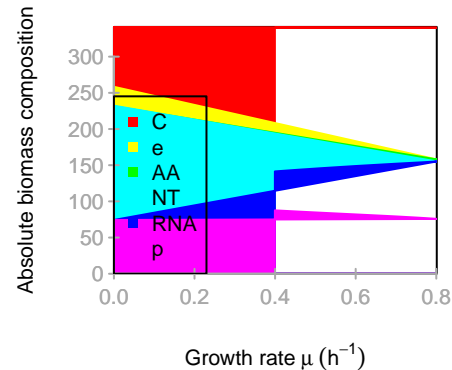
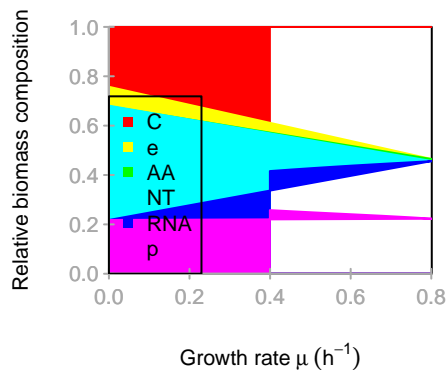
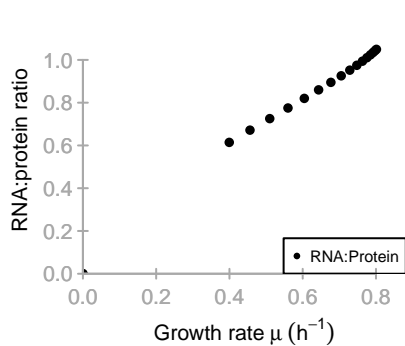


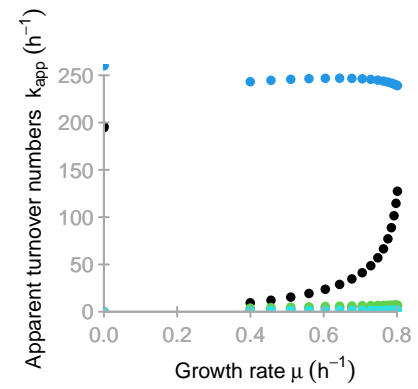
Ribosome concentrations p (g/L)



RNA:rP ratio







M

	Cin	EAA	ENT	RNAp	r
C	1	-1	-0.66	0	0
e	-0.2	0.5	0	-0.05	-0.1
AA	0	0.5	-0.34	0	-0.9
NT	0	0	1	-0.95	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,]	1	1	1	0	0
[3,]	0.001	0.001	0	0.001	0.001
[4,]	0	10	1	0	0.001
[5,]	0	0	10	0.001	0
[6,]	0	0	0	0	0
[7,]	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	0
[6,]	0	0	0	0	100
[7,]	0	0	0	0	0

kcat

	[,1]	[,2]	[,3]	[,4]	[,5]
kcatf	200	7.3846	9.8004	260.2688	3.5828
kcatb	40	1.47692	1.96008	0	0

Keq

[1,]	[,1]	[,2]	[,3]	[,4]	[,5]
	5e+05	0.05	50	Inf	Inf