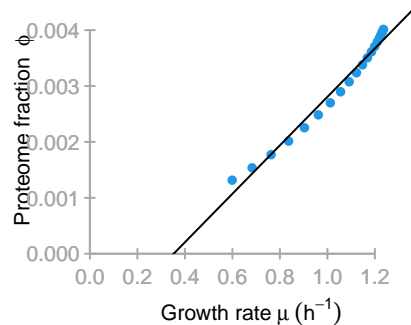
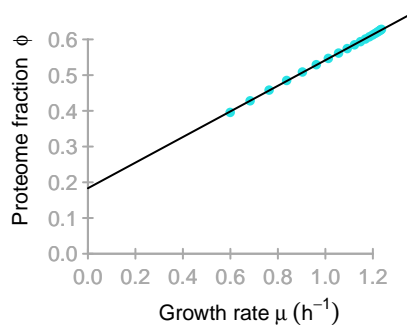


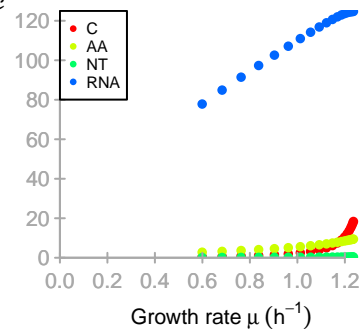
# RNaP



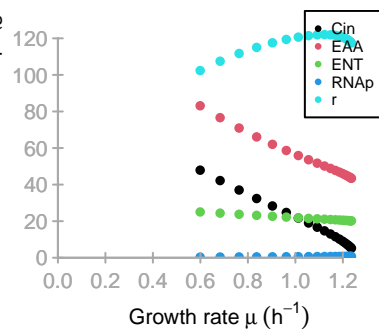
# r



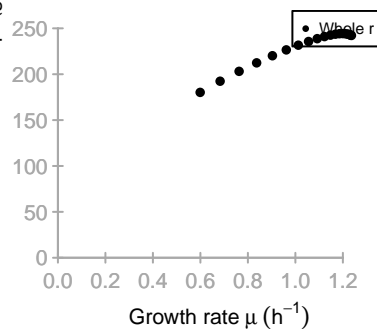
# Metabolite concentrations $c^m$ (g/L)



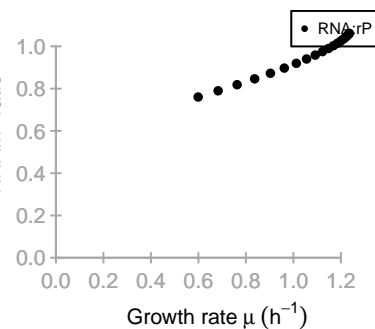
# Protein concentrations p (g/L)

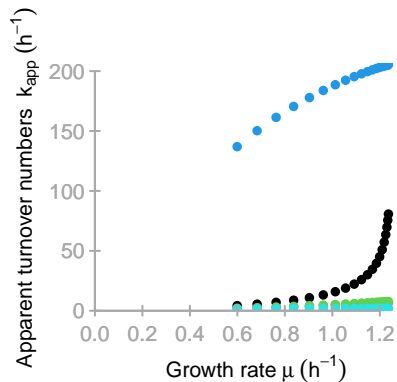
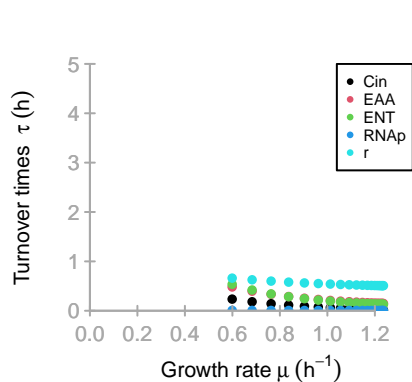
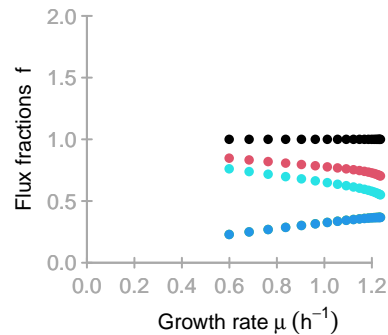
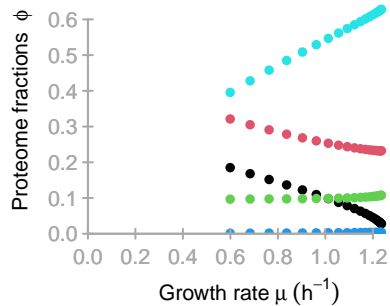
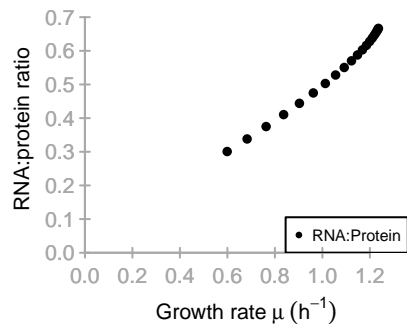


# Ribosome concentrations p (g/L)



# 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**

	<b>Cin</b>	<b>EAA</b>	<b>ENT</b>	<b>RNAp</b>	<b>r</b>
<b>[1,]</b>	0.01	0	0	0	0
<b>[2,]</b>	1	1	1	0	0
<b>[3,]</b>	0	20	2	0	0.1
<b>[4,]</b>	0	0	20	0.1	0
<b>[5,]</b>	0	0	0	0	0
<b>[6,]</b>	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**

	<b>[,1]</b>	<b>[,2]</b>	<b>[,3]</b>	<b>[,4]</b>	<b>[,5]</b>
<b>kcatf</b>	100	7.3846	9.8004	260.2688	3.5828
<b>kcatb</b>	20	1.47692	1.96008	0	0

## Keq

	[1,]	[,1]	[,2]	[,3]	[,4]	[,5]
[1,]		500	100	50	Inf	Inf