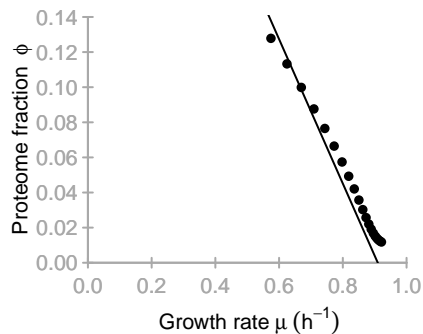
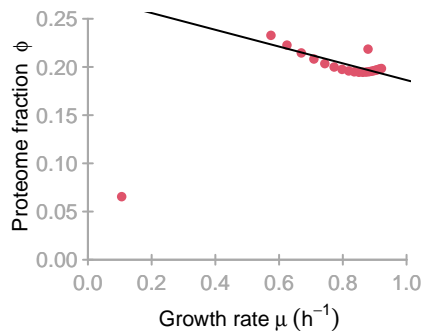


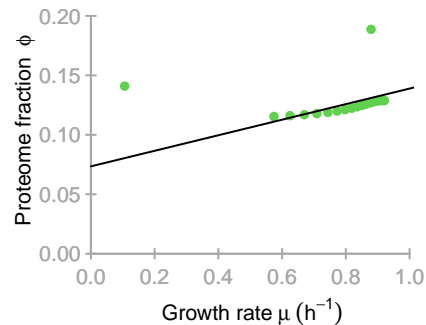
**Cin**



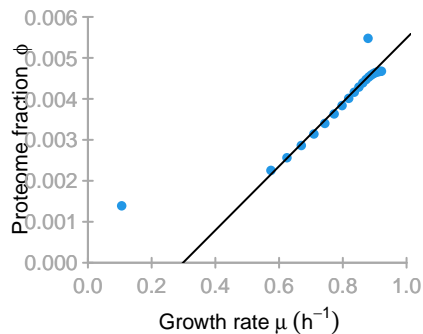
**EAA**



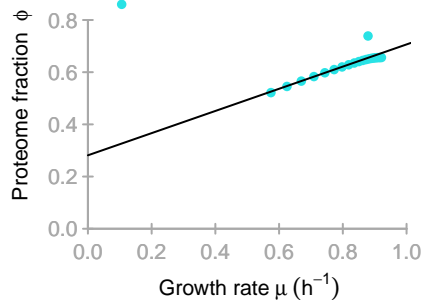
**ENT**



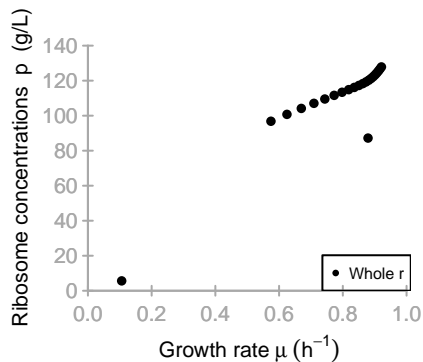
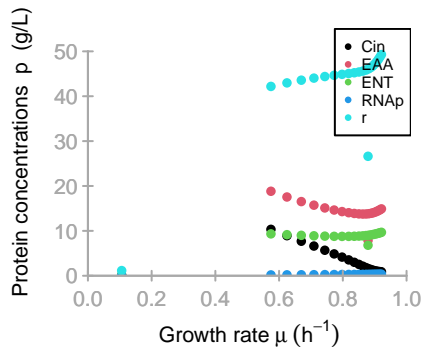
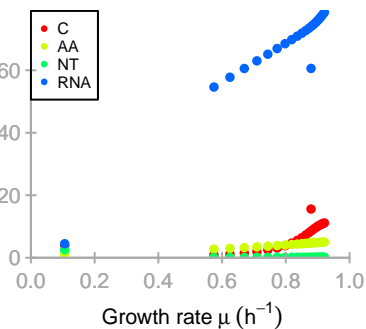
**RNAp**



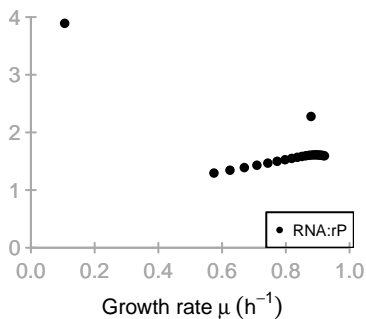
**r**

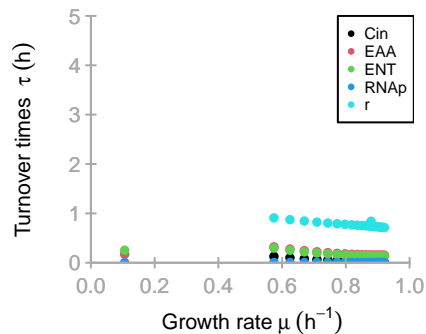
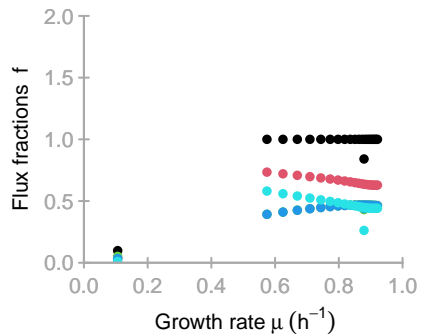
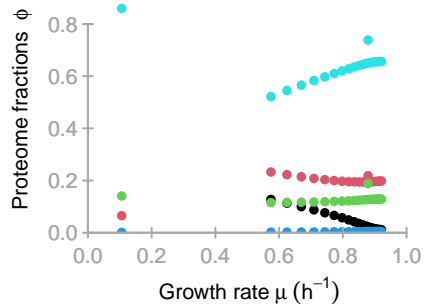
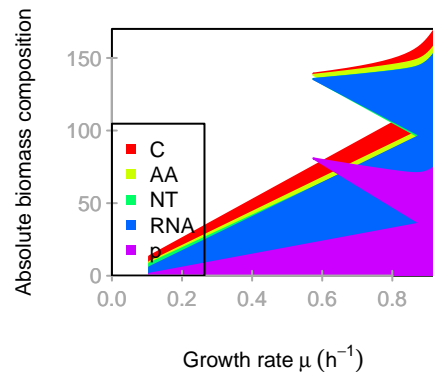
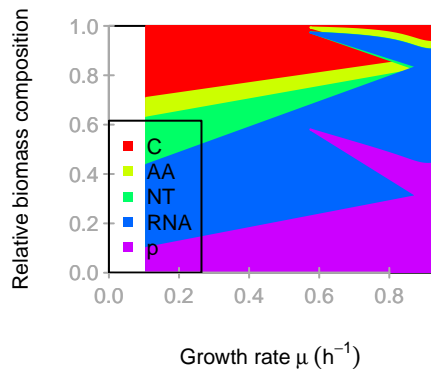
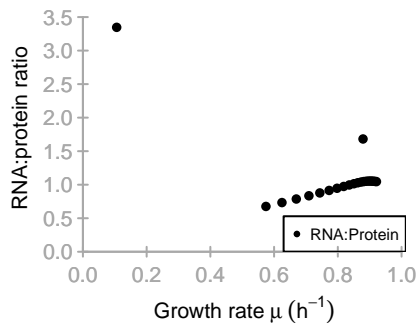


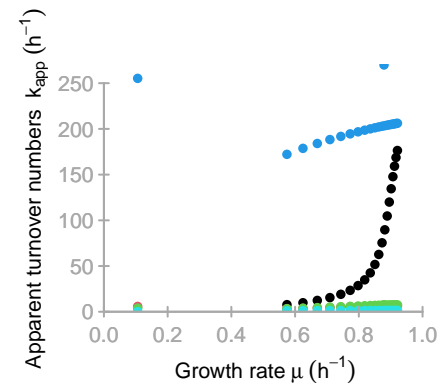
Metabolite concentrations  $c^m$  (g/L)



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	1	0	0.05
<b>[4,]</b>	0	0	20	0.05	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	120
[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>	200	7.3846	9.8004	260.2688	3.5828
<b>kcatb</b>	20	1.47692	1.96008	0	0



## Keq

	[1]	[2]	[3]	[4]	[5]
[1,]	1000	100	100	Inf	Inf