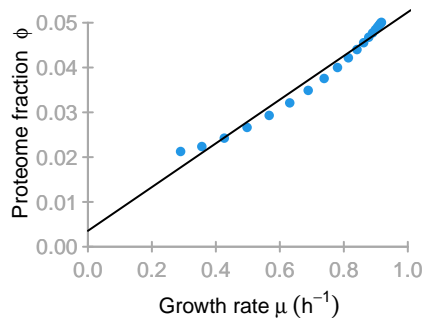
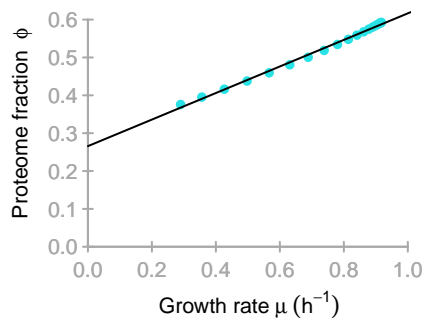


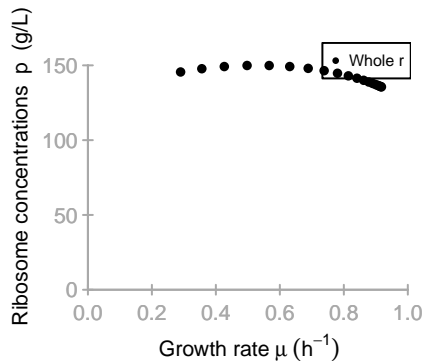
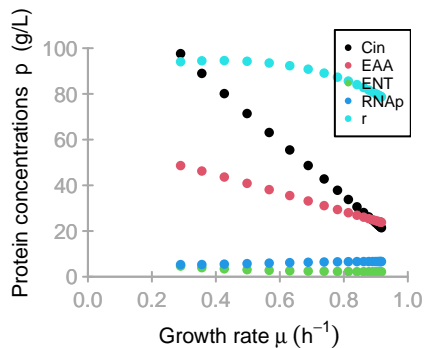
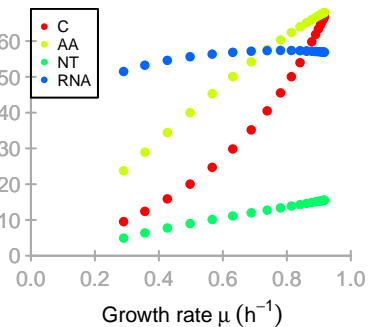
# RNaP



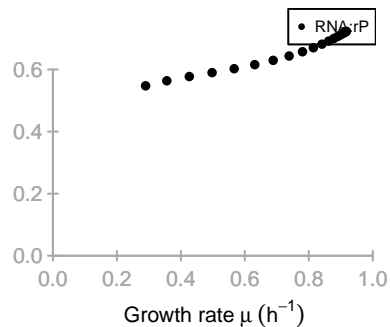
# r

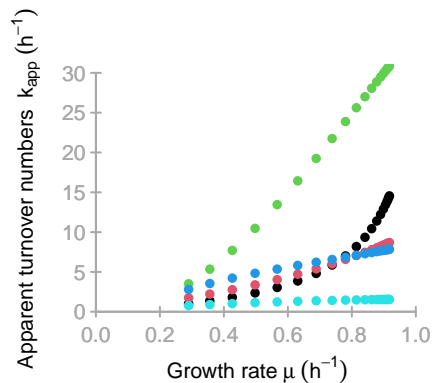
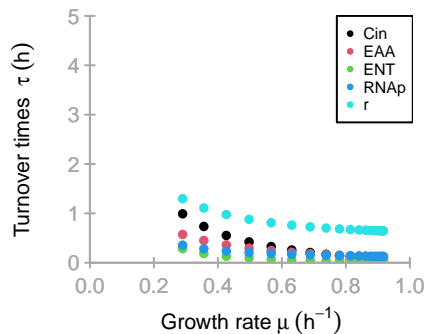
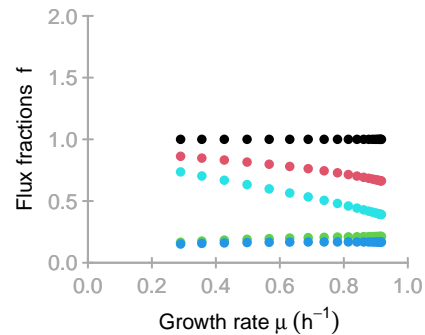
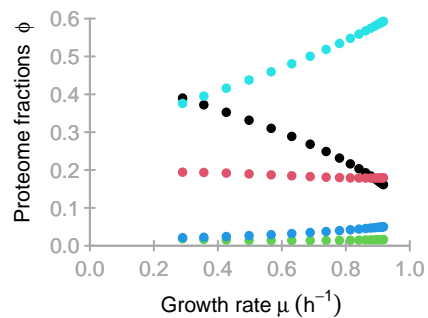
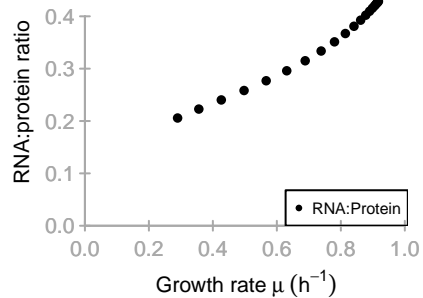


# Metabolite concentrations $c^m$ (g/L)



# 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>	43	43	43	0	0
<b>[3,]</b>	0	68	68	0	68
<b>[4,]</b>	0	0	71	71	0
<b>[5,]</b>	0	0	0	81	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	35
[6,]	0	0	0	0	0

## kcat

	Cin	EAA	ENT	RNAp	r
kcatf	15	25	111	69	5
kcatb	5	8	37	0	0

**Keq**

<b>[1,]</b>	<b>[,1]</b>	<b>[,2]</b>	<b>[,3]</b>	<b>[,4]</b>	<b>[,5]</b>
	12900	4.94186046511628	0.0728454172366621	Inf	Inf