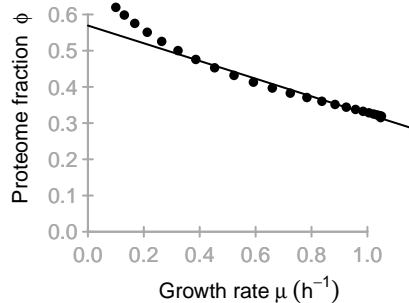
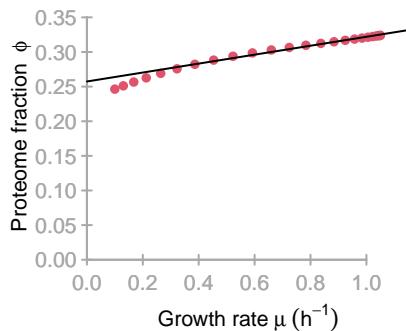


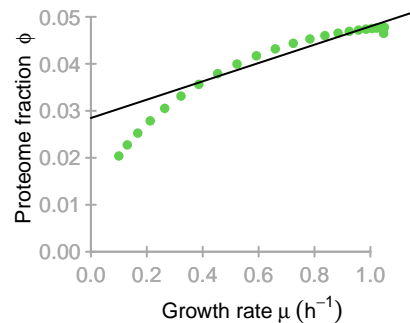
Cin

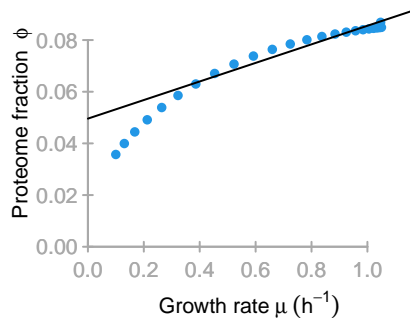
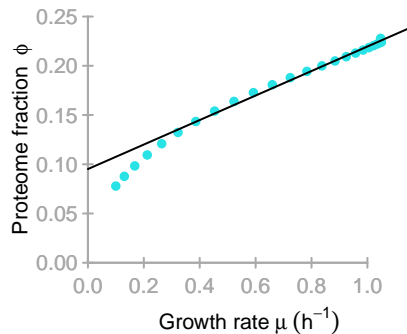
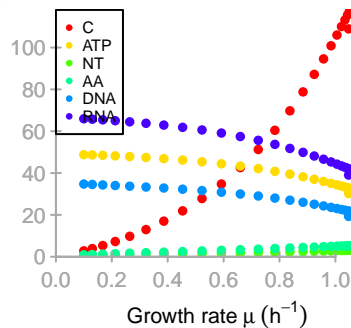
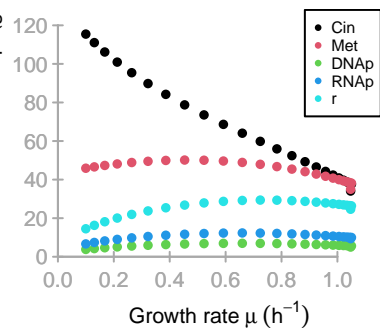
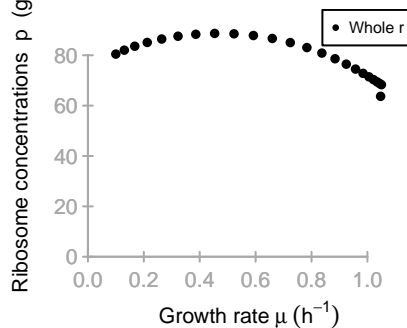


Met

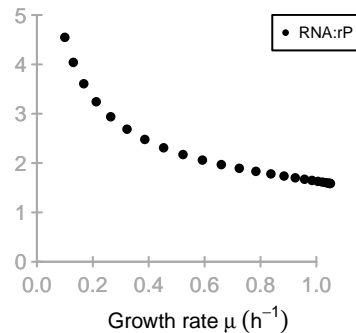


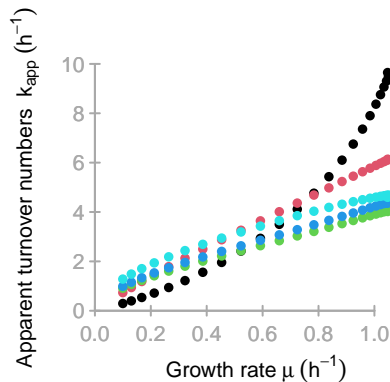
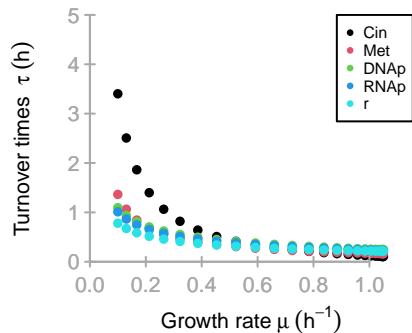
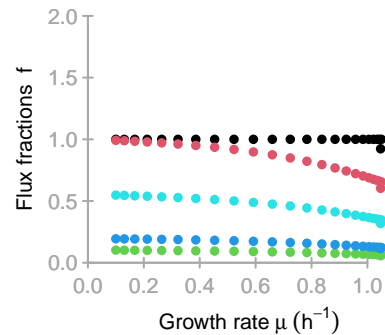
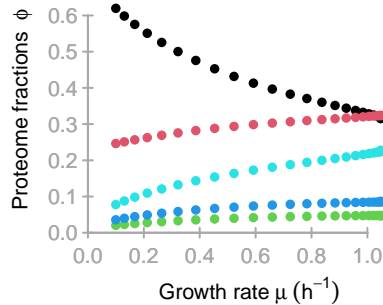
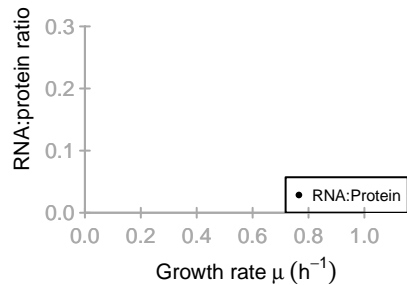
DNAP



RNAp**r**Metabolite concentrations c^m (g/L)Protein concentrations p (g/L)Ribosome concentrations p (g/L)

RNA:rP ratio





M

	Cin	Met	DNAP	RNAP	r
C	1	-1	0	0	0
ATP	0	0.2	0	0	-0.1
NT	0	0.3	-1	-1	0
AA	0	0.5	0	0	-0.9
DNA	0	0	1	0	0
RNA	0	0	0	1	0
p	0	0	0	0	1

K

	Cin	Met	DNAP	RNAp	r
[1,]	1	0	0	0	0
[2,]	50	1	0	0	0
[3,]	0	2	0	0	2
[4,]	0	3	5	5	0
[5,]	0	4	0	0	8
[6,]	0	0	0	0	0
[7,]	0	0	0	0	0
[8,]	0	0	0	0	0

KA

	Cin	Met	DNAP	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	3	3	0
[7,]	0	0	0	0	5
[8,]	0	0	0	0	0

kcat

	[,1]	[,2]	[,3]	[,4]	[,5]
kcatf	10	11	12	13	14
kcatb	2	3	0	0	0

Keq

	[1]	[2]	[3]	[4]	[5]
[1,]	250	88	Inf	Inf	Inf