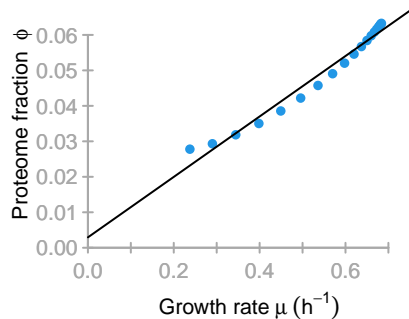
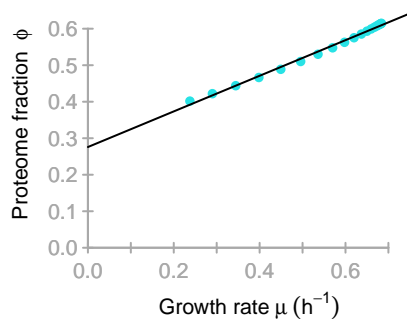
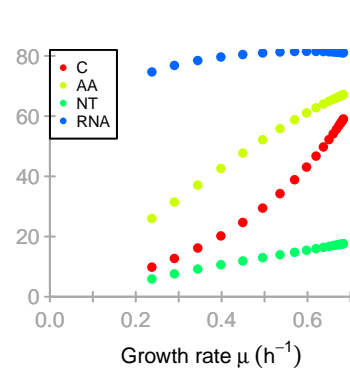
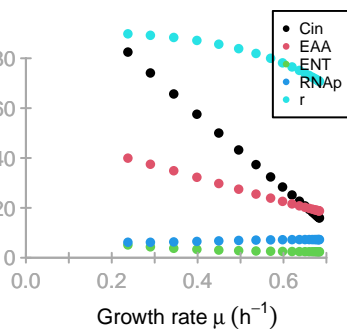
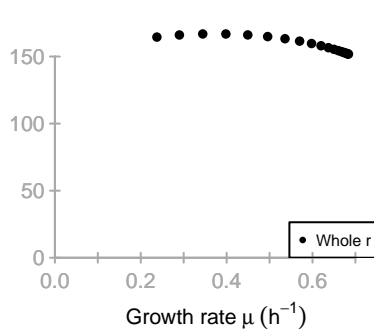
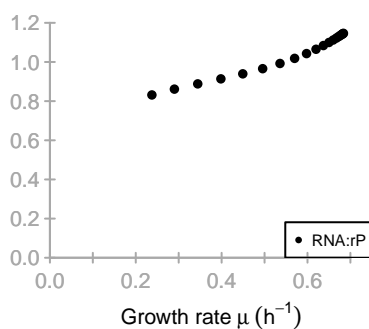
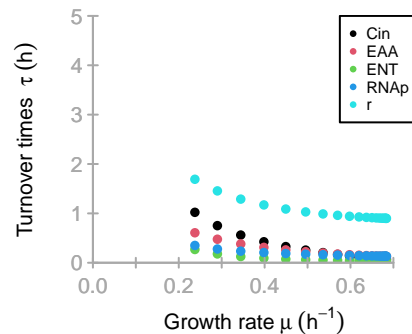
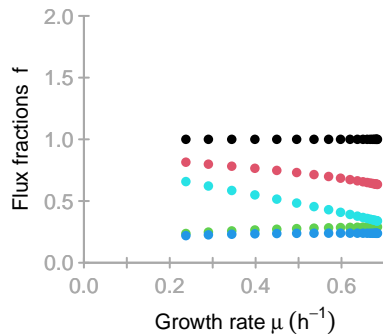
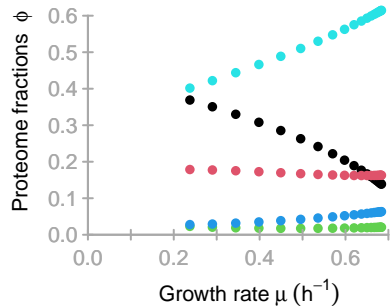
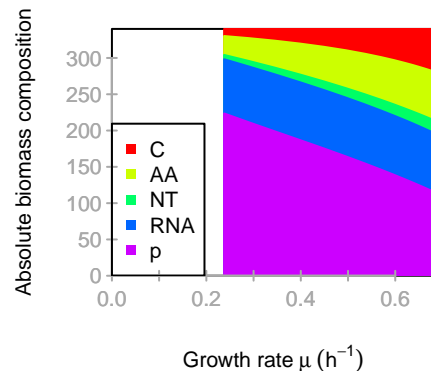
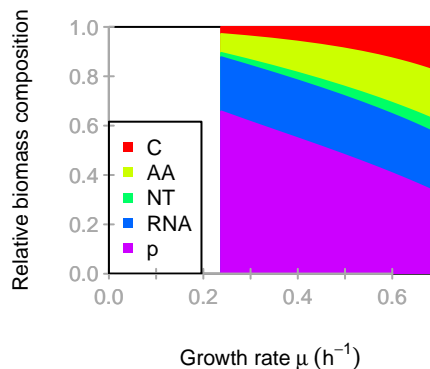
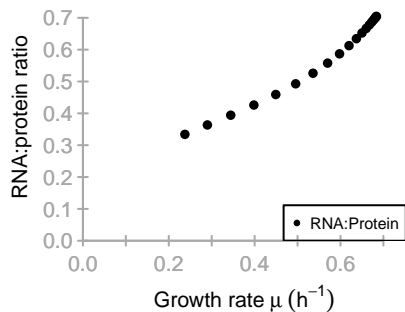


RNAp**r**Metabolite concentrations c^m (g/L)Protein concentrations p (g/L)Ribosome concentrations p (g/L)

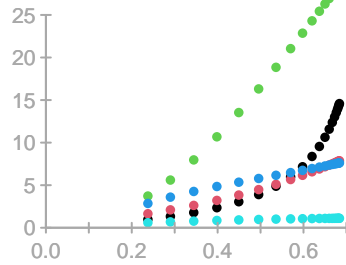
RNA:rP ratio





Apparent turnover numbers k_{app} (h^{-1})

Growth rate μ (h^{-1})



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

	Cin	EAA	ENT	RNAp	r
[1,]	0.01	0	0	0	0
[2,]	43	43	43	0	0
[3,]	0	68	68	0	68
[4,]	0	0	71	71	0
[5,]	0	0	0	81	0
[6,]	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

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

Keq

[1,]	[,1]	[,2]	[,3]	[,4]	[,5]
	12900	4.94186046511628	0.0728454172366621	Inf	Inf