RNAp

Proteome fraction ϕ

Growth rate μ (h^{-1})

DNAp

Proteome fraction ϕ

Growth rate μ (h^{-1})

r

Proteome fraction ϕ

Growth rate μ (h^{-1})

Metabolite concentrations c^m (g/L)

Growth rate μ (h^{-1})

Legend: C, I, AA, NT, ADP, ATP, RNA, DNA
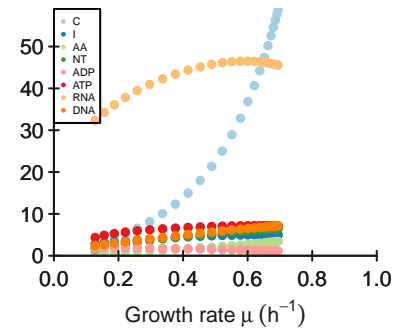
Protein concentrations p (g/L)

Growth rate μ (h^{-1})

Legend: tC, FERM, W, RESP, ADPS, EAA, ENT, RNAp, DNAp, r

Proteome fractions ϕ

Growth rate μ (h^{-1})

Legend: tC, FERM, W, RESP, ADPS, EAA, ENT, RNAp, DNAp, r

Flux fractions f

Growth rate μ (h^{-1})

Turnover times τ (h)

Growth rate μ (h^{-1})

Legend: tC, FERM, W, RESP, ADPS, EAA, ENT, RNAp, DNAp, r
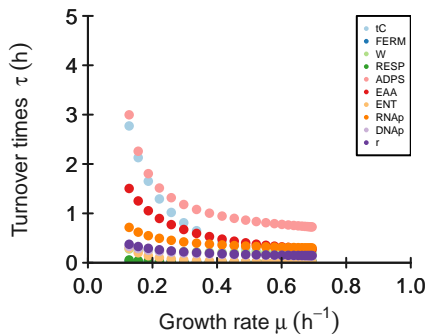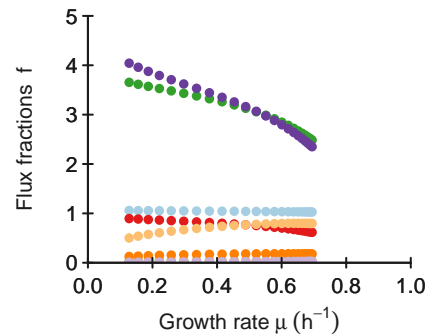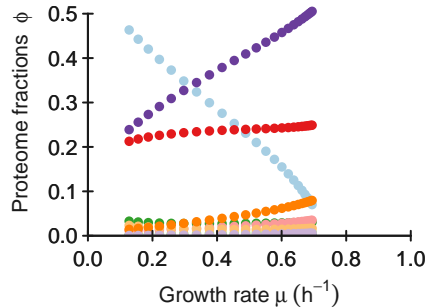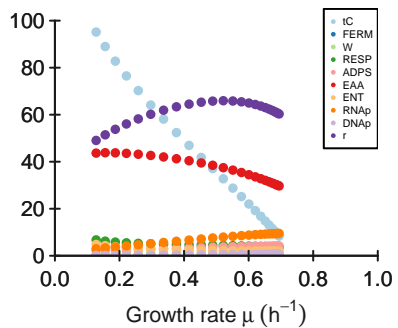
Apparent turnover numbers k_{app} (h^{-1})
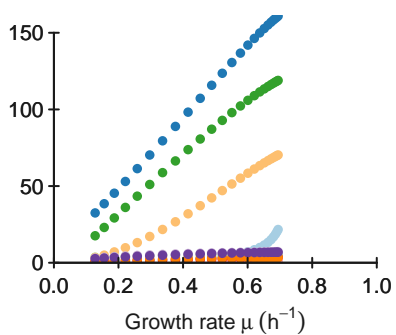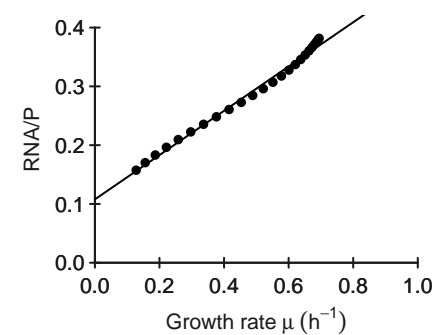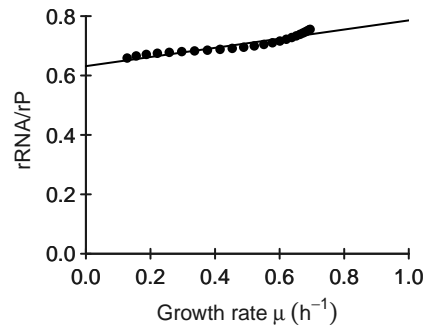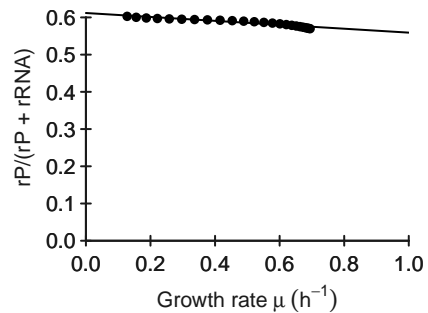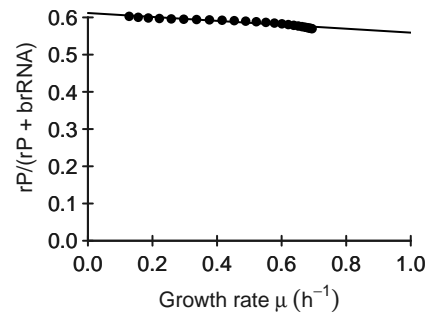
Growth rate μ (h^{-1})

RNA/P

RNA/P

Growth rate μ (h^{-1})
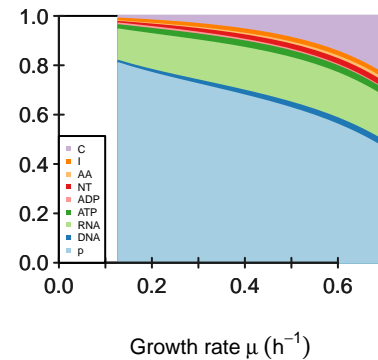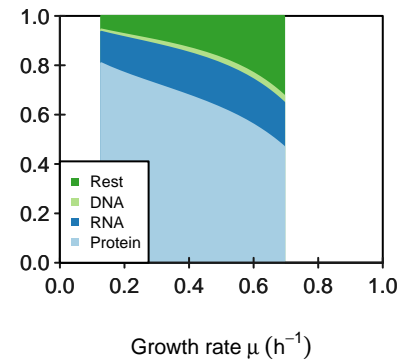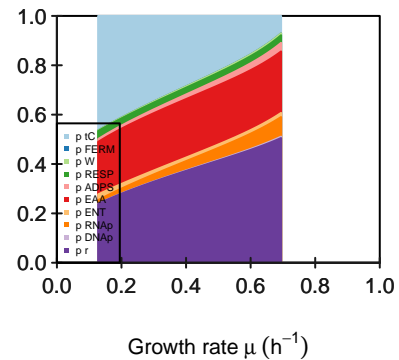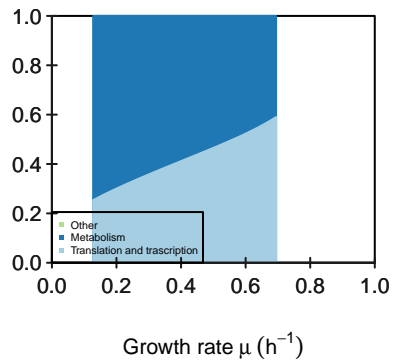
keep_ribosome_kcat FALSE
keep_transport_kcat FALSE
maintenance_fun constant

M

	tC	FERM	W	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
C	1	−0.2	0	−0.019	0	−1	−0.167	0	0	0
I	0	0	−1	0.019	0	0	0	0	0	0
AA	0	0	0	0	0	1	−0.167	0	0	−0.2
NT	0	0	0	0	−1	0	0.334	−1	−1	0
ADP	0	−0.8	0	−0.981	1	0	0.666	0	0	0.8
ATP	0	0.8	0	0.981	0	0	−0.666	0	0	−0.8
RNA	0	0	0	0	0	0	0	1	0	0
DNA	0	0	0	0	0	0	0	0	1	0
p	0	0	0	0	0	0	0	0	0	0.2

K

	tC	FERM	W	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
x_C	0.1	0	0	0	0	0	0	0	0	0
x_W	0	10	10	5	0	0	0	0	0	0
C	28	10	0	5	0	10	10	0	0	0
I	0	0	5	0	0	0	0	0	0	0
AA	0	0	0	0	0	1	1	0	0	1
NT	0	0	0	0	1	0	1	1	1	0
ADP	0	1	0	0.5	1	0	1	0	0	0
ATP	0	1	0	0.5	0	0	1	0	0	1
RNA	0	0	0	0	0	0	0	0	0	0
DNA	0	0	0	0	0	0	0	0	0	0
p	0	0	0	0	0	0	0	0	0	0

KA

	tC	FERM	W	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
x_C	0	0	0	0	0	0	0	0	0	0
x_W	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0
I	0	0	0	0	0	0	0	0	0	0
AA	0	0	0	0	0	0	0	0	0	0
NT	0	0	0	0	0	0	0	0	0	0
ADP	0	0	0	0	0	0	0	0	0	0
ATP	0	0	0	0	0	0	0	0	0	0
RNA	0	0	0	0	0	0	0	0	0	40
DNA	0	0	0	0	0	0	0	4	4	0
p	0	0	0	0	0	0	0	0	0	0

kcat

	tC	FERM	W	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
kcatf	29	534	10	267	2	7	129	6	13	19
kcatb	3	53	1	27	1	1	13	0	0	0

Keq

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]
[1,]	2706.66666666667	10.0754716981132	20	1.97777777777778	2	0.7	0.992307692307692	Inf	Inf	Inf

phi input

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]
[1,]	0.065	0.03	0.005	0.035	0.003	0.248	0.032	0.119	0.003	0.46

average saturation input

3

minimal phi constraint

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]
[1,]	0	0	0	0	0	0	0	0	0	0

minimal f constraint

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]
[1,]	0	0	0	0	0	0	0	0	0	0