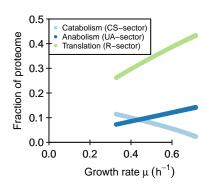
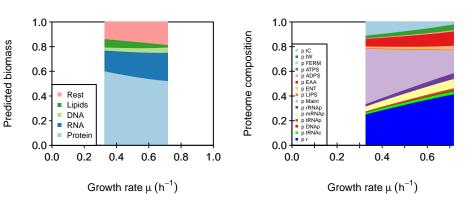
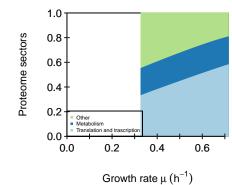


Proteome sectors







	tC	tW	FERM	ATPS	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
С	1	0	-0.2	0	0	-0.5	-0.167	0	0	Ö	Ö	0	Ö	0	0
AA	0	0	0	0	0	1	-0.167	0	0	0	0	0	0	-0.01	0
NT	0	0	0	0	-1	0	0.334	0	0	-1	-1	-1	-1	0	0
ADP	0	0	-0.8	-0.98	1	0	0.666	0.82	1	0	0	0	0	0.05	0.05
ATP	0	0	0.8	0.98	0	0	-0.666	-0.82	-1	0	0	0	0	-0.05	-0.05
CI1	0	-1	0.2	-0.02	0	-0.5	0	-0.18	0	0	0	0	0	0	0
LIP	0	0	0	0	0	0	0	0.18	0	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
mRNA	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
tRNA	0	0	0	0	0	0	0	0	0	0	0	1	0	-0.94	0.94
DNA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
TC	0	0	0	0	0	0	0	0	0	0	0	0	0	0.95	-0.95
р	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01

	tC	tW	FERM	ATPS	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
x_C	0.05	0	0	0	0	0	0	0	0	Ō	0	Ō	Ō	0	0
x_W	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
x_W x_CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
С	0	0	4	3.6	0	4	4	0	0	0	0	0	0	0	0
AA	0	0	0	0	0	0	4	0	0	0	0	0	0	4	0
NT	0	0	0	0	4	0	0	0	0	4	4	4	4	0	0
ADP	0	0	1	0.9	0	0	0	0	0	0	0	0	0	0	0
ATP	0	0	0	0	0	0	3	3	3	0	0	0	0	3	3
CI1	0	2	0	0	0	2	0	2	0	0	0	0	0	0	0
LIP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
DNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
р	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	tC	tW	FERM	ATPS	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
x_C	0	0	0	0	0	0	0	0	0.005	0	0	0	0	0	0
x_W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ADP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CI1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LIP	60	60	0	0	0	0	0	0	0	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
mRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
tRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DNA	0	0	0	0	0	0	0	0	0	8	8	8	8	0	0
TC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
р	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

kcat

	tC	tW	FERM	ATPS	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
kcatf	1126	10	4710	471	12	14	152	58	68	9	1	9	15	10310	626
kcatb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Keq

[1,]	[,1] Inf	[,2] Inf	[,3] Inf	[,4] Inf	[,5] Inf	[,6] Inf	[,7] Inf	[,8] Inf	[,9] Inf	[, 10] Inf	[, 11] Inf	[, 12] Inf	[, 13] Inf	[,14] Inf	[, 15] Inf	

phi input

[1,]	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]	[,14]	[,15]
	0.002	0.02	0.041	0.046	0.005	0.165	0.023	0.031	0.287	0.0426	0.0213	0.0071	0.002	0.023	0.284

average saturation input

minimal phi constraint

[1,]

[,4] [,5] [,6] 0 0 0

]			
١			

[,7]	[,8]	[,9]	[,10]	[,11]	[,12]
0	0	0	0	0	0

minimal f constraint

[,7] [,8] [,9] [,10] [,11] [,12] 0 0 8 0 0 0

-	-	• •	-	-	_	-	•	•	_	-	-	•	•	_	 -

[,1] [,2] [,3] [,4] [,5] [,6] 0 0 0 0

[1,]