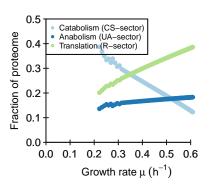
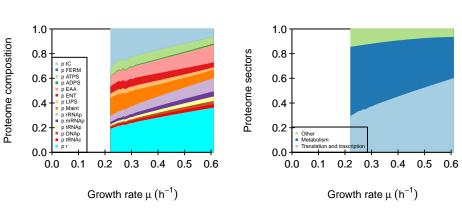


#### Proteome sectors





	tC	FERM	ATPS	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
С	1	-0.2	-0.1	0	0	-0.167	0	0	0	Ō	0	Ō	0	0
I	0	0.1	0.1	0	-1	0	-0.18	0	0	0	0	0	0	0
AA	0	0	0	0	1	-0.167	0	0	0	0	0	0	-0.01	0
NT	0	0	0	-1	0	0.334	0	0	-1	-1	-1	-1	0	0
ADP	0	-0.8	-0.9	1	0	0.666	0.82	1	0	0	0	0	0.05	0.05
ATP	0	0.8	0.9	0	0	-0.666	-0.82	-1	0	0	0	0	-0.05	-0.05
LIP	0	0	0	0	0	0	0.18	0	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	0	1	0	0	0	0	0
mRNA	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	1	0	-0.94	0.94
DNA	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	0.95	-0.95
р	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01

	tC	FERM	ATPS	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
x_C	0.03	0	0	0	0	0	0	0	Ō	Ö	Ö	Ö	0	0
x_W	0	5	0	0	0	0	0	0	0	0	0	0	0	0
С	1	0.5	0.1	0	0	1	0	0	0	0	0	0	0	0
- 1	0	2	2	0	1	0	1	0	0	0	0	0	0	0
AA	0	0	0	0	3	1	0	0	0	0	0	0	1	0
NT	0	0	0	1	0	3	0	0	4	4	4	4	0	0
ADP	0	1	1	1	0	3	1	5	0	0	0	0	3	3
ATP	0	3	3	0	0	2	2	1	0	0	0	0	1	1
LIP	0	0	0	0	0	0	5	0	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	0	1	0	0	0	0	0
mRNA	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	1	0	5	5
DNA	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	5	5
р	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	tC	FERM	ATPS	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
x_C	0	0	0	0	0	0	0	0.005	Ō	0	Ō	0	0	0
x_W	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
- 1	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
NT	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
ATP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LIP	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	50
mRNA	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
DNA	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
р	0	0	0	0	0	0	0	0	0	0	0	0	0	0

### kcat

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]	[,14]
kcatf	200	1500	500	8	7	78	33	50	5	3	5	8	10000	1000
kcatb	20	150	50	1	1	8	3	0	0	0	0	0	0	0

# Keq

	[,1]	[,2]	<b>[,3]</b> 600	[,4]	[,5]	<b>[,6]</b> 43.875	<b>[,7]</b> 27.5	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]	[,14]
[1,]	333.33333333333	600	600	8	21	43.875	27.5	Inf	Inf	Inf	Inf	Inf	Inf	Inf

# minimal phi constraint

	u	•	•	

[,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13] [,14] 0 0 0 0 0 0 0

[1,]

[,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13] [,14] 0 0 0 0 0 0 0



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

[1,]