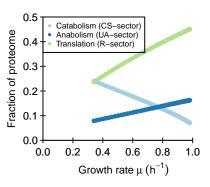


8.0

0.6

0.4

#### Proteome sectors



	tC	CCM	FERM	ATPS	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
С	1	-1	-0.04	-0.02	0	0	-0.167	0	0	0	0	Ō	Ō	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	-0.96	-0.98	1	0	0.666	0.82	1	0	0	0	0	0.05	0.05
ATP	0	0	0.96	0.98	0	0	-0.666	-0.82	-1	0	0	0	0	-0.05	-0.05
CI1	0	1	0	0	0	-1	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	CCM	FERM	ATPS	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
x_C	0.02	0	0	0	0	0	0	0	0	0	Ö	Ö	Ö	0	0
x_W	0	0	10	10	0	0	0	0	0	0	0	0	0	0	0
С	5	1	0.2	0.8	0	0	1	0	0	0	0	0	0	0	0
AA	0	0	0	0	0	5	1	0	0	0	0	0	0	6	0
NT	0	0	0	0	1	0	10	0	0	4	4	4	6	0	0
ADP	0	0	0.2	0.8	1	0	1	1	0	0	0	0	0	0	0
ATP	0	0	10	10	0	0	3	3	3	0	0	0	0	3	3
CI1	0	10	0	0	0	1	0	1	0	0	0	0	0	0	0
LIP	0	0	0	0	0	0	0	15	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	1	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	2
р	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	tC	CCM	FERM	ATPS	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
x_C	0	0	0	0	0	0	0	0	0.002	Ō	0	Ō	0	0	0
x_W	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	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	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

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]	[,14]	[,15]	
kcatf	1000	100	2000	2000	14	12	150	73	81	15	10	15	16	10000	700	
kcath	100	10	200	200	1	1	15	7	Λ	Λ	Λ	Λ	Λ	0	Λ	

# Keq

[1,]	[, <b>1</b> ]	<b>[,2]</b>	<b>[,3]</b>	<b>[,4]</b>	<b>[,5]</b>	<b>[,6]</b>	<b>[,7]</b>	<b>[,8]</b>	<b>[,9]</b>	<b>[,10]</b>	[, <b>11]</b>	<b>[,12]</b>	<b>[,13]</b>	<b>[,14]</b>	<b>[,15]</b>
	2500	100	25000	1562.5	14	60	33.333333333333	52.1428571428571	Inf	Inf	Inf	Inf	Inf	Inf	Inf

## minimal phi constraint

[1,]

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

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

### minimal f constraint

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[,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13] 0 0 0 0 0 0 0 0 0 0 0 0



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