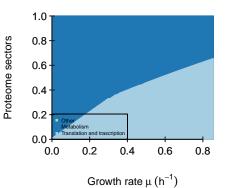
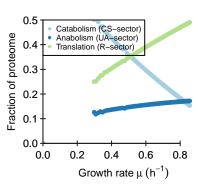


#### **Proteome sectors**





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

	tC	FERM	ATPS	ADPS	EAA	ENT	LIPS	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
x_C	0.05	0	0	0	0	0	0	Ō	Ō	Ō	Ō	0	0
x_W	0	5	0	0	0	0	0	0	0	0	0	0	0
С	1	1	0.5	0	0	1	0	0	0	0	0	0	0
I	0	2	2	0	1	0	1	0	0	0	0	0	0
AA	0	0	0	0	3	1	0	0	0	0	0	1	0
NT	0	0	0	1	0	3	0	4	4	4	4	0	0
ADP	0	1	1	1	0	3	1	0	0	0	0	3	3
ATP	0	3	3	0	0	2	2	0	0	0	0	1	1
LIP	0	0	0	0	0	0	5	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	1	0	0	0	0	0
mRNA	0	0	0	0	0	0	0	0	1	0	0	0	0
tRNA	0	0	0	0	0	0	0	0	0	1	0	5	5
DNA	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	5	5
р	0	0	0	0	0	0	0	0	0	0	0	0	0

	tC	FERM	ATPS	ADPS	EAA	ENT	LIPS	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
x_C	0	0	0	0	0	0	0	Ō	Ō	Ō	Ō	0	0
x_W	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
I	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
NT	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
ATP	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
rRNA	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	3
tRNA	0	0	0	0	0	0	0	0	0	0	0	0	0
DNA	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
р	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]
kcatf	700	1000	100	14	12	220	73	15	10	15	16	15000	900
kcatb	70	100	10	1	1	22	7	0	0	0	0	0	0

# Keq

[1,]	<b>[,1</b> 20	] [, <del>_</del> ]	<b>[,3]</b> 120	<b>[,4]</b> 14	<b>[,5]</b> 36	<b>[,6]</b> 45	<b>[,7]</b> 26.0714285714286	<b>[,8]</b> Inf	<b>[,9]</b> Inf	<b>[,10]</b> Inf	[, <b>11]</b> Inf	[, <b>12]</b> Inf	<b>[,13]</b> Inf

## minimal phi constraint

	[.1]	ſ. <b>2</b> 1	ſ. <b>3</b> 1	[.4]	ſ. <b>5</b> 1	ſ. <b>6</b> 1	[.7]	<b>[.81</b>	ſ. <b>9</b> 1	[,10]	[.11]	[.12]	ſ.13 <b>1</b>
[1,]	Ö	Ö	Ö	Ō	Ö	Ö	Ö	Ö	Ō	Ö	Ö	Ö	Ö

#### minimal f constraint

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