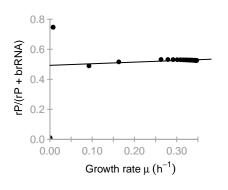
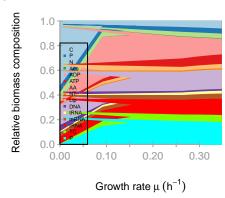
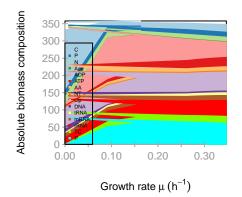
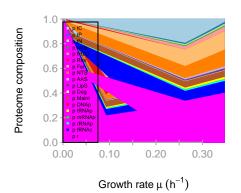


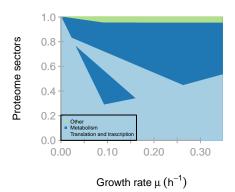
Protein mass fraction in ribosome

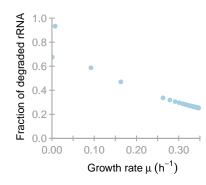












	tC	tP	tN	tAce	tH2O	Res	Fer	NTS	AAS	LipS	Deg	Maint	DNAp	tRNAp	mRNAp	rRNAp	tRNAc	r
С	1	0	0	0	0	-0.2	-0.3	-0.5	-0.76	-0.8	ŏ	0	Ō	Ö	Ö	Ö	0	0
Р	0	1	0	0	0	-0.1	-0.1	-0.2	0	-0.1	0	0	0	0	0	0	0	0
N	0	0	1	0	0	-0.1	-0.1	-0.2	-0.24	-0.1	0	0	0	0	0	0	0	0
Ace	0	0	0	-1	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0
H2O	0	0	0	0	1	-0.1	-0.1	0	0	0	0	0	0	0	0	0	0	0
ADP	0	0	0	0	0	-0.5	-0.4	0.1	0	0	0	1	0	0	0	0	0.1	0.1
ATP	0	0	0	0	0	1	0.8	-0.1	0	0	0	-1	0	0	0	0	-0.1	-0.1
AA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	-0.2	0
NT	0	0	0	0	0	0	0	0.9	0	0	1	0	-1	-1	-1	-1	0	0
Lip	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
DNA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
tRNA	0	0	0	0	0	0	0	0	0	0	-0.1	0	0	1	0	0	-0.7	0.1
mRNA	0	0	0	0	0	0	0	0	0	0	-0.1	0	0	0	1	0	0	0
rRNA	0	0	0	0	0	0	0	0	0	0	-0.8	0	0	0	0	1	0	0
TC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	-0.9
P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8

	tC	tP	tN	tAce	tH2O	Res	Fer	NTS	AAS	LipS	Deg	Maint	DNAp	tRNAp	mRNAp	rRNAp	tRNAc	r
x_C	1	0	0	0	0	0	0	0	0	0	Ō	0	0	0	0	0	0	0
x_P	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_N	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_Ace x_H2O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_H2O	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	10	8	5	4	5	0	0	0	0	0	0	0	0
P	0	0	0	0	0	5	3	2	3	4	0	0	0	0	0	0	0	0
N	0	0	0	0	0	5	3	1	2	3	0	0	0	0	0	0	0	0
Ace	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
H2O	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0
ADP	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0
ATP	0	0	0	0	0	0	0	1	2	0	0	2	0	0	0	0	4	5
AA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
NT	0	0	0	0	0	0	0	0	0	0	0	0	5	3	1	2	0	0
Lip	0	0	0	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	0	0	0	0	0	0	0	0	0
tRNA	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5	0
mRNA	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
TC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Р	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	tC	tP	tN	tAce	tH2O	Res	Fer	NTS	AAS	LipS	Deg	Maint	DNAp	RNAp	mRNAp	rRNAp	tRNAc	r
x_C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_Ace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_H2O	0	0	0	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	0	0	0
P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ace H2O ADP	0	0	0	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	0	0	0
ATP	0	0	0	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	0	0	0
NT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lip	0	0	0	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	0	0	0	10	10	10	10	0	0
tRNA	0	0	0	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	0	0	3
rRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
TC	0	0	0	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	0	0	0

kcat

kcatf	[,1] 60	[,2] 60	[, 3] 60	[, 4] 60	[,5] 1000	[,6] 10	[,7] 15	[,8] 10	[,9] 15	[, 10] 40	[, 11] 50	[, 12] 10	[, 13] 200	[,14] 136	[, 15] 96	[, 16] 136	[,17] 20	[,18] 4.55	

Keq

[1,]	[,1] 10	[,2] 10	[,3] 10	[,4] 10	[,5] 100	[,6] 0.008	[, 7] 0.041666666666666	[, 8] 1	[,9] 1.875	[,10] 0.16666666666667	[,11] Inf	[,12] Inf	[,13] Inf	[, 14] Inf	[,15] Inf	[,16] Inf	[,17] Inf	[,18] Inf

minimal	phi	constraint	
---------	-----	------------	--

[,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13] [,14] [,15] [,16] [,17] [,18] 0 0 0 0 0.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[1,]

"	13	LI	an	ıι	