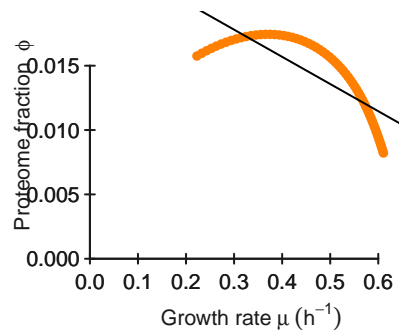
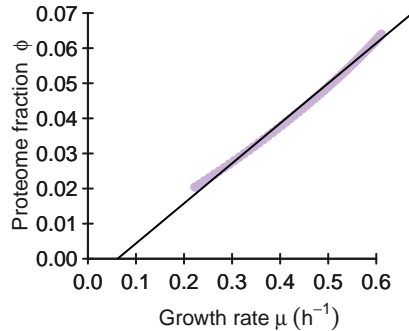
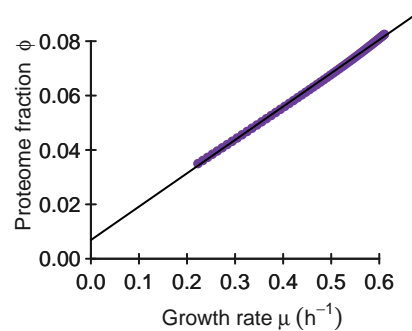
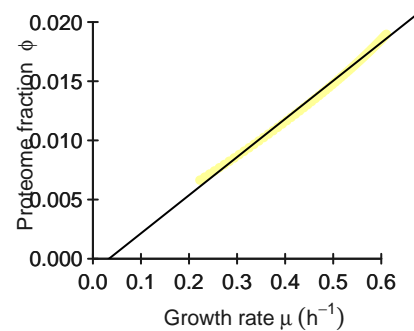
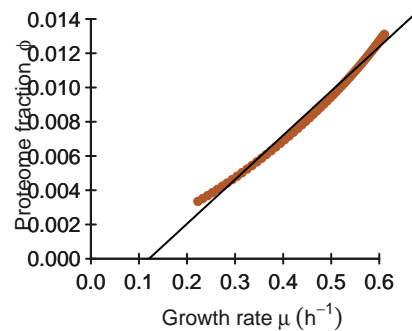
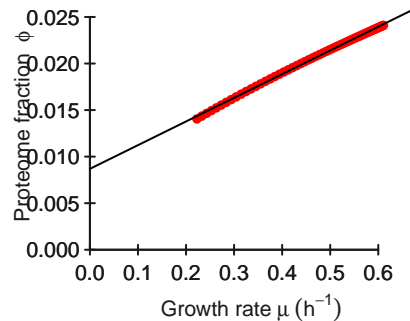
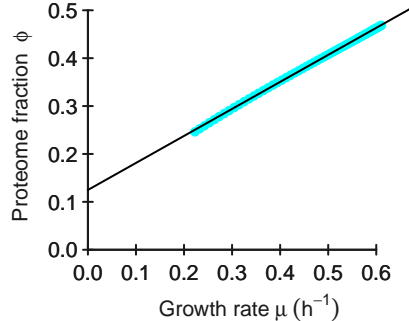
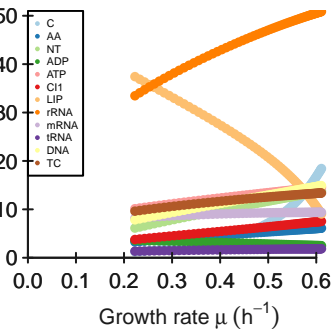
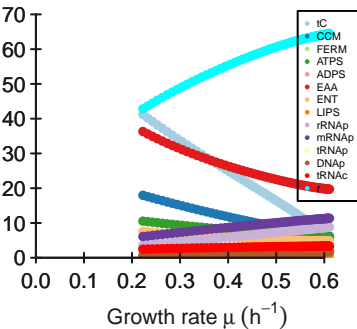
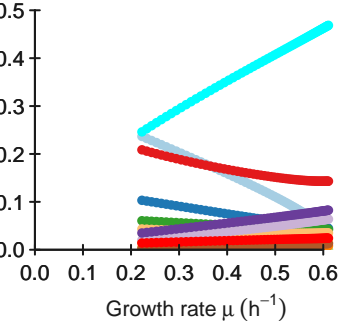
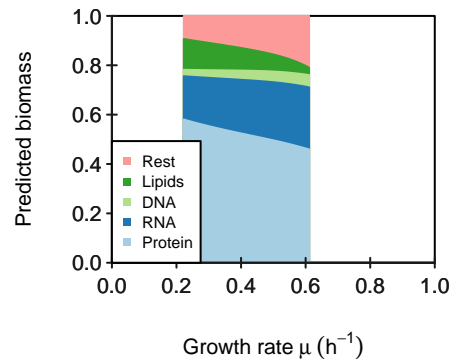
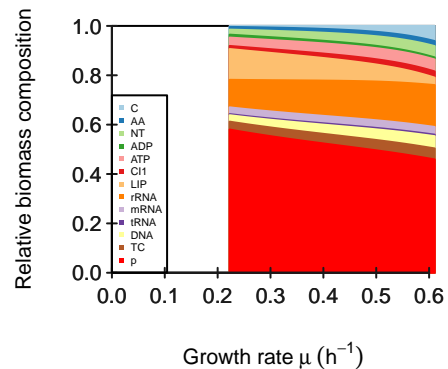
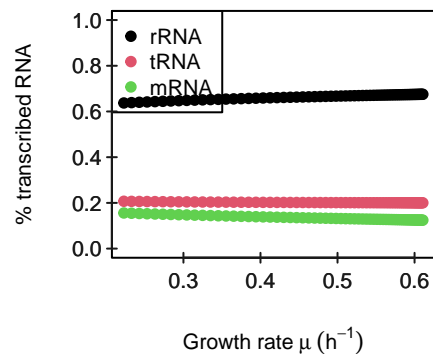
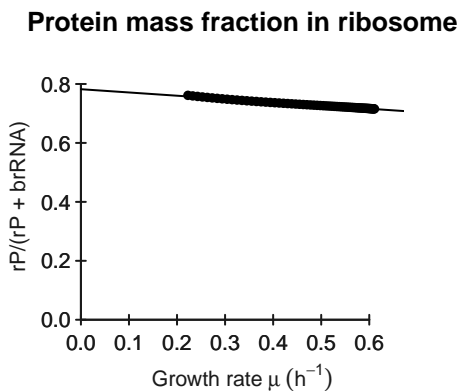
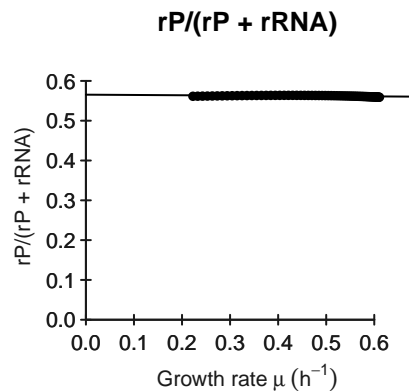
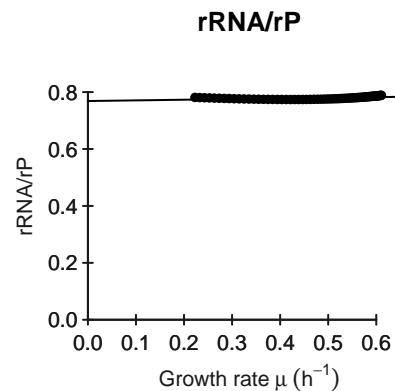
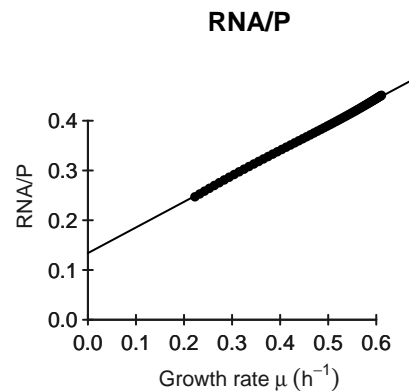
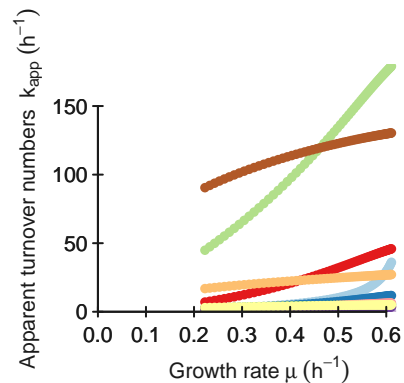
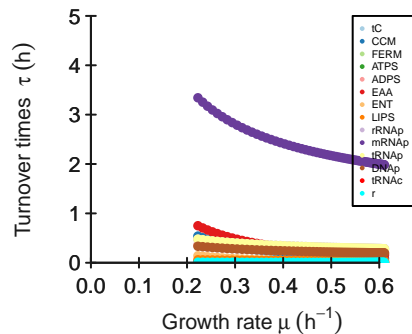
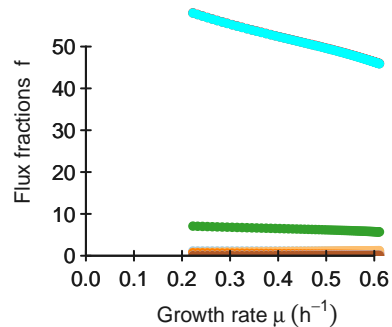
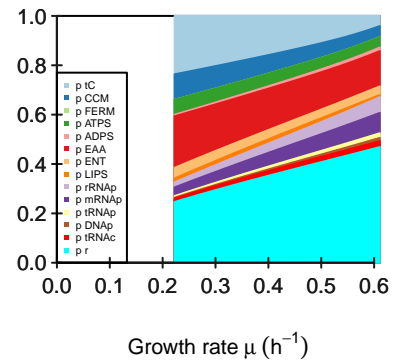


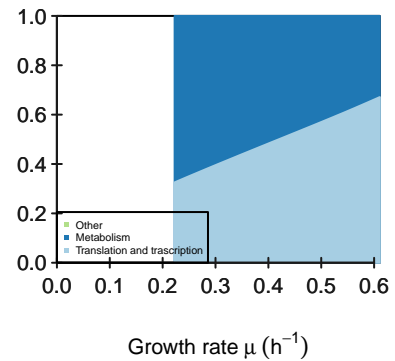
LIPs**rRNAp****mRNAp****tRNAp****DNAp****tRNAc****r**Metabolite concentrations c^m (g/L)Protein concentrations p (g/L)Proteome fractions ϕ 



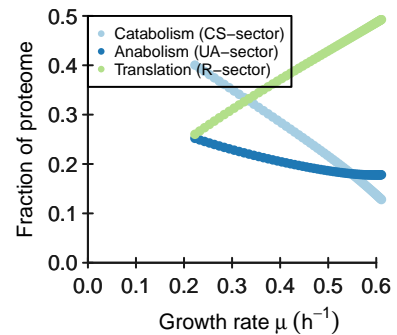
Proteome composition



Proteome sectors



Proteome sectors



M

[illegible]

K

[illegible]

KA[illegible]

kcat

	tC	CCM	FERM	ATPS	ADPS	EAA	ENT	LIPS	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
kcatf	734	20	3320	332	9	10	109	41	7	1	7	10	7351	446
kcatb	73	2	332	33	1	1	11	4	0	0	0	0	0	0

Keq

[1,]	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]	[,14]
2010.95890410959	10	75	16.7676767676768	4.5	13.75	6.8125	158.875	Inf	Inf	Inf	Inf	Inf	Inf	Inf

phi input

	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	
	0.0575035063113605	0.0364656381486676	0.00701262272089762	0.231416549789621	0.032258064516129	0.0434782608695652	0.0597475455820477	0.0298737727910238	0.00995792426367462	0.002805

average saturation input

3

minimal phi constraint

[1,]

$$\begin{bmatrix} 1 \\ 0 \end{bmatrix}$$
$$[2]_0$$
$$[,3]_0$$
$$[4]_0$$
$$[5]_0$$
$$[6]_0$$
$$[7]_0$$
$$[8]_0$$
$$[9]_0$$

[,10]

[1]

[;

1

minimal f constraint

[1,]

$$\begin{bmatrix} 1 \\ 0 \end{bmatrix}$$
$$[2]_0$$
$$[3]_0$$
$$[4]_0$$
$$[.5]_0$$
$$[6]_0$$
$$[7]_0$$
$$[8]_0$$
$$[9]_0$$

[10]
C

[1]

[;

1