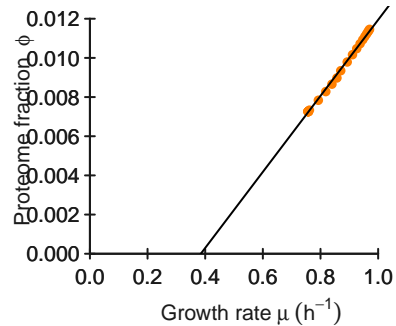
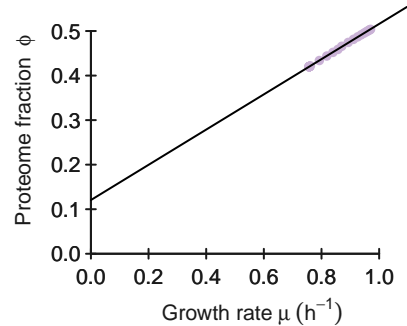


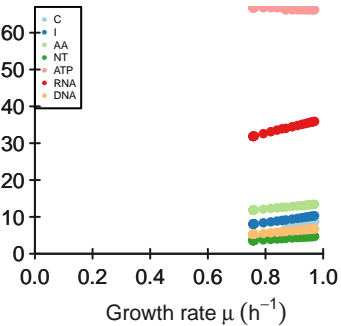
**DNAp**



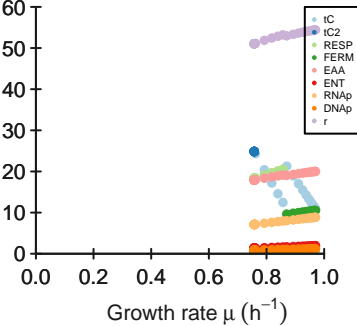
**r**



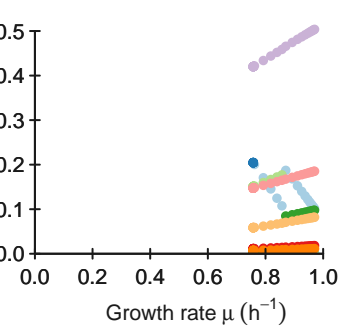
Metabolite concentrations  $c^m$  (g/L)



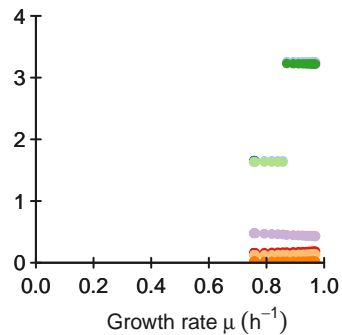
Protein concentrations  $p$  (g/L)



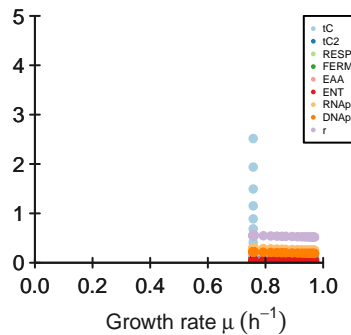
Proteome fractions  $\phi$



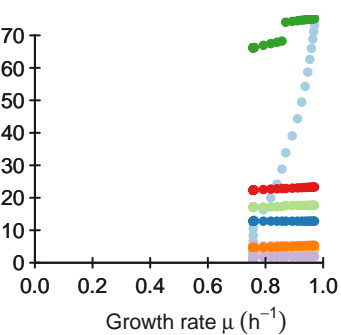
Flux fractions  $f$



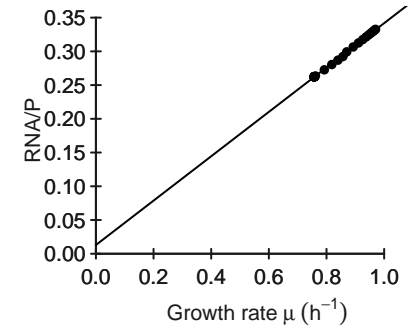
Turnover times  $\tau$  (h)



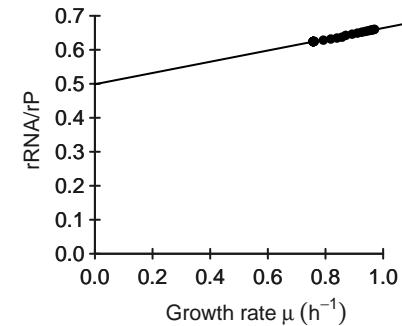
Apparent turnover numbers  $k_{app}$  ( $\text{h}^{-1}$ )



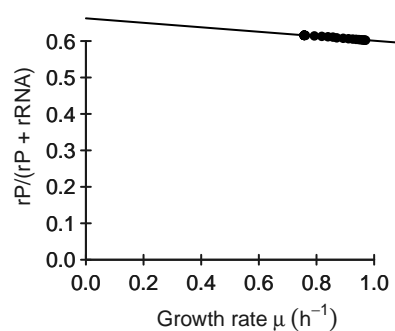
**RNA/P**



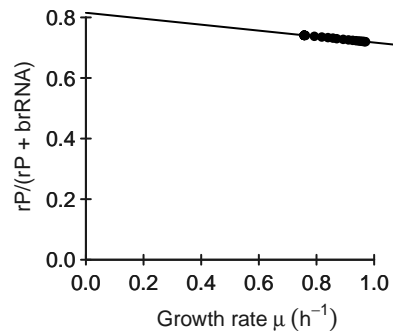
**rRNA/rP**



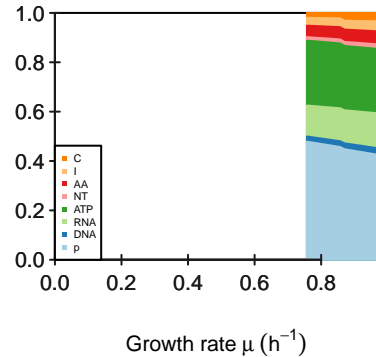
**$rP/(rP + rRNA)$**



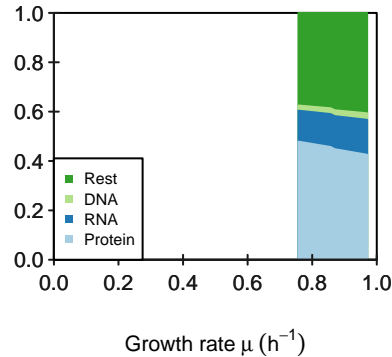
**Protein mass fraction in ribosome**



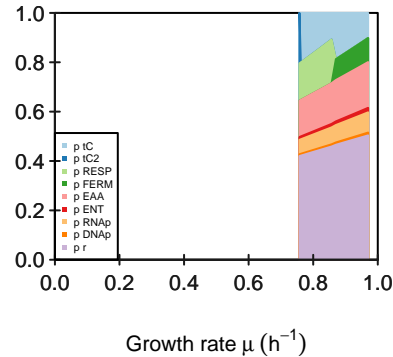
**Relative biomass composition**



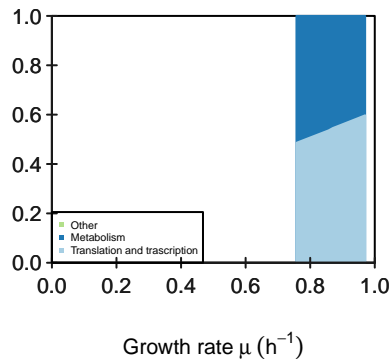
**Predicted biomass**



**Proteome composition**



**Proteome sectors**



keep\_ribosome\_kcat FALSE  
keep\_transport\_kcat FALSE  
maintenance\_fun constant





**KA**[illegible]





**Keq**

<b>[1,]</b>	<b>[,1]</b> Inf	<b>[,2]</b> Inf	<b>[,3]</b> Inf	<b>[,4]</b> Inf	<b>[,5]</b> Inf	<b>[,6]</b> Inf	<b>[,7]</b> Inf	<b>[,8]</b> Inf	<b>[,9]</b> Inf
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## phi input

[1,]	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]
	0.06	0.005	0.065	0.004	0.248	0.035	0.119	0.003	0.461

**average saturation input**

3

### minimal phi constraint

[illegible]

### minimal f constraint

[illegible]