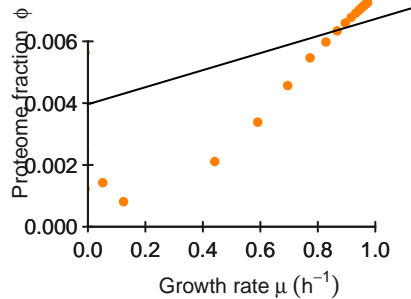
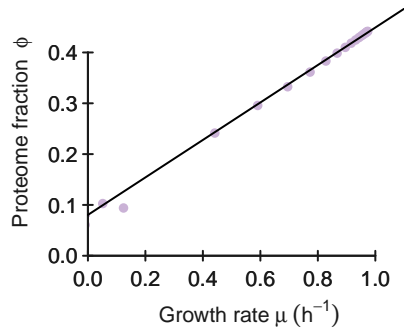


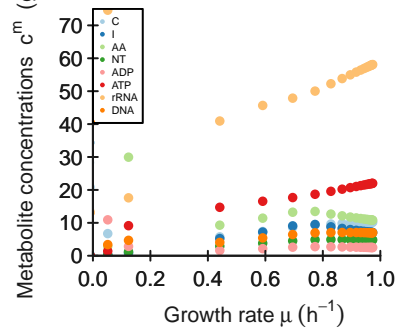
DNAp



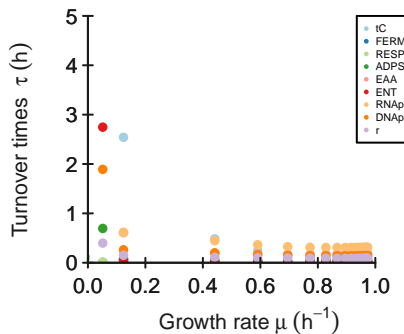
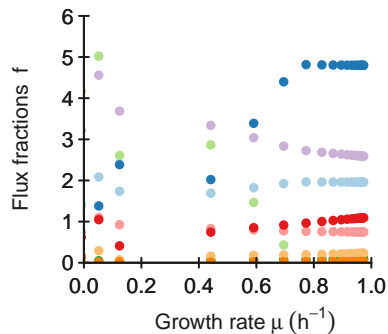
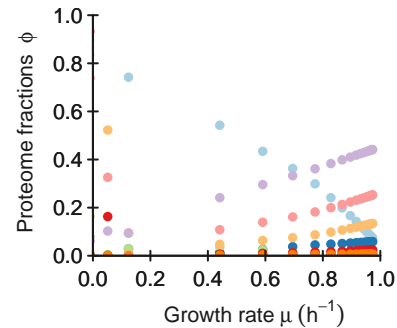
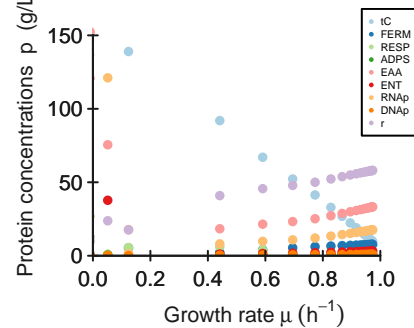
r



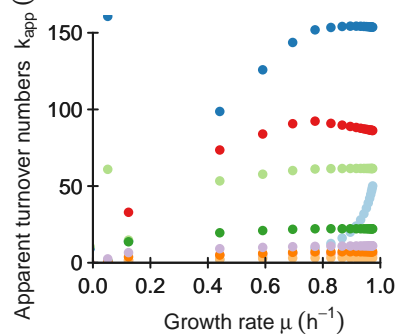
Metabolite concentrations c^m (g/L)



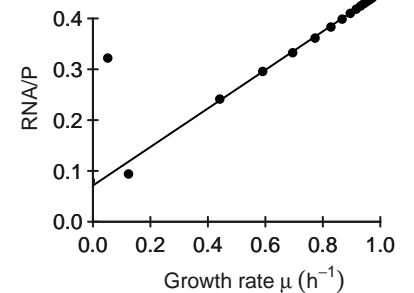
Protein concentrations p (g/L)



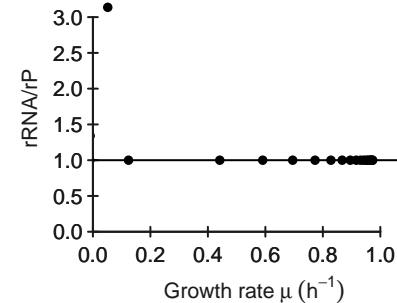
Apparent turnover numbers k_{app} (h^{-1})



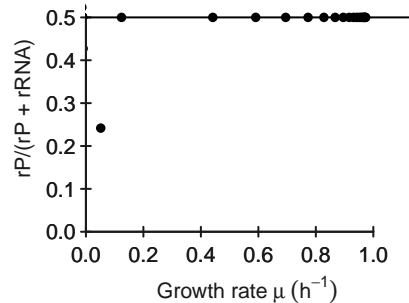
RNA/P



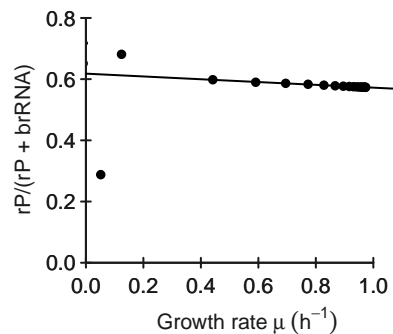
rRNA/rP



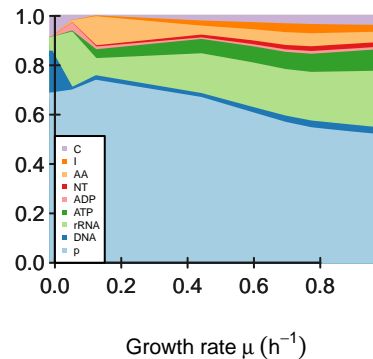
$rP/(rP + rRNA)$



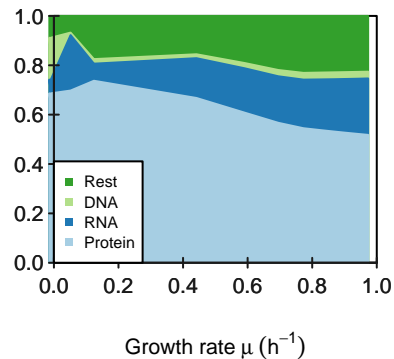
Protein mass fraction in ribosome



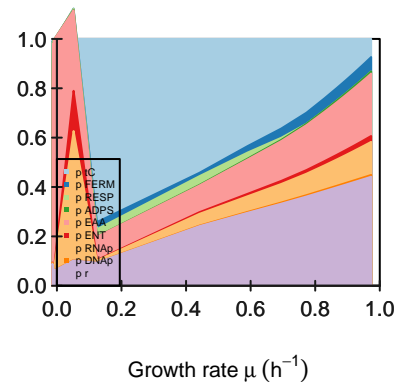
Relative biomass composition



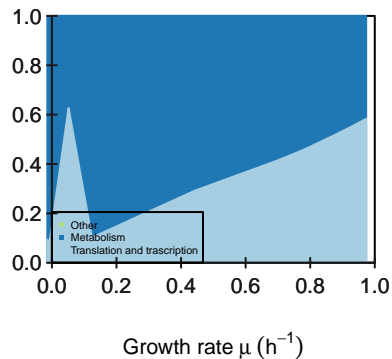
Predicted biomass



Proteome composition



Proteome sectors



keep_ribosome_kcat FALSE
keep_transport_kcat FALSE
maintenance_fun constant

M

[illegible]

K

[illegible]

kcat

| | tC | FERM | RESP | ADPS | EAA | ENT | RNAp | DNAp | r |
|-------|------|-------|------|------|-----|-------|------|------|----|
| kcatf | 55.7 | 384.1 | 76.8 | 27.3 | 7.4 | 149.1 | 6.3 | 13.7 | 20 |
| kcatb | 6 | 38 | 8 | 3 | 1 | 15 | 1 | 1 | 2 |

Keq

| | | | | | | | | | |
|-------------------|------------------|-------------|-------------|-------------|--------------------|-------------|-------------|------------------|-------------|
| [1,] | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] | [,7] | [,8] | [,9] |
| 92.83333333333333 | 12.6348684210526 | 60 | 9.1 | 3.7 | 0.8283333333333333 | 6.3 | 13.7 | 1.66666666666667 | |

phi input

| | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| [1,] | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] | [,7] | [,8] | [,9] |
| | 0.065 | 0.035 | 0.035 | 0.003 | 0.248 | 0.032 | 0.119 | 0.003 | 0.46 |

average saturation input

3

