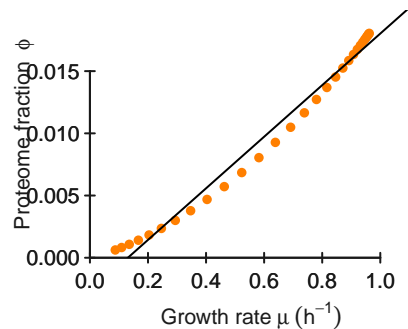
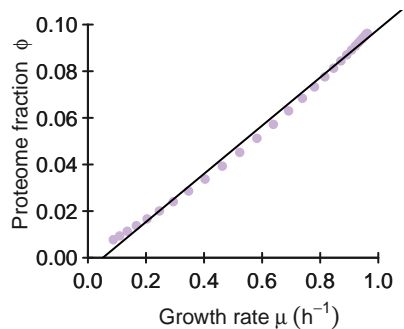


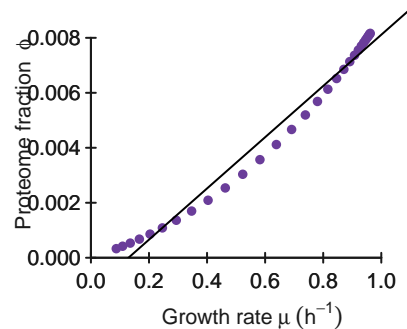
ENT



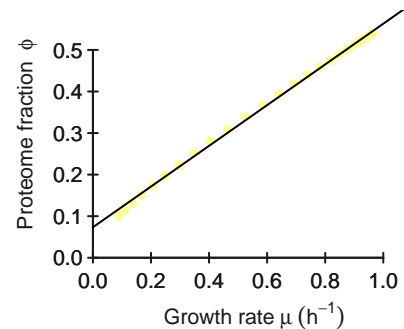
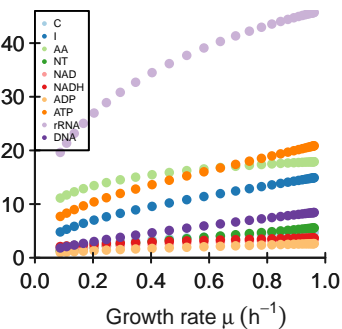
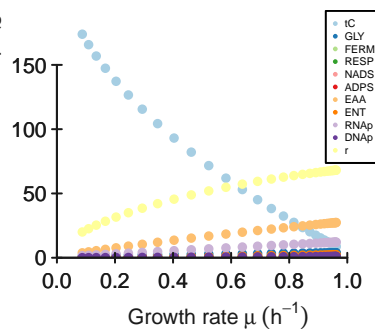
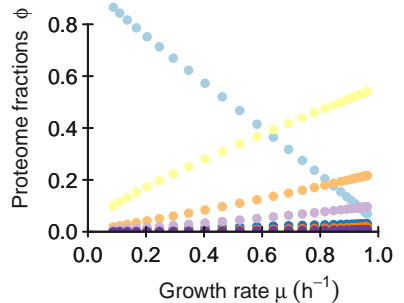
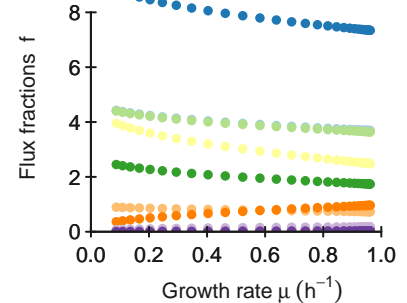
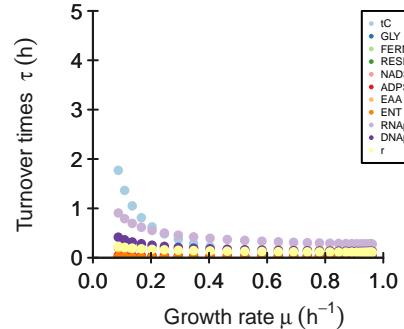
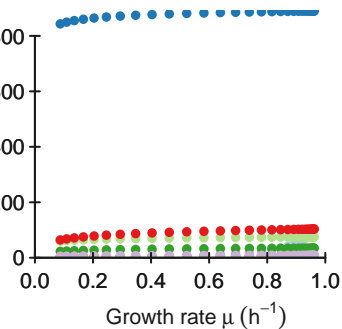
RNAp



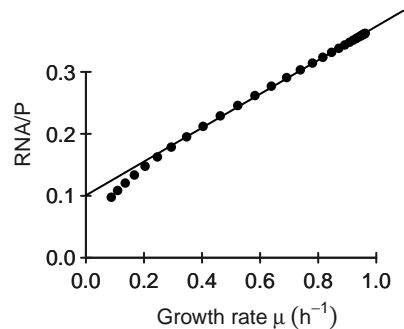
DNAp



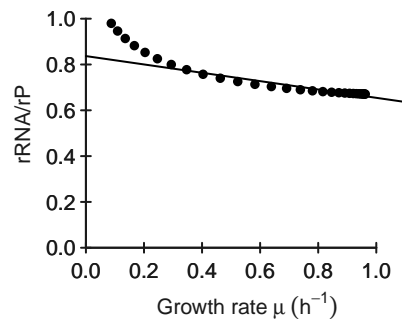
r

Metabolite concentrations c^m (g/L)Protein concentrations p (g/L)Proteome fractions ϕ Flux fractions f Turnover times τ (h)Apparent turnover numbers k_{app} (h^{-1})

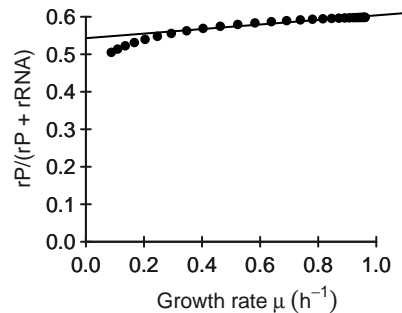
RNA/P



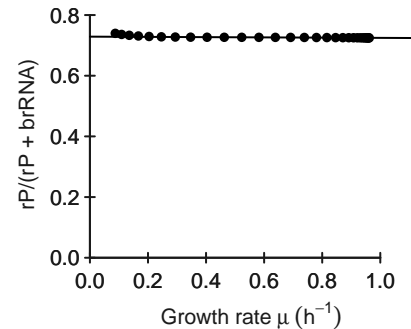
rRNA/rP



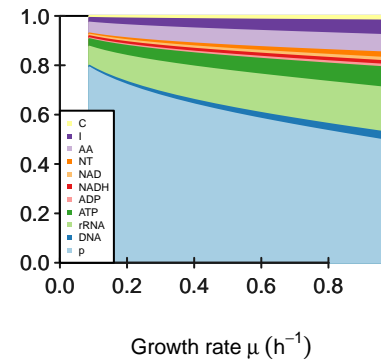
rP/(rP + rRNA)



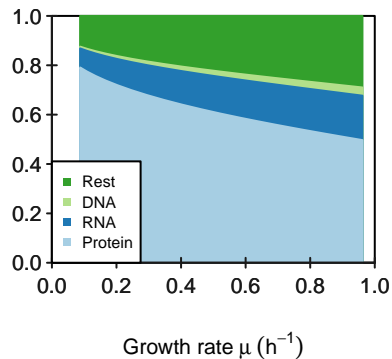
Protein mass fraction in ribosome



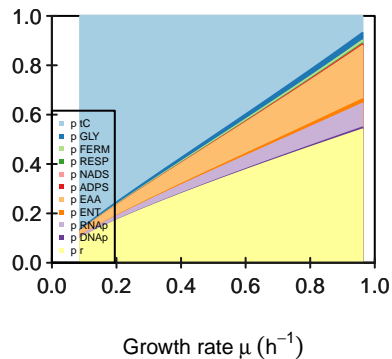
Relative biomass composition



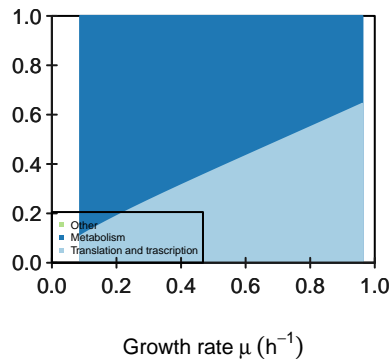
Predicted biomass



Proteome composition



Proteome sectors



keep_ribosome_kcat FALSE
keep_transport_kcat FALSE
maintenance_fun constant

M

[illegible]

K

[illegible]

KA[illegible]

Keq

| | | | | | | | | | | | |
|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|
| [1,] | [,1] Inf | [,2] Inf | [,3] Inf | [,4] Inf | [,5] Inf | [,6] Inf | [,7] Inf | [,8] Inf | [,9] Inf | [,10] Inf | [,11] Inf |
|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|

phi input

| | | | | | | | | | | | |
|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| [1,] | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] | [,7] | [,8] | [,9] | [,10] | [,11] |
| | 0.065 | 0.03 | 0.005 | 0.034 | 0.002 | 0.002 | 0.248 | 0.032 | 0.119 | 0.003 | 0.46 |

average saturation input

3

minimal phi constraint

| | | | | | | | | | | | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| [1,] | [,1] 0 | [,2] 0 | [,3] 0 | [,4] 0 | [,5] 0 | [,6] 0 | [,7] 0 | [,8] 0 | [,9] 0 | [,10] 0 | [,11] 0 |
|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|

minimal f constraint

| | | | | | | | | | | | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| [1,] | [,1] 0 | [,2] 0 | [,3] 0 | [,4] 0 | [,5] 0 | [,6] 0 | [,7] 0 | [,8] 0 | [,9] 0 | [,10] 0 | [,11] 0 |
|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|