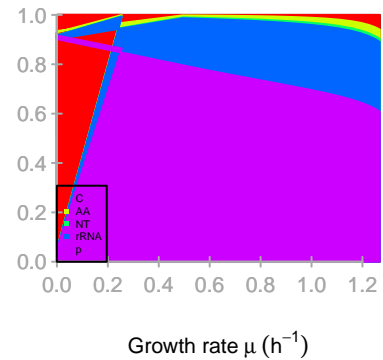
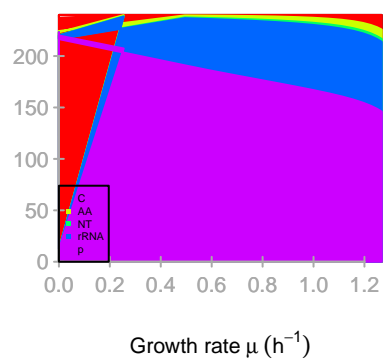


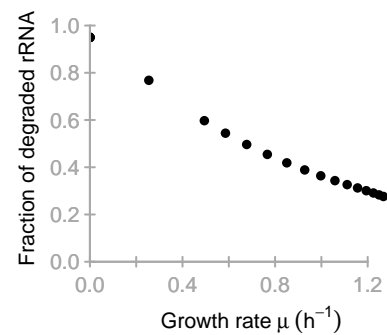
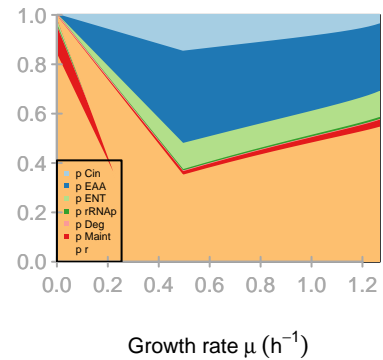
Relative biomass composition



Absolute biomass composition



Proteome composition



M

| | Cin | EAA | ENT | rRNAp | Deg | Maint | r |
|-------------|------------|------------|------------|--------------|------------|--------------|----------|
| C | 1 | -1 | -0.66 | -0.05 | 0 | 1 | 0 |
| AA | 0 | 1 | -0.34 | 0 | 0 | 0 | -1 |
| NT | 0 | 0 | 1 | -1 | 1 | -1 | 0 |
| rRNA | 0 | 0 | 0 | 0.95 | -1 | 0 | 0 |
| p | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

K

| | Cin | EAA | ENT | rRNAp | Deg | Maint | r |
|------|-----|-----|-----|-------|-----|-------|---|
| x_C | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 |
| C | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| AA | 0 | 5 | 1 | 0 | 0 | 0 | 1 |
| NT | 0 | 0 | 5 | 1 | 0 | 1 | 0 |
| rRNA | 0 | 0 | 0 | 0 | 50 | 0 | 0 |
| p | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

KA

| | Cin | EAA | ENT | rRNAp | Deg | Maint | r |
|------|-----|-----|-----|-------|-----|-------|----|
| x_C | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AA | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NT | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| rRNA | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| p | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

kcat

| | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] | [,7] |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| kcatf | 200 | 7.3846 | 9.8004 | 140 | 140 | 10 | 4.5 |
| kcatb | 40 | 1.47692 | 1.96008 | 0 | 0 | 0 | 0 |

Keq

| | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| [1,] | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] | [,7] |
| | 50 | 25 | 25 | Inf | Inf | Inf | Inf |

minimal phi constraint

| | | | | | | | |
|------|------|------|------|------|-------|------|------|
| [1,] | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] | [,7] |
| | 0 | 0 | 0 | 0 | 0.003 | 0 | 0 |

minimal f constraint

| | | | | | | | |
|------|------|------|------|------|------|------|------|
| [1,] | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] | [,7] |
| | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 |