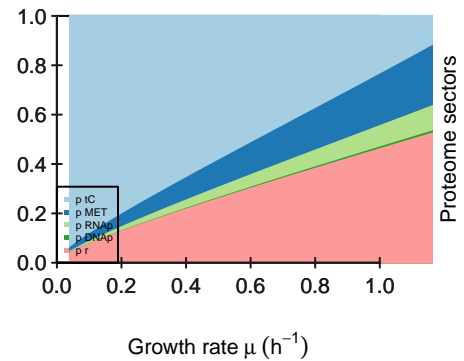
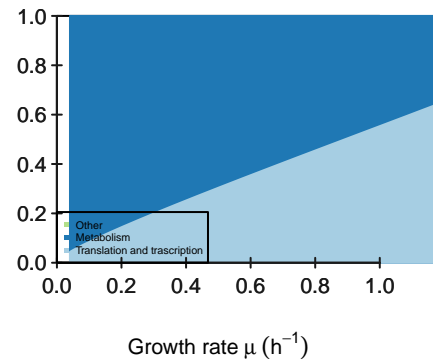


Proteome composition



Proteome sectors



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

**M**

|             | <b>tC</b> | <b>MET</b> | <b>RNAp</b> | <b>DNAP</b> | <b>r</b> |
|-------------|-----------|------------|-------------|-------------|----------|
| <b>C</b>    | 1         | -1         | 0           | 0           | 0        |
| <b>AA</b>   | 0         | 0.5        | 0           | 0           | -0.9     |
| <b>NT</b>   | 0         | 0.3        | -1          | -1          | 0        |
| <b>ATP</b>  | 0         | 0.2        | 0           | 0           | -0.1     |
| <b>rRNA</b> | 0         | 0          | 1           | 0           | 0        |
| <b>DNA</b>  | 0         | 0          | 0           | 1           | 0        |
| <b>p</b>    | 0         | 0          | 0           | 0           | 1        |

K

|      | tC  | MET | RNAp | DNAp | r  |
|------|-----|-----|------|------|----|
| x_C  | 0.1 | 0   | 0    | 0    | 0  |
| C    | 0   | 5   | 0    | 0    | 0  |
| AA   | 0   | 0   | 0    | 0    | 7  |
| NT   | 0   | 0   | 3    | 3    | 0  |
| ATP  | 0   | 0   | 0    | 0    | 13 |
| rRNA | 0   | 0   | 0    | 0    | 0  |
| DNA  | 0   | 0   | 0    | 0    | 0  |
| p    | 0   | 0   | 0    | 0    | 0  |

KA

|      | tC | MET | RNAp | DNAp | r  |
|------|----|-----|------|------|----|
| x_C  | 0  | 0   | 0    | 0    | 0  |
| C    | 0  | 0   | 0    | 0    | 0  |
| AA   | 0  | 0   | 0    | 0    | 0  |
| NT   | 0  | 0   | 0    | 0    | 0  |
| ATP  | 0  | 0   | 0    | 0    | 0  |
| rRNA | 0  | 0   | 0    | 0    | 40 |
| DNA  | 0  | 0   | 4    | 4    | 0  |
| p    | 0  | 0   | 0    | 0    | 0  |

**kcat**

|              | <b>tC</b> | <b>MET</b> | <b>RNAp</b> | <b>DNAp</b> | <b>r</b> |
|--------------|-----------|------------|-------------|-------------|----------|
| <b>kcatf</b> | 60.3      | 13.8       | 10.3        | 22.4        | 6.9      |
| <b>kcatb</b> | 0         | 0          | 0           | 0           | 0        |



Keq

|      |      |      |      |      |      |
|------|------|------|------|------|------|
| [1,] | [,1] | [,2] | [,3] | [,4] | [,5] |
|      | Inf  | Inf  | Inf  | Inf  | Inf  |

**phi input**

|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
|             | <b>[,1]</b> | <b>[,2]</b> | <b>[,3]</b> | <b>[,4]</b> | <b>[,5]</b> |
| <b>[1,]</b> | 0.065       | 0.352       | 0.12        | 0.003       | 0.46        |

**average saturation input**

3

minimal phi constraint

|  |             |             |             |             |             |             |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
|  | <b>[1,]</b> | <b>[,1]</b> | <b>[,2]</b> | <b>[,3]</b> | <b>[,4]</b> | <b>[,5]</b> |
|  |             | 0           | 0           | 0           | 0           | 0           |

minimal f constraint

|  |             |             |             |             |             |             |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
|  | <b>[1,]</b> | <b>[,1]</b> | <b>[,2]</b> | <b>[,3]</b> | <b>[,4]</b> | <b>[,5]</b> |
|  | 0           | 0           | 0           | 0           | 0           |             |