dNTP synthesis 10 dNTP / sec r ribonucleotide reductase ribonucleo reductase Ge et al. 2003 $\approx 5 \times 10^6$ base pairs BNID:100269 $N_{dNTPs} \approx 2 L_{genome} \approx 10^7 dNTPs$ ≈ 200 ribonucleotide reductases scaling with DNA content Peebo et al. 2015 estimated value Schmidt et al. 2016 Li et al. 2014 Valgepea et al. 2013 10^{4} ibonucleotide reductases per cell 10^{3} 10^{2} 10^{1}

0.00

0.25

0.50

0.75

1.00

growth rate [hr-1]

1.25

1.50 1.75

2.00