protein synthesis		
000000	$N_{peptide\ bonds} \approx 1 \times 10^9\ peptide\ bonds$	number of peptide bonds per cell
$r_{translation} \approx 15 pept$	tide bonds / (ribosome×sec) BNID: 109043	translation elongation rate

r _{tran}	\approx 15 peptide bonds / (ribosome \times sec)	BNID: 109	rate
	$N_{\text{ribosomes}} \approx \frac{N_{\text{peptide bonds}}}{r_{\text{translation}} \times t_{\text{division}}} \approx 1 \times 10^4$	ribosomes	number of ribosome complexes