

Table 1. The summary of translational parameters calculated in the model.

organism		L	x	b	g	w	l	E	\bar{e}	m
<i>E.coli</i>	mean	335	3.6	47	1.3	4.0	62	40	119	7.5
	median	298	1.7	28	0.8	2.3	15	35	119	6.8
	sd	203	5.6	60	1.3	5.0	206	24	9	4.0
	min	15	0.1	0	0	0	2	2	87	2.0
	max	1487	54.0	940	6.6	41.2	5091	178	177	42.3
<i>S.cerevisiae</i>	mean	513	7.8	116	1.1	5.6	54	116	224	33.2
	median	431	2.7	58	0.8	3.1	28	96	229	27.4
	sd	365	29.0	188	0.9	7.3	186	84	31	26.8
	min	37	0.1	1	0.0	0.0	2	4	98	4.3
	max	4911	591.3	2543	6.6	142.1	6714	1074	360	677
<i>H.sapiens</i>	mean	676	85.9	9171	2.3	11.5	7	59	87	6.5
	median	506	42.6	5616	2.1	10.1	4	44	87	9.2
	sd	620	171.9	9739	1.4	7.22	23	54	4	6.3
	min	38	0.9	14	0.0	0.0	1	3	75	3.0
	max	14508	4e3	83e3	7.5	131.6	1372	1232	108	34.6

Column description: (L) transcript length; (x) number of gene transcripts; (b) number of proteins produced from one transcript; (g) ribosome density in number of ribosomes per 100 codons; (w) number of ribosomes on a transcript; (l) initiation time in s; (E) elongation time in s; (\bar{e}) mean elongation time of one transcript codon in ms; and (m) mean transcript lifetime in min (bacteria, yeast), or in h (humans). For all parameters, except b and m , the rows 1–15 were calculated for 1738, 4470, and 7494 genes for bacteria, yeast, and humans, respectively. For parameter b and m , the rows were calculated for 1574, 3425, and 6205 genes, respectively.
doi:10.1371/journal.pone.0073943.t001