

**Table S2. Numerical screen of small-population model with non-monotonic mutation rates (Fig. 2I)**

<u>Parameter</u>	<u>Physical meaning</u>	<u>Range of values</u>
N	Population size	$10^0 - 10^3$ stem cells
L	Organism lifetime	$10^2 - 10^3$ cell cycles
$u_i; i = 0 \dots K-1$	Mutation rates	$10^{-9} - 10^{-2}$
K	# accumulated mutations	2