

S4 Table. Temporary sperm agent and other parameters.

Parameter	Origin		Description
$\theta_{s,t}^{SD'}$	Eq S30	-	Diminished standard deviation of individual deflection angle distribution
$\theta_{s,t}$	$\mathcal{N}(\mu, \sigma^2)$	$\mu = 0, \sigma = \theta_{s,t}^{SD'}$	Deflection angle
$v_{s,t}$	$\mathcal{N}(\mu, \sigma^2)$	$\mu = v_s^{avg}, \sigma = v_s^{SD}$	Temporary sperm agent speed
s_t^{align}	Eq S29	-	Score for the alignment with a compartment wall
k_θ	0.5	-	Strength of thigmotaxis
v_f^0	20 $\mu\text{m/s}$	-	Sperm alignment velocity
f_k	0.5	-	Steepness alignment response