|  |  |  |  |
| --- | --- | --- | --- |
| **Symbol** | **Name** | **Cause** | **Value** |
| *σ* | Cell adhesiveness | BT | Free parameter in [0,1] |
| *f* | Flow intensity | EF | Free parameter in [0,1] |
| *ρ0* | Founder cell density | BT by EF interaction | Free parameter in [10-3, 0.5] *cells/μm2* |
| *μ* | Reproduction rate | BT | Fixed parameter, 0.57 a.u. |
| *L* | Lateral lattice size | EF | Fixed parameter, 60 *μm* |
| *dt* | Time step | -- | Fixed parameter, 1/L2 a.u. |
| *dx* | Lattice mesh | -- | Fixed parameter, 1 *μm*  |
| *pd* | Detachment probability | BT by EF interaction | $$f(1-σ)$$ |
| *ps* | Shoving probability | BT by BT interaction | $$\frac{1-σ}{2}$$ |
| *Δx* | *x*-distance traveled | EF | Random, in [0, *fL*] |
| *Δy* | *y*-distance traveled | EF | Random, in [-*Δx*, *Δx*] |