BIOMATH
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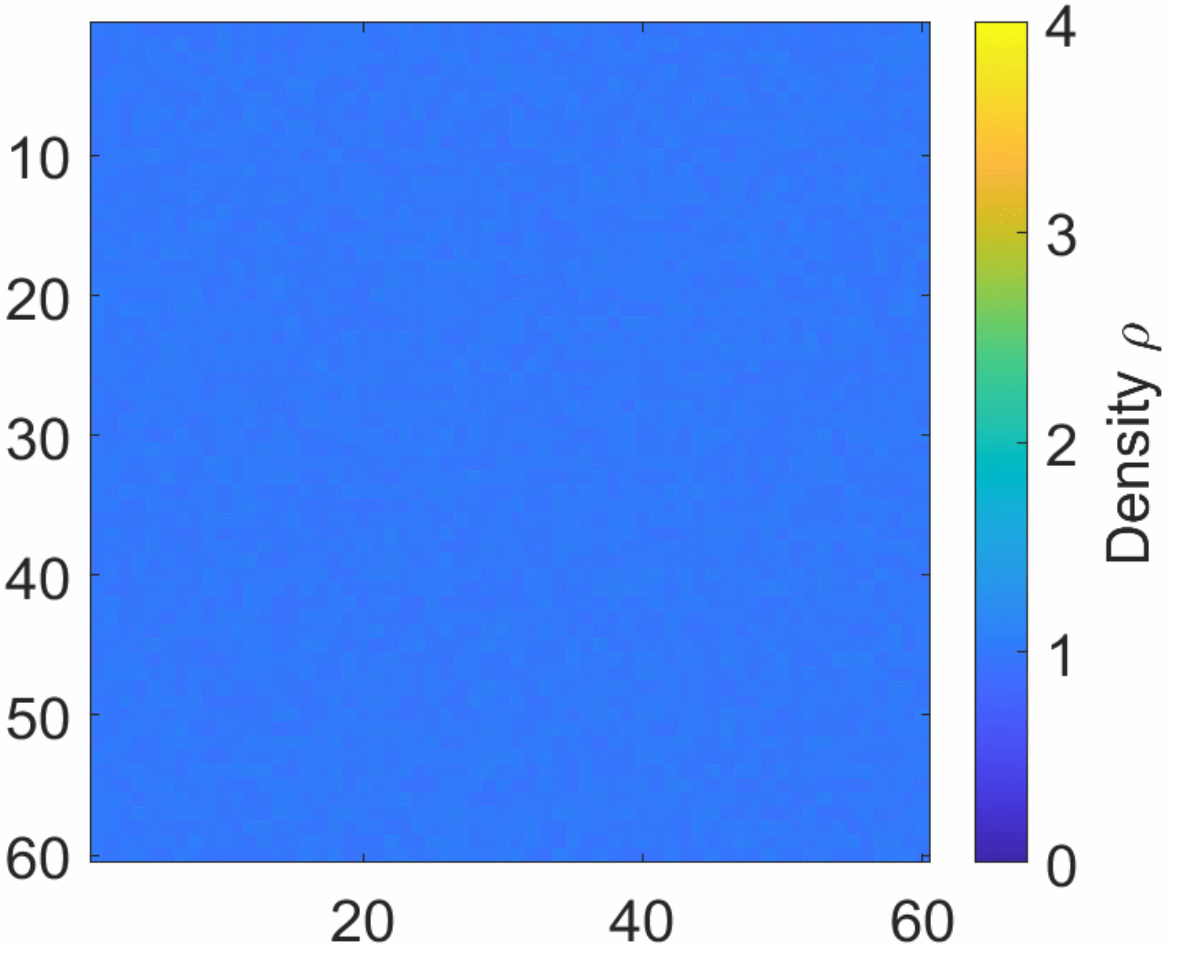
SUPPLEMENT MATERIAL

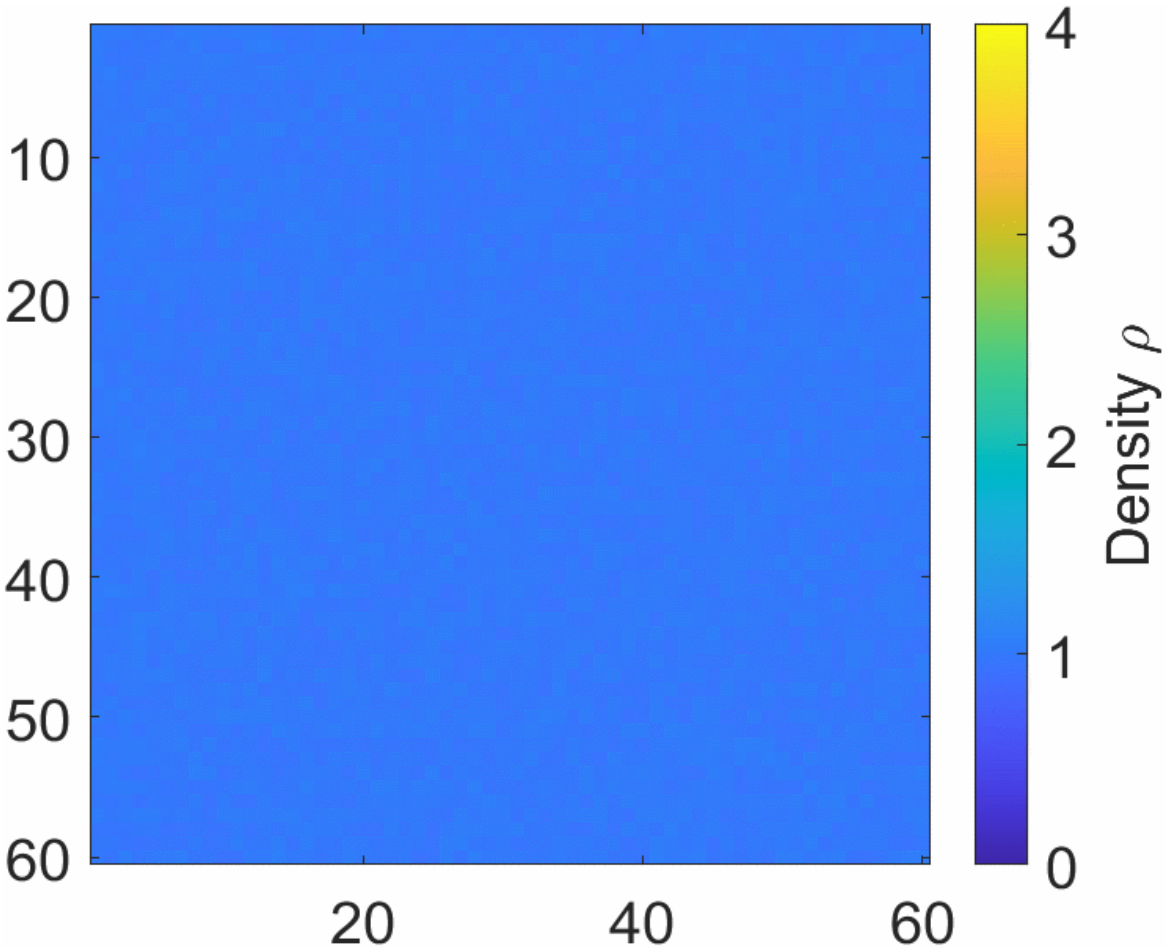
Artificial patterns in spatially discrete models of cell migration and how to mitigate them

Supplement to article *Josué Manik Nava-Sedeño, Simon Syga, Andreas Deutsch, Artificial patterns in spatially discrete models of cell migration and how to mitigate them* published in journal BIOMATH 12(2) 2023 at https://doi.org/10.55630/j.biomath.2023.11.177

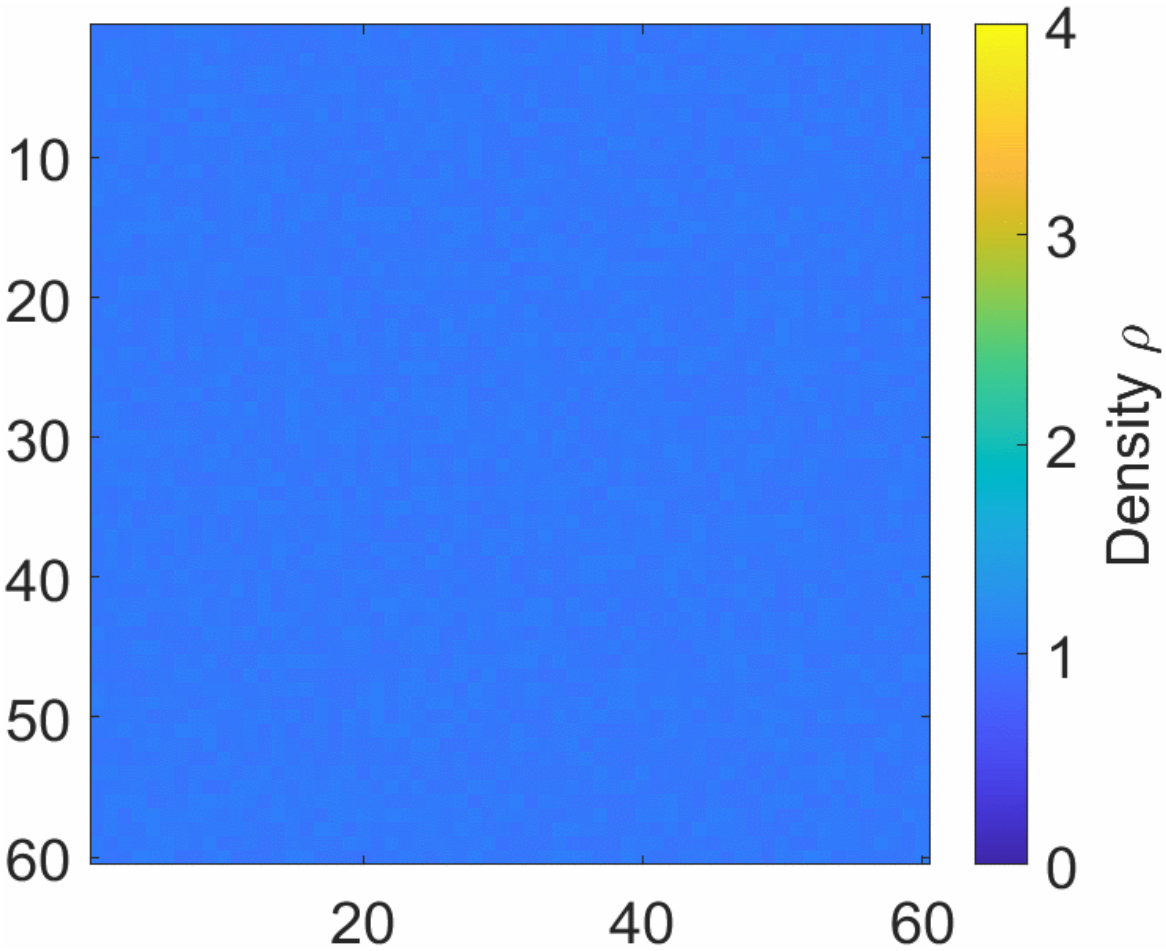
Click with the left mouse button on each movie to start playing it on supported software like Adobe Acrobat and other compatible PDF viewers.



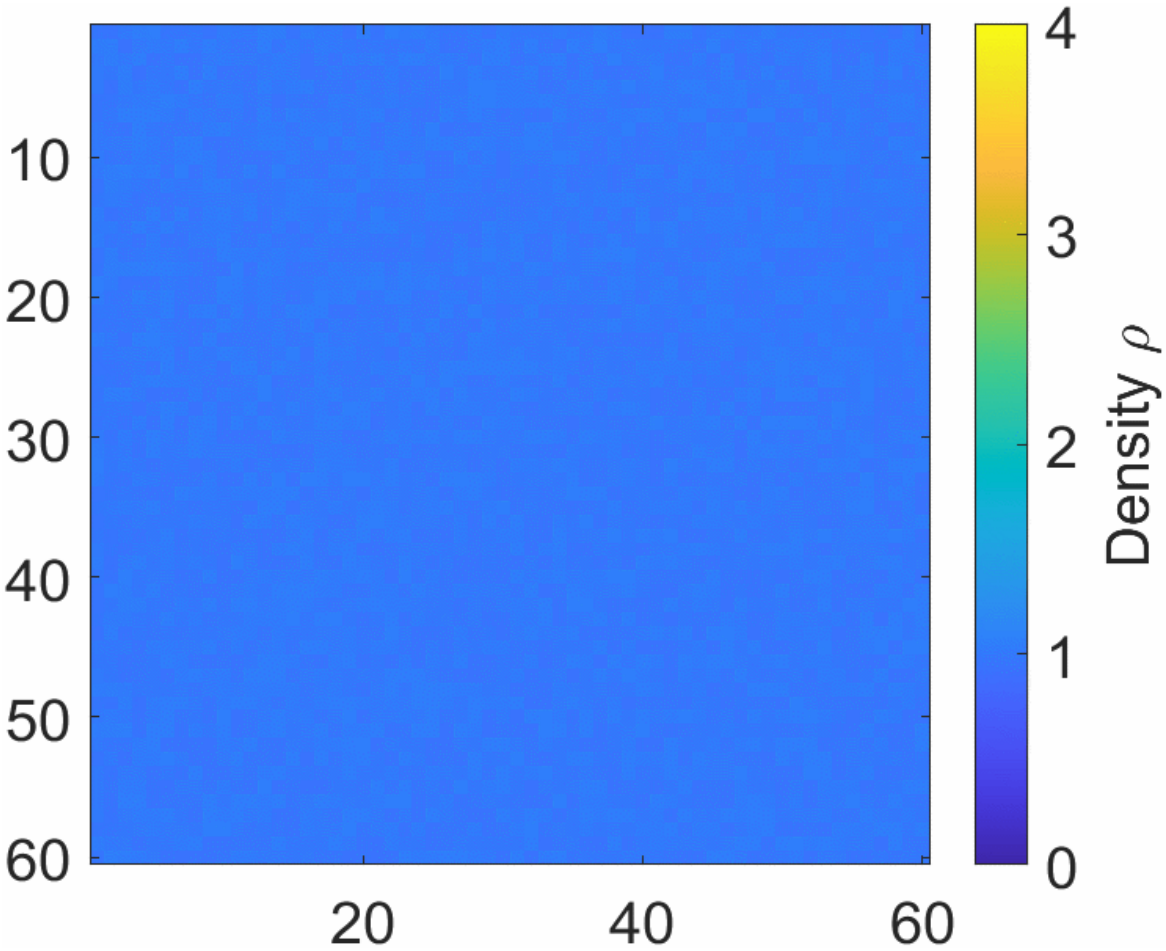
Movie S1: Simulation of the 2D polar alignment model on a square lattice. Model parameters are $\alpha_1 = 0$, $\alpha_2 = 0$. Checkerboard, worms, and immobile artifacts are observed.



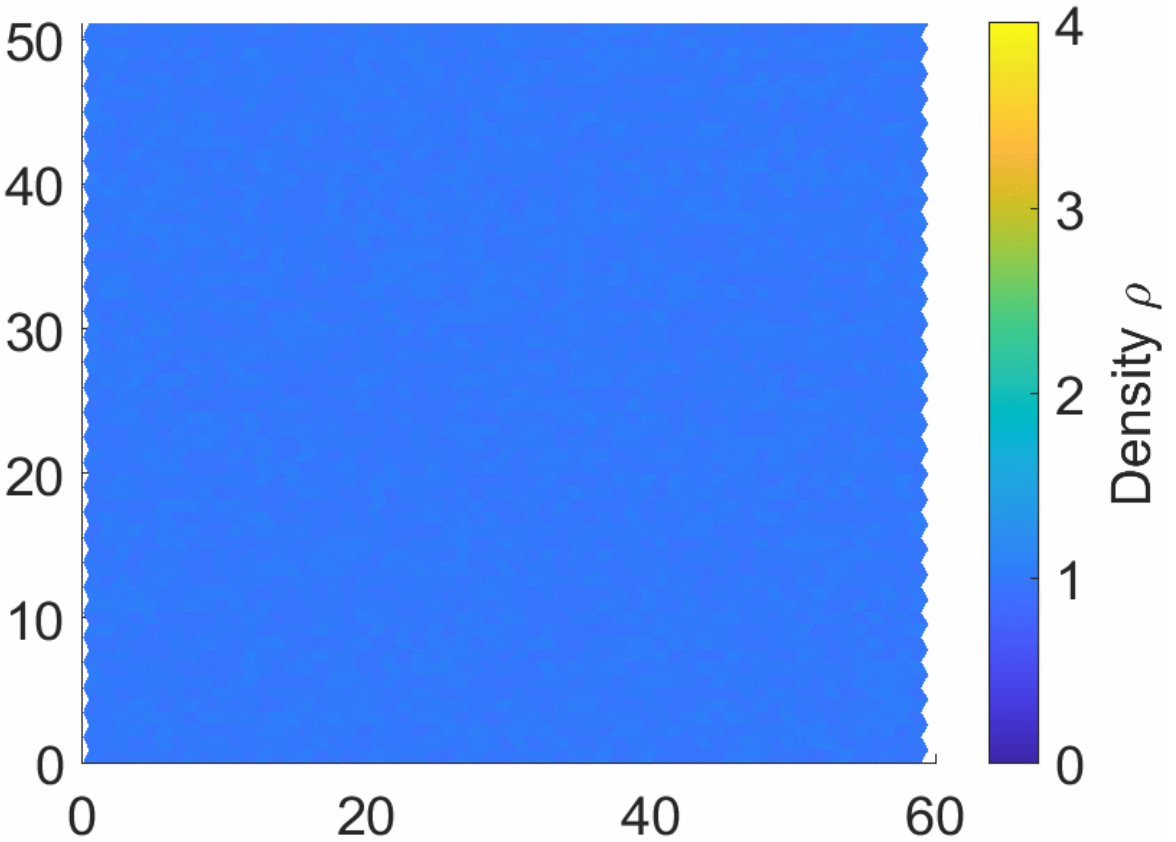
Movie S2: Simulation of the 2D polar alignment model on a square lattice. Model parameters are $\alpha_1 = 1$, $\alpha_2 = 0$. Worms and immobile artifacts are observed, checkerboard artifacts decay quickly.



Movie S3: Simulation of the 2D polar alignment model on a square lattice. Model parameters are $\alpha_1 = 0$, $\alpha_2 = 0.7$. Checkerboard artifacts survive even after several time steps have elapsed.



Movie S4: Simulation of the 2D polar alignment model on a square lattice. Model parameters are $\alpha_1 = 1$, $\alpha_2 = 0.7$. No long-lived artifacts observed.



Movie S5: Simulation of the 2D polar alignment model on a hexagonal lattice. Model parameters are $\alpha_1 = 1$, $\alpha_2 = 0.7$. No long-lived artifacts observed.