Supporting Information

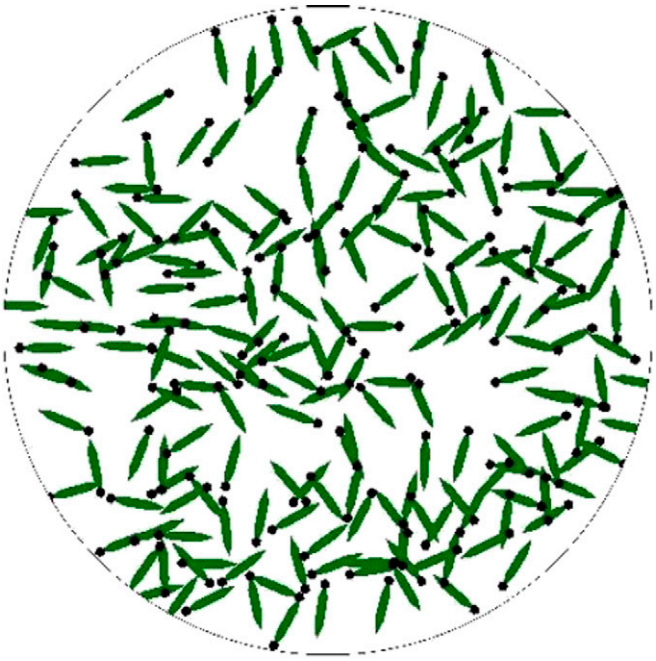
Lushi et al. 10.1073/pnas.1405698111

Movie S1. Simulation results with and without hydrodynamic interactions are compared with experimental observations under circular confinement.

Movie S1

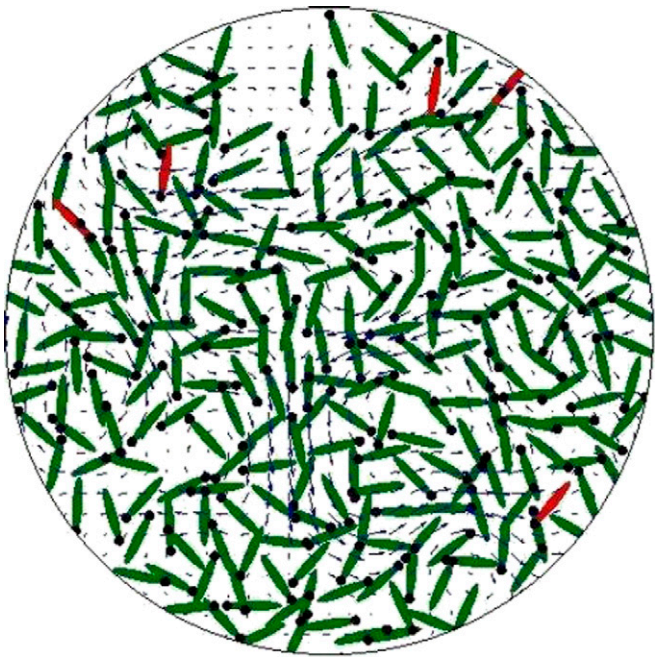
Movie S2. Simulation results with and without hydrodynamic interactions are compared with experimental observations in a 2D unconfined domain.

Movie S2



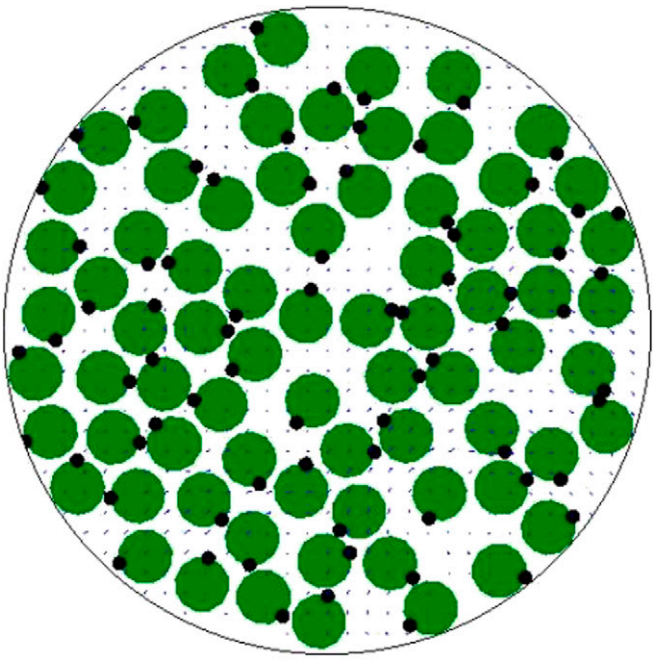
Movie S3. Elongated swimmers self-organize under confinement with direct cell–cell interactions only.

Movie S3



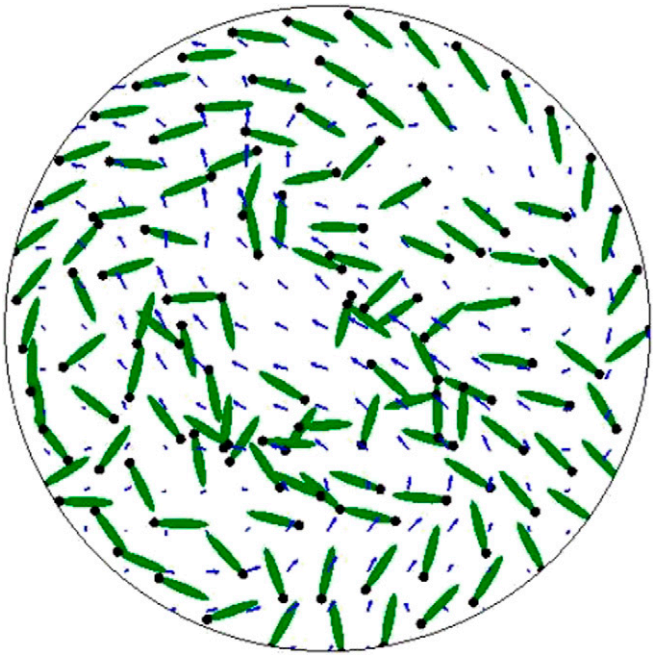
Movie S4. Elongated pusher swimmers self-organize under confinement with direct cell–cell and cell–fluid interactions. Blue arrows, fluid flow.

Movie S4



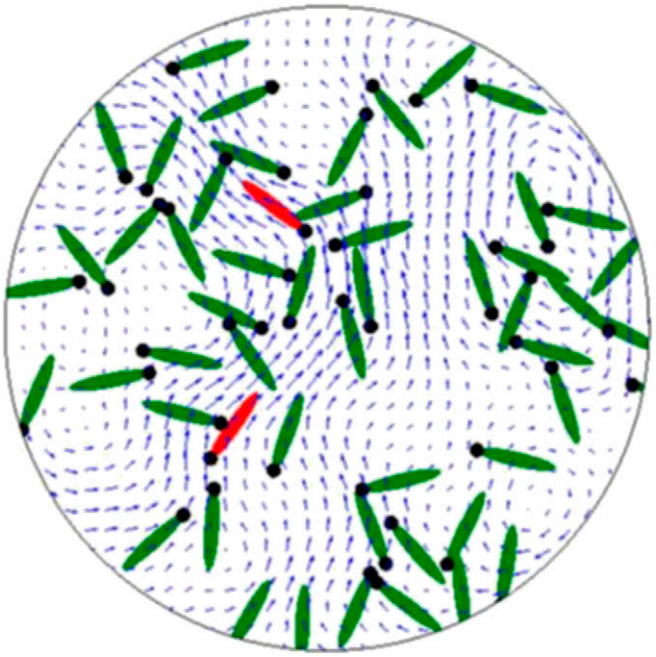
Movie S5. Circular pusher swimmers self-organize under confinement with direct cell–cell and cell–fluid interactions. Blue arrows, fluid flow.

Movie S5



Movie S6. Semicircular pusher swimmers self-organize under confinement with direct cell–cell and cell–fluid interactions. Cells are reoriented by hydrodynamics but not by steric interactions. Blue arrows, fluid flow.

Movie S6



Movie S7. A dilute suspension of pusher swimmers self-organizes under confinement with direct cell–cell and cell–fluid interactions. Blue arrows, fluid flow.

Movie S7