

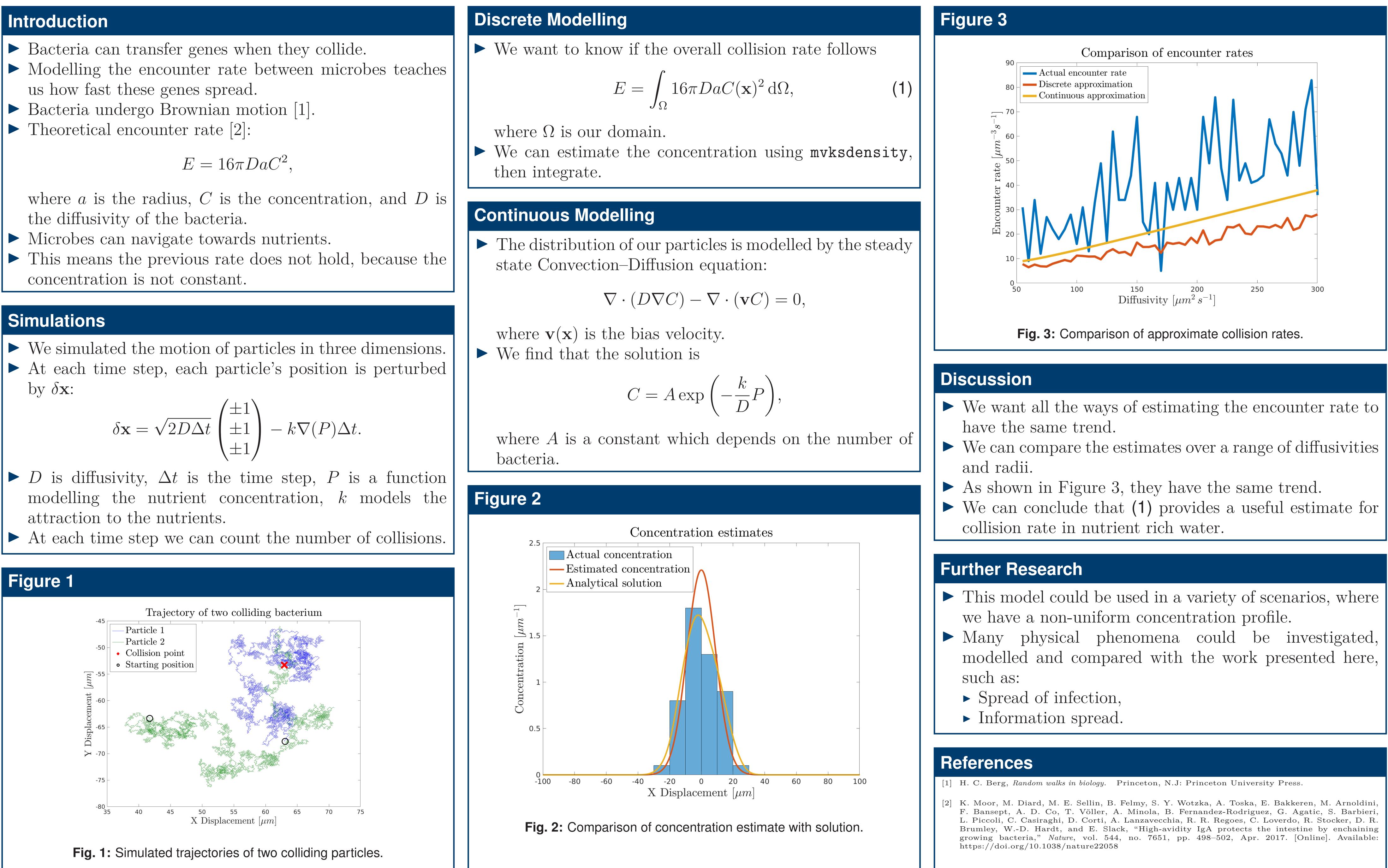
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- the diffusivity of the bacteria.
- concentration is not constant.

by $\delta \mathbf{x}$:

$$\delta \mathbf{x} = \sqrt{2D\Delta t} \begin{pmatrix} \pm 1 \\ \pm 1 \\ \pm 1 \end{pmatrix} - k\nabla(P)\Delta t.$$

- attraction to the nutrients.



The encounter rate of microbes in nutrient rich water

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