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What causes the spatial heterogeneity of bacterial flora in the intestine of zebrafish larvae?

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Highlights

- Taxis could cause the bacterial aggregation in the intestine
- Taxis stronger than diffusion and flow induces aggregation
- A computational model was developed to describe bacterial spatial heterogeneity
- An anatomically realistic 3D model of zebrafish intestine was constructed
- Intestinal peristalsis had the effect of reducing bacterial aggregation

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