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A spatiotemporal master equation model of morphogen transport:
local accumulation times, noise measurement and diffusion force

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Highlights

- A spatiotemporal master equation model for morphogen transport has been built.
- We have derived analytical expressions of a local accumulation time of the first-order and second-order moments and variances;
- The analytical expression of the variances for this model has been obtained.
- Potential energy, diffusion force and work acting on morphogen molecules are further measured.

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