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Analysis of the fluctuations of the tumour/host interface

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#### **ACCEPTED MANUSCRIPT**

### Highlights

- The interface area of solid tumours with normal tissue displays marked fluctuations.
- Heuristic arguments suggest that the fluctuations have a lognormal distribution.
- We utilize metabolic growth data to obtain the magnitude of the fluctuations.
- Our statistical analysis strongly supports the lognormal conjecture.

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