

Accepted Manuscript

Determining whether observed eukaryotic cell migration indicates chemotactic responsiveness or random chemokinetic motion

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PII: S0022-5193(17)30223-0
DOI: [10.1016/j.jtbi.2017.05.014](https://doi.org/10.1016/j.jtbi.2017.05.014)
Reference: YJTBI 9071



To appear in: *Journal of Theoretical Biology*

Received date: 22 November 2016
Revised date: 21 March 2017
Accepted date: 9 May 2017

Please cite this article as: A.C. Szatmary, R. Nossal, Determining whether observed eukaryotic cell migration indicates chemotactic responsiveness or random chemokinetic motion, *Journal of Theoretical Biology* (2017), doi: [10.1016/j.jtbi.2017.05.014](https://doi.org/10.1016/j.jtbi.2017.05.014)

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Highlights

- Chemotaxis, cell motion directed by a gradient, can be mistaken for random motion
- We calculated gradients in frequently-used assays and modeled resulting cell motion
- We found that observed cell motion is often mostly due to random motion
- Chemotaxis is likely over-reported, especially for epithelial-derived cancer cells

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