Publications

Recent Publications

K. Pan, T. E. Saunders, I. F. Parra, M. Howard and F. Chang
Cortical regulation of cell size by a sizer cdr2p.
*eLife*, (March 2014).

J. Erceg, T. E. Saunders, C. Giradout, Damien P. Devos, L. Hufnagel and E. E. Furlong
Subtle changes in motif positioning cause tissue-specific effects on robustness of enhancer activity.

U. Krzic, S. Gunther, T. E. Saunders, S. Streichan and L. Hufnagel
Multiview light-sheet microscope for rapid in toto imaging.
*Nature Methods* 9, 730-733 (June 2012).

Noise reduction in the intracellular Pom1p gradient by a dynamic clustering mechanism.
*Developmental Cell* 22, 558-572 (February 2012).

U. Krzic, T. E. Saunders, S. Streichan and L. Hufnagel
Using Scientific CMOS Technology for Fast 3D Imaging with Selective-Plane Illumination.
*Microscopy and analysis* 26, (January 2012).

F. He*, T. E. Saunders*, Y. Wen*, D. Cheung, R. J. Jiao, P. R. ten Wolde, M. Howard and J. Ma
Shaping a morphogen gradient for positional precision.

A. Andreanov, J. T. Chalker, T. E. Saunders and D. Sherrington
Spin glass transition in geometrically frustrated antiferromagnets with weak disorder.
*Physical Review B* 81, 014406 (January 2010).
This paper was an Editor's Suggestion of the month.

T. E. Saunders and M. Howard
When it pays to rush: interpreting morphogen gradients prior to steady-state.
*Physical Biology* 6, 046020 (November 2009).
Physical Biology chose this paper as one of its "Highlights of the Year 2009".
T. E. Saunders and M. Howard
Morphogen Profiles Can Be Optimised to Buffer Against Noise.
*Physical Review* E 80, 041902 (October 2009). Recommended by Faculty of 1000.

T. Pickles, T. E. Saunders and J. T. Chalker
Critical phenomena in a highly constrained classical spin system:
Neel ordering from the Coulomb phase.
*Europhysics Letters* 84, 36002 (October 2008).

T. E. Saunders and J. T Chalker
Structural phase transitions in geometrically frustrated antiferromagnets.
*Physical Review* B 77, 214438 (June 2008).

T. E. Saunders and J. T. Chalker
Spin Freezing in Geometrically Frustrated Antiferromagnets with Weak Disorder.

* denotes equal author contribution