

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.

PLoS Genetics, e1004060 (January 2014).

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).

T. E. Saunders*, K. Z. Pan*, A. Angel, Y. Guan, J. V. Shah, M. Howard and F. Chang

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.

Biophysical Journal 99 , 697-707 (August 2010).

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.

Physical Review Letters 98 , 157201 (April 2007).

* denotes equal author contribution