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2. Eric Lauga, Denis Bartolo
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3. G. P. Alexander, J. M. Yeomans
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4. Niko Komin, Raúl Toral
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6. Edward Ott, Thomas M. Antonsen

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Bioinformatics

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2. Sridhar Hannenhalli
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3. Daniele Santoni, Marco Pedicini and Filippo Castiglione
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Biophysical Journal

1. Eran Eyal and Ivet Bahar
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   Biophys. J. 94, 3424-3435 (2008) (http://www.biophysj.org/cgi/content/abstract/94/9/3424)
2. Javier Satulovsky, Roger Lui and Yu-li Wang
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4. Mark Zajac, Brian Dacanay, William A. Mohler and Charles W. Wolgemuth
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5. Yueheng Lan and Garegin A. Papoian
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   Biophys. J. 94, 3839-3852 (2008) (http://www.biophysj.org/cgi/content/abstract/94/10/3839)
6. Kenji Kikushima and Ritsu Kamiya
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   Biophys. J. 94, 4014-4019 (2008) (http://www.biophysj.org/cgi/content/abstract/94/10/4014)
7. Anne Pierres, Anne-Marie Benoliel, Dominique Touchard and Pierre Bongrand
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8. Simone Fulle and Holger Gohlke
   Analyzing the Flexibility of RNA Structures by Constraint Counting
   Biophys. J. 94, 4202-4219 (2008) (http://www.biophysj.org/cgi/content/abstract/94/11/4202)
9. Marko Djordjevic and Ralf Bundschuh
   Formation of the Open Complex by Bacterial RNA Polymerase—A Quantitative Model
   Biophys. J. 94, 4233-4248 (2008) (http://www.biophysj.org/cgi/content/abstract/94/11/4233)
10. Kwang-Il Goh, Byungnam Kahng and Kwang-Hyun Cho
    Sustained Oscillations in Extended Genetic Oscillatory Systems
    Biophys. J. 94, 4270-4276 (2008) (http://www.biophysj.org/cgi/content/abstract/94/11/4270)

Cell

1. Boeger H, Griesenbeck J, Kornberg RD.
   Nucleosome Retention and the Stochastic Nature of Promoter Chromatin Remodeling for Transcription
   Cell. 2008 May 16;133(4):716-26. (http://www.cell.com/content/article/abstract?uid=PIIS0092867408004455)
2. Neves SR, Tsokas P, Sarkar A, Grace EA, Rangamani P, Taubenfeld SM, Alberini CM, Schaff JC, Blitzer RD, Moraru II, Iyengar R.
   Cell Shape and Negative Links in Regulatory Motifs Together Control Spatial Information Flow in Signaling Networks
   Cell. 2008 May 16;133(4):666-80. (http://www.cell.com/content/article/abstract?uid=PIIS0092867408005175)
3. Murayama A et.al.
   Epigenetic Control of rDNA Loci in Response to Intracellular Energy Status
   Cell. 2008 May 16;133(4):627-39. (http://www.cell.com/content/article/abstract?uid=PIIS0092867408004595)
4. Akin O, Mullins RD.
   Capping Protein Increases the Rate of Actin-Based Motility by Promoting Filament Nucleation by the Arp2/3 Complex
   Cell. 2008 May 30;133(5):841-51. (http://www.cell.com/content/article/abstract?uid=PIIS0092867408004984)
5. Maurange C, Cheng L, Gould AP.
   Temporal Transcription Factors and Their Targets Schedule the End of Neural Proliferation in Drosophila
   Cell. 2008 May 30;133(5):891-902. (http://www.cell.com/content/article/abstract?uid=PIIS0092867408004996)
6. Sasai N, Yakura R, Kamiya D, Nakazawa Y, Sasai Y.
   Ectodermal Factor Restricts Mesoderm Differentiation by Inhibiting p53
   Cell. 2008 May 30;133(5):878-90. (http://www.cell.com/content/article/abstract?uid=PIIS009286740800500X)

Development

1. Lixia Zhang, Christina Kendrick, Dörthe Jülich, and Scott A. Holley
   Cell cycle progression is required for zebrafish somite morphogenesis but not segmentation clock function
   Development 2008 135: 2065-2070. (http://dev.biologists.org/cgi/content/full/135/12/2065)
2. Li-Chin Yao, Sopheap Phin, Jane Cho, Christine Rushlow, Kavita Arora, and Rahul Warrior
   Multiple modular promoter elements drive graded brinker expression in response to the Dpp morphogen gradient
   Development 2008 135: 2183-2192. (http://dev.biologists.org/cgi/content/full/135/12/2183)
3. Judith S. Eisen and James C. Smith
   Controlling morpholino experiments: don't stop making antisense
   Development 2008 135: 1735-1743. (http://dev.biologists.org/cgi/content/full/135/10/1735)
4. Fabian Rentzsch, Jens H. Fritzenwanker, Corinna B. Scholz, and Ulrich Technau
   FGF signalling controls formation of the apical sensory organ in the cnidarian Nematostella vectensis
   Development 2008 135: 1761-1769. (http://dev.biologists.org/cgi/content/full/135/10/1761)
5. Mark-Oliver Trowe, Hannes Maier, Michaela Schweizer, and Andreas Kispert
   Deafness in mice lacking the T-box transcription factor Tbx18 in otic fibrocytes
   Development 2008 135: 1725-1734. (http://dev.biologists.org/cgi/content/full/135/9/1725)

European Physical Journal E

1. D. H. Mengistu and S. May
   Debye-Hückel theory of mixed charged-zwitterionic lipid layers
   Eur. Phys. J. E (2008) Online first
   (http://epje.edpsciences.org/index.php?option=article&access=standard&Itemid=129&url=/articles/epje/abs/first
2. M. Lamblet, B. Delord, L. Johannes, D. van Effenterre and P. Bassereau
   Key role of receptor density in colloid/cell specific interaction: a quantitative biomimetic study on giant vesicles
   Eur. Phys. J. E 26, 205-216 (2008)
   (http://epje.edpsciences.org/index.php?option=article&access=standard&Itemid=129&url=/articles/epje/abs/200
3. T. Lobovkina, P. G. Dommersnes, S. Tiourine, J. -F. Joanny and O. Orwar
   Shape optimization in lipid nanotube networks
   Eur. Phys. J. E (2008) Online first
   (http://epje.edpsciences.org/index.php?option=article&access=dkey&dkey=10.1140/epje/i2007-10325-x&lang=e
4. H. Koibuchi
   Phase structure of a surface model with many fine holes
   Phys. J. E (2008) Online first

(http://epje.edpsciences.org/index.php?option=article&access=dkey&dkey=10.1140/epje/i2007-10327-8&lang=e

Europhysics Letters

1. B. Wada and B. Netz
   Discrete elastic model for stretching-induced flagellar polymorphs
   EPL 82 No 2 (April 2008) 28001
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2. J. Finke, N. Quijano and K. M. Passino
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   (http://www.iop.org/EJ/article/-search=56155299.1/0295-5075/82/2/28004/epl_82_2_28004.pdf)
3. F. J. Solis, C. M. Funkhouser and K. Thornton
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4. G. X. Qi, H. B. Huang, L. Chen, H. J. Wang and C. K. Shen
   Fast synchronization in neuronal networks
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   (http://www.iop.org/EJ/article/-search=56155850.8/0295-5075/82/3/38003/epl_82_3_38003.pdf)
5. T. Gross and I. G. Kevrekidis
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   EPL 82 No 3 (May 2008) 38004
   (http://www.iop.org/EJ/article/-search=56155967.1/0295-5075/82/3/38004/epl_82_3_38004.pdf)
6. A. Buscarino, L. Fortuna, M. Frasca and V. Latora
   Disease spreading in populations of moving agents
   EPL 82 No 3 (May 2008) 38002
   (http://www.iop.org/EJ/article/-search=56155992.1/0295-5075/82/3/38002/epl_82_3_38002.pdf)

Journal of Cell Biology

Journal of the Royal Society Interface

1. John J. Tyson, Reka Albert, Albert Goldbeter, Peter Ruoff and Jill Sible
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   Published Online http://dx.doi.org/10.1098/rsif.2008.0179.focus

Journal of Theoretical Biology

Nature

1. Matthieu Cavey, Matteo Rauzi, Pierre-François Lenne & Thomas Lecuit
   A two-tiered mechanism for stabilization and immobilization of E-cadherin
   Nature 453, 751-756 (2008) (http://www.nature.com/nature/journal/v453/n7196/full/nature06953.html)
2. Marta C. González, César A. Hidalgo & Albert-László Barabási
   Understanding individual human mobility patterns
   Nature 453, 779-782 (2008) (http://www.nature.com/nature/journal/v453/n7196/full/nature06958.html)
3. Kinneret Keren, Zachary Pincus, Greg M. Allen, Erin L. Barnhart, Gerard Marriott, Alex Mogilner & Julie A.
   Theriot
   Mechanism of shape determination in motile cells
   Nature 453, 475-480 (2008) (http://www.nature.com/nature/journal/v453/n7194/full/nature06952.html)
4. Hannah H. Chang, Martin Hemberg, Mauricio Barahona, Donald E. Ingber & Sui Huang
   Transcriptome-wide noise controls lineage choice in mammalian progenitor cells
   Nature 453, 544-547 (2008) (http://www.nature.com/nature/journal/v453/n7194/full/nature06965.html)
5. Travis N. Mavrich, Cizhong Jiang, Ilya P. Ioshikhes, Xiaoyong Li, Bryan J. Venters, Sara J. Zanton, Lynn P.

Tomsho, Ji Qi, Robert L. Glaser, Stephan C. Schuster, David S. Gilmour, Istvan Albert & B. Franklin Pugh
Nucleosome organization in the Drosophila genome
Nature 453, 358-362 (2008) (http://www.nature.com/nature/journal/v453/n7193/full/nature06929.html)

6. Kiminori Maeda, Kevin B. Henbest, Filippo Cintolesi, Ilya Kuprov, Christopher T. Rodgers, Paul A. Liddell, Devens Gust, Christiane R. Timmel & P. J. Hore
Chemical compass model of avian magnetoreception
Nature 453, 387-390 (2008) (http://www.nature.com/nature/journal/v453/n7193/full/nature06834.html)

7. Elio A. Abbondanzieri, Gregory Bokinsky, Jason W. Rausch, Jennifer X. Zhang, Stuart F. J. Le Grice & Xiaowei Zhuang
Dynamic binding orientations direct activity of HIV reverse transcriptase
Nature 453, 184-189 (2008) (http://www.nature.com/nature/journal/v453/n7192/full/nature06941.html)

8. Yasushi Saeki and Keiji Tanaka
Two hands for degradation
Nature 453, 460-461 (2008) (http://www.nature.com/nature/journal/v453/n7194/full/453460a.html)

Nature Cell Biology

Nature Neuroscience

1. Marcia M Mellado Lagarde, Markus Drexl, Victoria A Lukashkina, Andrei N Lukashkin & Ian J Russell
Outer hair cell somatic, not hair bundle, motility is the basis of the cochlear amplifier
Nat. Neurosci./Volume 11 (http://www.nature.com/neuro/journal/vaop/ncurrent/abs/nn.2129.html)

Nature Physics

1. Wilhelm Zerger
News and Views: Thermodynamics: Limited Adiabaticity
Nature Physics 4, 444 - 446 (2008) (http://www.nature.com/nphys/journal/v4/n6/full/nphys979.html)

2. Anatoli Polkovnikov, Vladimir Gritsev
Breakdown of the adiabatic limit in low-dimensional gapless systems
Nature Physics 4, 477 - 481 (2008) (http://www.nature.com/nphys/journal/v4/n6/full/nphys963.html)

3. S. Hofferberth, I. Lesanovsky, T. Schumm, A. Imambekov, V. Gritsev, E. Demler, & J. Schmiedmayer
Probing quantum and thermal noise in an interacting many-body system
Nature Physics 4, 489-495 (2008) (http://www.nature.com/nphys/journal/v4/n6/full/nphys962.html)

Neuron

1. Peter Dallos, Xudong Wu, Mary Ann Cheatham, Jiangang Gao, Jing Zheng, Charles T. Anderson, Shuping Jia, Xiang Wang, Wendy H.Y. Cheng, Soma Sengupta, David Z.Z. He and Jian Zuo
Prestin-Based Outer Hair Cell Motility Is Necessary for Mammalian Cochlear Amplification
Neuron/Volume 58, Issue 3, 8 May 2008, Pages 333-339
(http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WSS-4SFRCHN-7&_user=42421&_coverDa

2. Ulrich Müller and Peter Gillespie
Silencing the Cochlear Amplifier by Immobilizing Prestin
Neuron/Volume 58, Issue 3, 8 May 2008, Pages 299-301
(http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WSS-4SFRCHN-2&_user=42421&_coverDa

Physical Biology

Physical Review E

1. Y. Morishita and Y. Iwasa
Optimal placement of multiple morphogen sources
Phys. Rev. E 77, 041909 (2008) (http://link.aps.org/abstract/PRE/v77/e041909)

Physical Review Letters

1. Wouter-Jan Rappel and Herbert Levine
   Receptor Noise and Directional Sensing in Eukaryotic Chemotaxis
   PhysRevLett.100.22810
   (http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=PRLTAO000100000022228101000001&

2. A. F. Taylor, P. Kapetanopoulos, B. J. Whitaker, R. Toth, L. Bull, and M. R. Tinsley
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   PhysRevLett.100.214101 (http://link.aps.org/abstract/PRL/v100/e214101)

3. D. Lasne, A. Maali, Y. Amarouchene, L. Cognet, B. Lounis, and H. Kellay
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   PhysRevLett.100.214502 (http://link.aps.org/abstract/PRL/v100/e214502)

4. Ingve Simonsen, Lubos Buzna, Karsten Peters, Stefan Bornholdt, and Dirk Helbing
   Transient Dynamics Increasing Network Vulnerability to Cascading Failures
   doi:10.1103/PhysRevLett.100.218701 (http://link.aps.org/abstract/PRL/v100/e218701)

5. Johannes Berg
   Out-of-Equilibrium Dynamics of Gene Expression and the Jarzynski Equality
   doi:10.1103/PhysRevLett.100.188101 (http://link.aps.org/abstract/PRL/v100/e188101)

6. David Gfeller and P D L Rios
   Spectral Coarse Graining and Synchronization in Oscillator Networks
   doi:10.1103/PhysRevLett.100.174104 (http://link.aps.org/abstract/PRL/v100/e174104)

7. Thomas Speck, Jakob Mehl, and Udo Seifert
   Role of External Flow and Frame Invariance in Stochastic Thermodynamics
   doi:10.1103/PhysRevLett.100.178302 (http://link.aps.org/abstract/PRL/v100/e178302)

8. Yi Zheng,[1] Darel J. Hunting,[2] Patrick Ayotte,[1] and Léon Sanche[2]
   Role of Secondary Low-Energy Electrons in the Concomitant Chemoradiation Therapy of Cancer
   http://link.aps.org/abstract/PRL/v100/e198101

9. Se Il Lee and Toan T. Nguyen
   Radial Distribution of RNA Genomes Packaged inside Spherical Viruses
   http://link.aps.org/abstract/PRL/v100/e198102

10. Jianjun Pan, Thalia T. Mills, Stephanie Tristram-Nagle, and John F. Nagle
    Cholesterol Perturbs Lipid Bilayers Nonuniversally
    http://link.aps.org/abstract/PRL/v100/e198103

11. Shlomi Reuveni,[1] Rony Granek,[2] and Joseph Klafter
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13. Feodor Y. Ogrin, Peter G. Petrov, and C. Peter Winlove
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    http://link.aps.org/abstract/PRL/v100/e218102

14. J. Tailleur and M. E. Cates
    Statistical Mechanics of Interacting Run-and-Tumble Bacteria
    http://link.aps.org/abstract/PRL/v100/e218103

15. Wouter-Jan Rappel and Herbert Levine
    Receptor Noise and Directional Sensing in Eukaryotic Chemotaxis
    http://link.aps.org/abstract/PRL/v100/e228101

16. Turkan Haliloglu,[1] Emek Seyrek,[1] and Burak Erman
    Prediction of Binding Sites in Receptor-Ligand Complexes with the Gaussian Network Model
    http://link.aps.org/abstract/PRL/v100/e228102

17. Jörg Pieper,[1] Alexandra Buchsteiner,[2] Norbert A. Dencher,[3] Ruep E. Lechner,[2,3] and Thomas Hauß
    Transient Protein Softening during the Working Cycle of a Molecular Machine
    http://link.aps.org/abstract/PRL/v100/e228103

18. David J. Schwab, Robijn F. Bruinsma, and Joseph Rudnick Jonathan Widom
    Nucleosome Switches
    http://link.aps.org/abstract/PRL/v100/e228105

PLoS Biology

PLoS Computational Biology

1. Adam Wasserstrom1, Dan Frumkin1, Rivka Adar el. at.
   Estimating Cell Depth from Somatic Mutations
   PLoS Comput Biol 4(5): e1000058. doi:10.1371/journal.pcbi.1000058
   (http://www.ploscompbiol.org/article/info%3Adoi%2F10.1371%2Fjournal.pcbi.1000058)
2. Arbel D. Tadmor, Tsvi Tlusty
   A Coarse-Grained Biophysical Model of E. coli and Its Application to Perturbation of the rRNA Operon Copy Number
   PLoS Comput Biol 4(5): e1000038. doi:10.1371/journal.pcbi.1000038
   (http://www.ploscompbiol.org/article/info:doi/10.1371/journal.pcbi.1000038)
3. Jong Min Lee, Erwin P. Gianchandani, James A. Eddy, Jason A. Papin
   Dynamic Analysis of Integrated Signaling, Metabolic, and Regulatory Networks
   PLoS Comput Biol 4(5): e1000086. doi:10.1371/journal.pcbi.1000086
   (http://www.ploscompbiol.org/article/info%3Adoi%2F10.1371%2Fjournal.pcbi.1000086)

PNAS

1. Kenneth J. Rosenberg, Jennifer L. Ross, H. Eric Feinstein, Stuart C. Feinstein and Jacob Israelachvili
   Complementary dimerization of microtubule-associated tau protein: Implications for microtubule bundling and tau-mediated pathogenesis
   PNAS 105: 7445-7450 (http://www.pnas.org/cgi/content/abstract/105/21/7445)
2. Jacobus C. de Roode, Andrew J. Yates and Sonia Altizer
   Virulence-transmission trade-offs and population divergence in virulence in a naturally occurring butterfly parasite
   PNAS 105: 7489-7494 (http://www.pnas.org/cgi/content/abstract/105/21/7489)
3. Ronald Lee
   Sociality, selection, and survival: Simulated evolution of mortality with intergenerational transfers and food sharing
   PNAS 105: 7124-7128 (http://www.pnas.org/cgi/content/abstract/105/20/7124)
4. Andreas Bernsel, Håkan Viklund, Jenny Falk, Erik Lindahl, Gunnar von Heijne and Arne Elofsson
   Prediction of membrane-protein topology from first principles
   PNAS 105: 7177-7181 (http://www.pnas.org/cgi/content/abstract/105/20/7177)
5. Ana-Suncana Smith, Kheya Sengupta, Stefanie Goennenwein, Udo Seifert and Erich Sackmann
   Force-induced growth of adhesion domains is controlled by receptor mobility
   PNAS 105: 6906-6911 (http://www.pnas.org/cgi/content/abstract/105/19/6906)
6. Ashley J. W. Ward, David J. T. Sumpter, Iain D. Couzin, Paul J. B. Hart and Jens Krause
   From the Cover: Quorum decision-making facilitates information transfer in fish shoals
   105: 6948-6953 (http://www.pnas.org/cgi/content/abstract/105/19/6948)
7. Michael P. H. Stumpf, Thomas Thorne, Eric de Silva, Ronald Stewart, Hyeong Jun An, Michael Lappe and Carsten Wiuf
   From the Cover: Estimating the size of the human interactome
   PNAS 105: 6959-6964 (http://www.pnas.org/cgi/content/abstract/105/19/6959)
8. Omar Tonsi Eldakar and David Sloan Wilson
   Selfishness as second-order altruism
   PNAS 105: 6982-6986 (http://www.pnas.org/cgi/content/abstract/105/19/6982)
9. Xiaohui Qu, Glenna J. Smith, Kang Taek Lee, Tobin R. Sosnick, Tao Pan and Norbert F. Scherer
   Single-molecule nonequilibrium periodic Mg2+-concentration jump experiments reveal details of the early folding pathways of a large RNA PNAS 105: 6602-6607
   (http://www.pnas.org/cgi/content/abstract/105/18/6602)
10. Sungsoo Na, Olivier Collin, Farhan Chowdhury, Bernard Tay, Mingxing Ouyang, Yingxiao Wang and Ning Wang
    Rapid signal transduction in living cells is a unique feature of mechanotransduction
    PNAS 105: 6626-6631 (http://www.pnas.org/cgi/content/abstract/105/18/6626)
11. Jennifer E. Mendell, Kendall D. Clements, J. Howard Choat, and Esther R. Angert

From the Cover: Extreme polyploidy in a large bacterium
PNAS 105: 6730-6734 (http://www.pnas.org/cgi/content/abstract/105/18/6730)

12. Dongtao Ren, Yidong Liu, Kwang-Yeol Yang, Ling Han, Guohong Mao, Jane Glazebrook and Shuqun Zhang
A fungal-responsive MAPK cascade regulates phytoalexin biosynthesis in Arabidopsis
PNAS 105: 5638-5643 (http://www.pnas.org/cgi/content/abstract/105/14/5638)

13. Nancy Adamek, Lynne M. Coluccio and Michael A. Geeves
Calcium sensitivity of the cross-bridge cycle of Myo1c, the adaptation motor in the inner ear
PNAS 105: 5710-5715 (http://www.pnas.org/cgi/content/abstract/105/15/5710)

14. Hasan Yardimci, Marilyn van Duffelen, Yinghui Mao, Steven S. Rosenfeld and Paul R. Selvin
The mitotic kinesin CENP-E is a processive transport motor
PNAS 105: 6016-6021 (http://www.pnas.org/cgi/content/abstract/105/16/6016)

15. Saul Lapidus, Bo Han and Jin Wang
Intrinsic noise, dissipation cost, and robustness of cellular networks: The underlying energy landscape of MAPK signal transduction
PNAS 105: 6039-6044 (http://www.pnas.org/cgi/content/abstract/105/16/6039)

16. Nicolas Stifani, Adriana R. O. Freitas, Anna Liakhovitskaia, Alexander Medvinsky, Artur Kania and Stefano Stifani
Suppression of interneuron programs and maintenance of selected spinal motor neuron fates by the transcription factor AML1/Runx1
PNAS 105: 6451-6456 (http://www.pnas.org/cgi/content/abstract/105/17/6451)

Proceedings of the Royal Society B

1. Matsumura, S. and Forster, P.
Generation time and effective population size in Polar Eskimos
Proceedings of the Royal Society B 275 (1642), 1501-1508 (2008)
(http://www.ncbi.nlm.nih.gov/pubmed/18364314)

2. Varvio, SL., Iso-Touru, T., Kantanen, J., Viitala, S., Tapio, I., Maki-Tanila, A., Zerabruk, M., and Vilkki, J.
Molecular anatomy of the cytoplasmic domain of bovine growth hormone receptor, a quantitative trait locus
Proceedings of the Royal Society B 275 (1642), 1525-1534 (2008)
(http://www.ncbi.nlm.nih.gov/pubmed/18381258)

Science

1. Stefano Allesina, David Alonso and Mercedes Pascual
A General Model for Food Web Structure
Science 320, 658-661 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5876/658)

2. Guillaume Drin, Vincent Morello, Jean-François Casella, Pierre Gounon and Bruno Antonny
Asymmetric Tethering of Flat and Curved Lipid Membranes by a Golgin
Science 320, 670-673 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5876/670)

3. Amelia Barreiro, Riccardo Rurali, Eduardo R. Hernández, Joel Moser, Thomas Pichler, László Forró and Adrian Bachtold
Subnanometer Motion of Cargoes Driven by Thermal Gradients Along Carbon Nanotubes
Science 320, 775-778 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5877/775)

4. Martin Loose, Elisabeth Fischer-Friedrich, Jonas Ries, Karsten Kruse and Petra Schwille
Spatial Regulators for Bacterial Cell Division Self-Organize into Surface Waves in Vitro
Science 320, 789-792 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5877/789)

5. Masaki Osawa, David E. Anderson and Harold P. Erickson
Reconstitution of Contractile FtsZ Rings in Liposomes
Science 320, 792-794 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5877/792)

6. Melissa Beth Duhaime, Sören Alsheimer, Ralitsa Angelova and Ian Fitzpatrick
In Defense of Max Planck - Letter
Science 320, 872 (2008) (http://www.sciencemag.org/cgi/content/full/320/5878/872b)

7. Mark W. Denny
The Intrigue of the Interface - Biophysics Perspective
Science 320, 886 (2008) (http://www.sciencemag.org/cgi/content/full/320/5878/886)

8. Luka Pocivavsek, Robert Dellsy, Andrew Kern, Sebastián Johnson, Binhua Lin, Ka Yee C. Lee and Enrique Cerda

Stress and Fold Localization in Thin Elastic Membranes
Science 320, 912-916 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5878/912)

9. Manu Prakash, David Quéré and John W. M. Bush
Surface Tension Transport of Prey by Feeding Shorebirds: The Capillary Ratchet
Science 320, 931-934 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5878/931)

10. Christopher J. Cardinale, Robert S. Washburn, Vasisht R. Tadigotla, Lewis M. Brown, Max E. Gottesman and Evgeny Nudler
Termination Factor Rho and Its Cofactors NusA and NusG Silence Foreign DNA in E. coli
Science 320, 935-938 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5878/935)

11. Matthew J. Bierman, Y. K. Albert Lau, Alexander V. Kvit, Andrew L. Schmitt and Song Jin
Dislocation-Driven Nanowire Growth and Eshelby Twist
Science 320, 1060-1063 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5879/1060)

12. Emilie Dressaire, Rodney Bee, David C. Bell, Alex Lips and Howard A. Stone
Interfacial Polygonal Nanopatterning of Stable Microbubbles
Science 320, 1198-1201 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5880/1198)

13. Eugene A. Gladyshev, Matthew Meselson and Irina R. Arkhipova
Massive Horizontal Gene Transfer in Bdelloid Rotifers
Science 320, 1210-1213 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5880/1210)

14. William O. H. Hughes, Benjamin P. Oldroyd, Madeleine Beekman and Francis L. W. Ratnieks
Ancestral Monogamy Shows Kin Selection Is Key to the Evolution of Eusociality
Science 320, 1213-1216 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5880/1213)

15. Stanislas Dehaene, Véronique Izard, Elizabeth Spelke and Pierre Pica
Log or Linear? Distinct Intuitions of the Number Scale in Western and Amazonian Indigene Cultures
Science 320, 1217-1220 (2008) (http://www.sciencemag.org/cgi/content/abstract/320/5880/1217)

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