

Journal Scan December 2008

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ArXiv

1. O. Kühn, N. Došlić, G. M. Krishnan, H. Fidler, K. Heyne
Anharmonic Vibrational Dynamics of DNA Oligomers (<http://arxiv.org/abs/0812.3335>)
2. Carlo R. Laing
Chimera states in heterogeneous networks (<http://arxiv.org/abs/0809.4048>)
3. Nils B. Becker, Ralf Everaers
DNA nano-mechanics: how proteins deform the double helix (<http://arxiv.org/abs/0809.3938>)
4. Niko Komin, Raúl Toral
Drug absorption through a cell monolayer: a theoretical work on a non-linear three-compartment model (<http://arxiv.org/abs/0805.3757>)
5. Melanie J.I. Muller, Stefan Klumpp, Reinhard Lipowsky
Motility states of molecular motors engaged in a stochastic tug-of-war (<http://arxiv.org/abs/0812.2779>)
6. Eric Lauga, Thomas R. Powers
The hydrodynamics of swimming microorganisms (<http://arxiv.org/abs/0812.2887>)
7. Emilio Hernandez-Garcia, Cristobal Lopez, Simone Pigolotti, Ken H. Andersen
Species competition: coexistence, exclusion and clustering (<http://arxiv.org/abs/0812.1279>)
8. Carlo Barbieri, Simona Cocco, Remi Monasson, Francesco Zamponi

- Dynamical modelling of molecular constructions and setups for DNA unzipping
(<http://arxiv.org/abs/0812.1180>)
9. Jörn Dunkel, Peter Hänggi
Relativistic Brownian Motion (<http://arxiv.org/abs/0812.1996>)

Bioinformatics

1. E. Cinquemani, A. Milias-Aregetis, S. Summers and J. Lygeros
Stochastic dynamics of genetic networks: modelling and parameter identification
(<http://bioinformatics.oxfordjournals.org/cgi/content/abstract/24/23/2748>)
2. B. Finkenstädt, E.A. Heron, M. Komorowski, K. Edwards, S. Tang, C.V. Harper, J.R.E. Davis, M.R.H. White, A.J. Millar and D.A. Rand
Reconstruction of transcriptional dynamics from gene reporter data using differential equations
(<http://bioinformatics.oxfordjournals.org/cgi/content/abstract/24/24/2901>)

Biophysical Journal

1. Alvaro H. Crevenna, Sineej Madathil, Daniel N. Cohen, Michael Wagenbach, Karim Fahmy and Jonathon Howard
Secondary Structure and Compliance of a Predicted Flexible Domain in Kinesin-1 Necessary for Cooperation of Motors (<http://www.biophysj.org/cgi/content/abstract/95/11/5216>)
2. Zdenek Petrášek, Carsten Hoege, Alireza Mashaghi, Thomas Ohrt, Anthony A. Hyman and Petra Schwillie
Characterization of Protein Dynamics in Asymmetric Cell Division by Scanning Fluorescence Correlation Spectroscopy (<http://www.biophysj.org/cgi/content/abstract/95/11/5476>)
3. Moshe Naoz, Uri Manor, Hirofumi Sakaguchi, Bechara Kachar and Nir S. Gov
Protein Localization by Actin Treadmilling and Molecular Motors Regulates Stereocilia Shape and Treadmilling Rate (<http://www.biophysj.org/cgi/content/abstract/95/12/5706>)
4. Petr G. Vikhorev, Natalia N. Vikhoreva and Alf Månsson
Bending Flexibility of Actin Filaments during Motor-Induced Sliding
(<http://www.biophysj.org/cgi/content/abstract/95/12/5809>)
5. Michael J. Rosenbluth, Ailey Crow, Joshua W. Shaevitz and Daniel A. Fletcher
Slow Stress Propagation in Adherent Cells (<http://www.biophysj.org/cgi/content/abstract/95/12/6052>)
6. Lan Lu, Sara J. Oswald, Hai Ngu and Frank C.-P. Yin
Mechanical Properties of Actin Stress Fibers in Living Cells
(<http://www.biophysj.org/cgi/content/abstract/95/12/6060>)

Cell

1. M.K. Gardner, D.C. Bouck, L.V. Paliulis, J.B. Meehl, E.T. O'Toole, J. Haase, A. Soubry, A.P. Joglekar, M. Winey, E.D. Salmon, K. Bloom and D.J. Odde
Chromosome Congression by Kinesin-5 Motor-Mediated Disassembly of Longer Kinetochore Microtubules ([http://www.cell.com/abstract/S0092-8674\(08\)01239-7](http://www.cell.com/abstract/S0092-8674(08)01239-7))
2. G.T. Shubeita, S.L. Tran, J. Xu, M. Vershinin, S. Cermelli, S.L. Cotton, M.A. Welte and S.P. Gross
Consequences of Motor Copy Number on the Intracellular Transport of Kinesin-1-Driven Lipid Droplets
([http://www.cell.com/abstract/S0092-8674\(08\)01313-5](http://www.cell.com/abstract/S0092-8674(08)01313-5))
3. A.G. Tsai, H. Lu, S.C. Raghavan, M. Muschen, C.-L. Hsieh and M.R. Lieber
Human Chromosomal Translocations at CpG Sites and a Theoretical Basis for Their Lineage and Stage Specificity ([http://www.cell.com/abstract/S0092-8674\(08\)01372-X](http://www.cell.com/abstract/S0092-8674(08)01372-X))

Development

1. Eric S. Veien, Judith S. Rosenthal, Renee C. Kruse-Bend, Chi-Bin Chien and Richard I. Dorsky
Canonical Wnt signaling is required for the maintenance of dorsal retinal identity
(<http://dev.biologists.org/cgi/content/abstract/135/24/4101>)
2. Weiyang Shi, Sara M. Peyrot, Edwin Munro and Michael Levine
FGF3 in the floor plate directs notochord convergent extension in the Ciona tadpole
(<http://dev.biologists.org/cgi/content/abstract/136/1/23>)
3. Gerald Schwank, Simon Restrepo, and Konrad Basler
Growth regulation by Dpp: an essential role for Brinker and a non-essential role for graded signaling levels (<http://dev.biologists.org/cgi/content/abstract/135/24/4003>)

European Physical Journal E

1. E. M. Gauger, M. T. Downton and H. Stark
Fluid transport at low Reynolds number with magnetically actuated artificial cilia
(http://epje.edpsciences.org/index.php?option=article&access=standard&Itemid=129&url=/articles/epje/abs/first/10189_2008_Article_9009/10189_2008_Article_9009.html)

Europhysics Letters

No contributions.

Journal of Cell Biology

No contributions.

Journal of the Royal Society Interface

No contributions.

Journal of Theoretical Biology

No contributions.

Nature

1. Gáspár Jékely, Julien Colombelli, Harald Hausen, Keren Guy, Ernst Stelzer, François Nédélec & Detlev Arendt
Mechanism of phototaxis in marine zooplankton
(<http://www.nature.com/nature/journal/v456/n7220/abs/nature07590.html>)
2. Jesse Stricker, Scott Cookson, Matthew R. Bennett, William H. Mather, Lev S. Tsimring & Jeff Hasty
A fast, robust and tunable synthetic gene oscillator
(<http://www.nature.com/nature/journal/v456/n7221/abs/nature07389.html>)
3. Claire Ainsworth
Cell biology: Stretching the imagination (<http://www.nature.com/news/2008/081210/full/456696a.html>)
4. Theresa Alenghat, Katherine Meyers, Shannon E. Mullican, Kirstin Leitner, Adetoun Adeniji-Adele, Jacqueline Avila, Maja Bucan, Rexford S. Ahima, Klaus H. Kaestner & Mitchell A. Lazar
Nuclear receptor corepressor and histone deacetylase 3 govern circadian metabolic physiology
(<http://www.nature.com/nature/journal/v456/n7224/abs/nature07541.html>)

Nature Cell Biology

No contributions.

Nature Reviews Molecular Cell Biology

1. Béla Novák & John J. Tyson
Design principles of biochemical oscillators
(<http://www.nature.com/nrm/journal/v9/n12/abs/nrm2530.html>)

Nature Neuroscience

1. Alexandre Pouget & Gregory C DeAngelis
Paying attention to correlated neural activity (<http://www.nature.com/neuro/journal/v11/n12/full/nn1208-1371.html>)

Nature Physics

No contributions.

Neuron

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1. Derek L.F. Garden, Paul D. Dodson, Cian O'Donnell, Melanie D. White and Matthew F. Nolan
Tuning of Synaptic Integration in the Medial Entorhinal Cortex to the Organization of Grid Cell Firing Fields ([http://www.cell.com/neuron/abstract/S0896-6273\(08\)00944-6](http://www.cell.com/neuron/abstract/S0896-6273(08)00944-6))

Physical Biology

1. Nathan D Dees, Sonya Bahar and Frank Moss
Stochastic resonance and the evolution of Daphnia foraging strategy
(<http://www.iop.org/EJ/abstract/1478-3975/5/4/044001>)
2. Wouter H Roos, Otger Campàs, Fabien Montel, Günther Woehlke, Joachim P Spatz, Patricia Bassereau and Giovanni Cappello
Dynamic kinesin-1 clustering on microtubules due to mutually attractive interactions
(<http://www.iop.org/EJ/abstract/1478-3975/5/4/046004>)
3. Wen Chen, Herbert Levine and Wouter-Jan Rappel
A mathematical analysis of second messenger compartmentalization
(<http://www.iop.org/EJ/abstract/1478-3975/5/4/046006>)

Physical Review E

1. **J. A. Roberts and P. A. Robinson**
Modeling distributed axonal delays in mean-field brain dynamics
(<http://link.aps.org/doi/10.1103/PhysRevE.78.051901>)
2. Yingzi Yang, Jens Elgeti, and Gerhard Gompper
Spatiotemporal coding of inputs for a system of globally coupled phase oscillators
(<http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=PLLEE800007800006066203000001&idtype=cvips&gifs=Yes>)
3. Yingzi Yang, Jens Elgeti, and Gerhard Gompper
Cooperation of sperm in two dimensions: Synchronization, attraction, and aggregation through hydrodynamic interactions (<http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=PLLEE800007800006061903000001&idtype=cvips&gifs=Yes>)
4. Andre S. Ribeiro
Dynamics and evolution of stochastic bistable gene networks with sensing in fluctuating environments
(<http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=PLLEE800007800006061902000001&idtype=cvips&gifs=Yes>)
5. S. Eule, R. Friedrich, F. Jenko, and I. M. Sokolov
Continuous-time random walks with internal dynamics and subdiffusive reaction-diffusion equations
(<http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=PLLEE800007800006060102000001&idtype=cvips&gifs=Yes>)
6. M. Ebrahim Foulaadvand, Anatoly B. Kolomeisky and H. Teymouri
Asymmetric exclusion processes with disorder: Effect of correlations
(<http://link.aps.org/doi/10.1103/PhysRevE.78.061116>)

Physical Review Letters

1. T. Maillart, D. Sornette, S. Spaeth, and G. von Krogh
Empirical Tests of Zipf's Law Mechanism in Open Source Linux Distribution
(<http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=PRLTAO000101000021218701000001&idtype=cvips&gifs=yes>)
2. M. Wyart, H. Liang, A. Kabla, and L. Mahadevan
Elasticity of Floppy and Stiff Random Networks
(<http://link.aps.org/doi/10.1103/PhysRevLett.101.215501>)
3. Hui Wang,¹ Ned S. Wingreen,² and Ranjan Mukhopadhyay
Self-Organized Periodicity of Protein Clusters in Growing Bacteria
(<http://link.aps.org/doi/10.1103/PhysRevLett.101.218101>)
4. Ghee Hwee Lai,¹ John C. Butler,² Olena V. Zribi,¹ Ivan I. Smalyukh,^{2,3} Thomas E. Angelini,^{1,4} Kirstin R. Purdy,² Ramin Golestanian,⁵ and Gerard C. L. Wong
Self-Organized Gels in DNA/F-Actin Mixtures without Crosslinkers: Networks of Induced Nematic Domains with Tunable Density (<http://link.aps.org/doi/10.1103/PhysRevLett.101.218303>)
5. Pietro Tierno,^{1,4} Ramin Golestanian,² Ignacio Pagonabarraga,^{3,4} and Francesc Sagués
Controlled Swimming in Confined Fluids of Magnetically Actuated Colloidal Rotors
(<http://link.aps.org/doi/10.1103/PhysRevLett.101.218304>)
6. Xiangyun Qiu, Kurt Andresen, Jessica S. Lamb, Lisa W. Kwok, and Lois Pollack

- Abrupt Transition from a Free, Repulsive to a Condensed, Attractive DNA Phase, Induced by Multivalent Polyamine Cations (<http://link.aps.org/doi/10.1103/PhysRevLett.101.228101>)
7. S. J. Green, J. Bath, and A. J. Turberfield
Coordinated Chemomechanical Cycles: A Mechanism for Autonomous Molecular Motion (<http://link.aps.org/doi/10.1103/PhysRevLett.101.238101>)
 8. Nam-Kyung Lee,^{1,2} Jin-Sung Park,³ Albert Johner,² Sergei Obukhov,^{4,2} Ju-Yong Hyon,⁵ Kyoung J. Lee,³ and Seok-Cheol Hong
Elasticity of Cisplatin-Bound DNA Reveals the Degree of Cisplatin Binding (<http://link.aps.org/doi/10.1103/PhysRevLett.101.248101>)
 9. Delphine Arcizet,^{1,2} Börn Meier,¹ Erich Sackmann,³ Joachim O. Rädler,¹ and Doris Heinrich
Temporal Analysis of Active and Passive Transport in Living Cells (<http://link.aps.org/doi/10.1103/PhysRevLett.101.248103>)
 10. Zu Thur Yew, Tom McLeish, and Emanuele Paci
New Dynamical Window onto the Landscape for Forced Protein Unfolding (<http://link.aps.org/doi/10.1103/PhysRevLett.101.248104>)
 11. Jun-nosuke Teramae and Tomoki Fukai
Temporal Precision of Spike Response to Fluctuating Input in Pulse-Coupled Networks of Oscillating Neurons (<http://link.aps.org/doi/10.1103/PhysRevLett.101.248105>)
 12. Maikel C. Rheinstädter,^{1,2} Jhuma Das,¹ Elijah J. Flenner,¹ Beate Brüning,^{2,3} Tilo Seydel,² and Ioan Kosztin
Motional Coherence in Fluid Phospholipid Membranes (<http://link.aps.org/doi/10.1103/PhysRevLett.101.248106>)
 13. Douglas B. Staple, Stephen H. Payne, Andrew L. C. Reddin, and Hans Jürgen Kreuzer
Model for Stretching and Unfolding the Giant Multidomain Muscle Protein Using Single-Molecule Force Spectroscopy (<http://link.aps.org/doi/10.1103/PhysRevLett.101.248301>)
 14. Ulrich Dobramysl and Uwe C. Täuber
Spatial Variability Enhances Species Fitness in Stochastic Predator-Prey Interactions (<http://link.aps.org/doi/10.1103/PhysRevLett.101.258102>)

PLoS Biology

1. Laskowski M, Grieneisen VA, Hofhuis H, Hove CA, Hogeweg P, Marée AF, Scheres B
Root system architecture from coupling cell shape to auxin transport (<http://biology.plosjournals.org/perlserv/?request=get-document&doi=10.1371/journal.pbio.0060307>)
2. Albeck JG, Burke JM, Spencer SL, Lauffenburger DA, Sorger PK
Modeling a snap-action, variable-delay switch controlling extrinsic cell death (<http://biology.plosjournals.org/perlserv/?request=get-document&doi=10.1371/journal.pbio.0060299>)
3. Tiwari VK, McGarvey KM, Licchesi JD, Ohm JE, Herman JG, Schübeler D, Baylin SB
PcG proteins, DNA methylation, and gene repression by chromatin looping (<http://biology.plosjournals.org/perlserv/?request=get-document&doi=10.1371/journal.pbio.0060306>)
4. Crocker J, Tamori Y, Erives A
Evolution acts on enhancer organization to fine-tune gradient threshold readouts (<http://biology.plosjournals.org/perlserv/?request=get-document&doi=10.1371/journal.pbio.0060263>)
5. Levy SF, Siegal ML
Network hubs buffer environmental variation in *Saccharomyces cerevisiae* (<http://biology.plosjournals.org/perlserv/?request=get-document&doi=10.1371/journal.pbio.0060264>)

PLoS Computational Biology

1. Karl Friston
Hierarchical Models in the Brain (<http://www.ploscompbiol.org/article/info%3Adoi%2F10.1371%2Fjournal.pcbi.1000211>)
2. Merav Parter, Nadav Kashtan, Uri Alon
Facilitated Variation: How Evolution Learns from Past Environments To Generalize to New Environments (<http://www.ploscompbiol.org/article/info%3Adoi%2F10.1371%2Fjournal.pcbi.1000206>)
3. Stefan J. Kiebel, Jean Daunizeau, Karl J. Friston
A Hierarchy of Time-Scales and the Brain (<http://www.ploscompbiol.org/article/info%3Adoi%2F10.1371%2Fjournal.pcbi.1000209>)
4. Andreea Munteanu, Ricard V. Solé
Neutrality and Robustness in Evo-Devo: Emergence of Lateral Inhibition (<http://www.ploscompbiol.org/article/info%3Adoi%2F10.1371%2Fjournal.pcbi.1000226>)

PNAS

1. Martinez AW, Phillips ST, Whitesides GM
Three-dimensional microfluidic devices fabricated in layered paper and tape
(<http://www.pnas.org/content/105/50/19606>)
2. Ueno H, Yasunaga T, Shingyoji C, Hirose K
Dynein pulls microtubules without rotating its stalk (<http://www.pnas.org/content/105/50/19702>)
3. Livnat A, Papadimitriou C, Dushoff J, Feldman MW
A mixability theory for the role of sex in evolution (<http://www.pnas.org/content/105/50/19803>)
4. Altimus CM, Güler AD, Villa KL, McNeill DS, Legates TA, Hattar S
Rods-cones and melanopsin detect light and dark to modulate sleep independent of image formation
(<http://www.pnas.org/content/105/50/19998>)
5. Various
The December 9, 2008 issue has a special series of articles on movement ecology which may be of interest. (<http://www.pnas.org/content/105/49/19050>)
6. Yin J, Cao Z, Li C, Sheinman I, Chen X
Stress-driven buckling patterns in spheroidal core/shell structures
(<http://www.pnas.org/content/105/49/19132>)
7. Schultz D, Walczak AM, Onuchic JN, Wolynes PG
Extinction and resurrection in gene networks (<http://www.pnas.org/content/105/49/19165>)
8. Lipatov M, Li S, Feldman MW
cultural transmission, and the dynamics of the sex ratio at birth in China
(<http://www.pnas.org/content/105/49/Economics>)
9. Khalil AS, Appleyard DC, Labno AK, Georges A, Karplus M, Belcher AM, Hwang W, Lang MJ
Kinesin's cover-neck bundle folds forward to generate force
(<http://www.pnas.org/content/105/49/19247>)
10. Huang KC, Mukhopadhyay R, Wen B, Gitai Z, Wingreen NS
Cell shape and cell-wall organization in Gram-negative bacteria
(<http://www.pnas.org/content/105/49/19282>)
11. Slack MD, Martinez ED, Wu LF, Altschuler SJ
Characterizing heterogeneous cellular responses to perturbations
(<http://www.pnas.org/content/105/49/19306>)

Proceedings of the Royal Society B

No contributions.

Science

1. S. Dürr, Z. Fodor, J. Frison, C. Hoelbling, R. Hoffmann, S. D. Katz, S. Krieg, T. Kurth, L. Lellouch, T. Lippert, K. K. Szabo and G. Vulvert
Ab Initio Determination of Light Hadron Masses
(<http://www.sciencemag.org/cgi/content/abstract/sci;322/5905/1224>)
2. Chaitanya A. Athale, Ana Dinarina, Maria Mora-Coral, Céline Pugieux, Francois Nedelec and Eric Karsenti
Regulation of Microtubule Dynamics by Reaction Cascades Around Chromosomes
(<http://www.sciencemag.org/cgi/content/full/322/5905/1243>)
3. Eleanor R. Haine, Yannick Moret, Michael T. Siva-Jothy and Jens Rolff
Antimicrobial Defense and Persistent Infection in Insects
(<http://www.sciencemag.org/cgi/content/full/322/5905/1257>)
4. Ariane Dimitrov, Mélanie Quesnoit, Sandrine Moutel, Isabelle Cantaloube, Christian Poüs and Franck Perez
Detection of GTP-Tubulin Conformation in Vivo Reveals a Role for GTP Remnants in Microtubule Rescues (<http://www.sciencemag.org/cgi/content/abstract/322/5906/1353>)
5. Amy McMahon, Willy Supatto, Scott E. Fraser and Angelike Stathopoulos
Dynamic Analyses of Drosophila Gastrulation Provide Insights into Collective Cell Migration
(<http://www.sciencemag.org/cgi/content/full/322/5907/1546>)
6. Julie C. Canman, Lindsay Lewellyn, Kimberley Laband, Stephen J. Smerdon, Arshad Desai, Bruce Bowerman and Karen Oegema
Inhibition of Rac by the GAP Activity of Centralspindlin Is Essential for Cytokinesis
(<http://www.sciencemag.org/cgi/content/full/322/5907/1543>)
7. Allan B. James, José A. Monreal, Gillian A. Nimmo, Ciarán L. Kelly, Pawel Herzyk, Gareth I. Jenkins and Hugh G. Nimmo
The Circadian Clock in Arabidopsis Roots Is a Simplified Slave Version of the Clock in Shoots

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(<http://www.sciencemag.org/cgi/content/full/322/5909/1832>)

8. Leighton J. Core, Joshua J. Waterfall and John T. Lis

Nascent RNA Sequencing Reveals Widespread Pausing and Divergent Initiation at Human Promoters

(<http://www.sciencemag.org/cgi/content/full/322/5909/1845>)

9. O. Hamant, M. G. Heisler, H. Jönsson, P. Krupinski, M. Uyttewaal, P. Bokov, F. Corson, P. Sahlin, A. Boudaoud, E. M. Meyerowitz, Y. Couder, and J. Traas

Developmental Patterning by Mechanical Signals in Arabidopsis

(<http://www.sciencemag.org/cgi/content/full/322/5908/1650>)

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