

Journal Scan May 2008

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Back to Biophys Journal Scan.

List of Journal Scan Assignments.

Contents

- 1 ArXiv
- 2 Bioinformatics
- 3 Biophysical Journal
- 4 Cell
- 5 Development
- 6 European Physical Journal E
- 7 Europhysics Letters
- 8 Journal of Cell Biology
- 9 Journal of the Royal Society Interface
- 10 Journal of Theoretical Biology
- 11 Nature
- 12 Nature Cell Biology
- 13 Nature Neuroscience
- 14 Nature Physics
- 15 Neuron
- 16 Physical Biology
- 17 Physical Review E
- 18 Physical Review Letters
- 19 PLoS Biology
- 20 PLoS Computational Biology
- 21 PLoS ONE
- 22 PNAS
- 23 Science

ArXiv

1. Pierre-Henri Chavanis
A stochastic Keller-Segel model of chemotaxis
arXiv:0804.4425v1 [cond-mat.stat-mech (<http://arxiv.org/abs/0804.4425v1>)]
2. Rui Dilao
On the problem of synchronization of identical dynamical systems: The Huygens's clocks
arXiv:0804.3162v1 [nlin.CD (<http://arxiv.org/abs/0804.3162>)]
3. D. V. Senthilkumar, M. Lakshmanan, J. Kurths
Transition from phase to generalized synchronization in time-delay systems
arXiv:0804.3270v1 [nlin.CD (<http://arxiv.org/abs/0804.3270>)]
4. Guy Katriel
Synchronization of oscillators coupled through an environment
arXiv:0804.3734v1 [nlin.AO (<http://arxiv.org/abs/0804.3734v1>)]
5. M. Bier, F. J. Cao
How occasional backstepping can speed up a processive motor protein
arXiv:0804.2055v1 [q-bio.SC (<http://arxiv.org/abs/0804.2055>)]
6. R Rajesh, D Giri, I. Jensen, S. Kumar
Role of pulling direction in understanding the energy landscape of proteins

arXiv:0806.4677 [cond-mat.stat-mech (<http://arxiv.org/abs/0806.4677>)]

7. M. D. El Alaoui Faris, D. Lacoste, J. Pecreaux, J-F. Joanny, J. Prost, P. Bassereau
Membrane tension lowering induced by protein activity
arXiv:0807.0081 [cond-mat.soft (<http://arxiv.org/abs/0807.0081>)]
8. Aparna Baskaran, M. Cristina Marchetti
Enhanced diffusion and ordering of self-propelled rods
arXiv:0806.4559 [cond-mat.soft (<http://arxiv.org/abs/0806.4559>)]

Bioinformatics

1. Bayu Jayawardhana, Douglas B. Kell and Magnus Rattray
Bayesian inference of the sites of perturbations in metabolic pathways via Markov chain Monte Carlo
Bioinformatics 24: 1191-1197
2. Yung-Keun Kwon and Kwang-Hyun Cho
Quantitative analysis of robustness and fragility in biological networks based on feedback dynamics
Bioinformatics 24: 987-994

Biophysical Journal

1. Imran H. Quraishi and Robert M. Raphael
Generation of the Endocochlear Potential: A Biophysical Model
Biophys. J. 94: L64-66L. (<http://www.biophysj.org/cgi/content/abstract/94/8/L64>)
2. **Mark Bathe, Claus Heussinger, Mireille M. A. E. Claessens, Andreas R. Bausch and Erwin Frey**
Cytoskeletal Bundle Mechanics
Biophys. J. 94: 2955-2964. (<http://www.biophysj.org/cgi/content/abstract/94/8/2955>)
3. Jennifer L. Ross, Henry Shuman, Erika L. F. Holzbaur and Yale E. Goldman
Kinesin and Dynein-Dynactin at Intersecting Microtubules: Motor Density Affects Dynein Function
Biophys. J. 94: 3115-3125. (<http://www.biophysj.org/cgi/content/abstract/94/8/3115>)
4. Poul M. Bendix, Gijssje H. Koenderink, Damien Cuvelier, Zvonimir Dogic, Bernard N. Koeleman, William M. Briehar, Christine M. Field, L. Mahadevan and David A. Weitz
A Quantitative Analysis of Contractility in Active Cytoskeletal Protein Networks
Biophys. J. 94: 3126-3136. (<http://www.biophysj.org/cgi/content/abstract/94/8/3126>)
5. Gregory S. Watson, Sverre Myhra, Bronwen W. Cribb and Jolanta A. Watson
Putative Functions and Functional Efficiency of Ordered Cuticular Nanoarrays on Insect Wings
Biophys. J. 94: 3352-3360. (<http://www.biophysj.org/cgi/content/abstract/94/8/3352>)

Cell

Development

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Computer simulation of emerging asymmetry in the mouse blastocyst
Development 2008 135: 1407-1414

European Physical Journal E

1. J Charvolin, J. -F Sadoc
A geometrical template for toroidal aggregates of chiral macromolecules
Eur Phys J E **25**, 335-341 (2008)
2. R. Finken, A. Lamura, U. Seifert and G. Gompper
Two-dimensional fluctuating vesicles in linear shear flow
Eur Phys J E **25**, 309-321 (2008)
3. S. Sinha, T. Dutta and S. Tarafdar
Adhesion and fingering in the lifting Hele-Shaw cell: Role of the substrate
Eur Phys J E **25**, 267-275 (2008)
4. S Bénito, CH Bruneau, T Colin, C Gay and F Molino

An elasto-visco-plastic model for immortal foams or emulsions

Eur Phys J E **25**, 225–251 (2008)

5. I. Llopis and I. Pagonabarraga
Hydrodynamic regimes of active rotators at fluid interfaces
Eur Phys J E (2008), Online First
6. S. Koizumi, Z. Yue, Y. Tomita, T. Kondo, H. Iwase, D. Yamaguchi and T. Hashimoto
Bacterium organizes hierarchical amorphous structure in microbial cellulose
Eur Phys J E (2008), Online First

Europhysics Letters

1. H.J. Wang H. B. Huang, G. X. Qi and L. Chen
Dynamical symmetry and synchronization in modular networks
Europhys. Lett. **81**, 60005 (2008)
2. S. Tomic, S Dolanki Babic et al.
Short-fragment Na-DNA dilute aqueous solutions: Fundamental length scales and screening
Europhys. Lett. **81**, 68003 (2008)
3. J. P. Bagrow, E. M. Bollt, J. Skufka and D. Ben-Avraham
Portraits of complex networks
Europhys. Lett. **81**, 68004 (2008)

Journal of Cell Biology

Journal of the Royal Society Interface

Journal of Theoretical Biology

Nature

1. **Tim Lämmermann, Bernhard L. Bader, Susan J. Monkley, Tim Worbs, Roland Wedlich-Söldner, Karin Hirsch, Markus Keller, Reinhold Förster, David R. Critchley, Reinhard Fässler & Michael Sixt**
Rapid leukocyte migration by integrin-independent flowing and squeezing
Nature 453, 51-55 (1 May 2008) (<http://www.nature.com/nature/journal/v453/n7191/full/nature06887.html>)
2. Aaron Clauset, Christopher Moore & M. E. J. Newman
Hierarchical structure and the prediction of missing links in networks
Nature 453, 98-101 (1 May 2008) (<http://www.nature.com/nature/journal/v453/n7191/full/nature06830.html>)
3. Ali D. Güler, Jennifer L. Ecker, Gurprit S. Lall, Shafiqul Haq, Cara M. Altimus, Hsi-Wen Liao, Alun R. Barnard, Hugh Cahill, Tudor C. Badea, Haiqing Zhao, Mark W. Hankins, David M. Berson, Robert J. Lucas, King-Wai Yau & Samer Hattar
Melanopsin cells are the principal conduits for rod–cone input to non-image-forming vision
Nature 453, 102-105 (1 May 2008) (<http://www.nature.com/nature/journal/v453/n7191/full/nature06829.html>)
4. Eulàlia Belloc & Raúl Méndez
A deadenylation negative feedback mechanism governs meiotic metaphase arrest
Nature 452, 1017-1021 (24 April 2008)
(<http://www.nature.com/nature/journal/v452/n7190/full/nature06809.html>)
5. Christian N. K. Anderson I, Chih-hao Hsieh, Stuart A. Sandin, Roger Hewitt, Anne Hollowed, John Beddington, Robert M. May & George Sugihara
Why fishing magnifies fluctuations in fish abundance
Nature 452, 835-839 (17 April 2008)
(<http://www.nature.com/nature/journal/v452/n7189/full/nature06851.html>)
6. Mark Isalan, Caroline Lemerle, Konstantinos Michalodimitrakis, Carsten Horn, Pedro Beltrao, Emanuele Raineri, Mireia Garriga-Canut & Luis Serrano
Evolvability and hierarchy in rewired bacterial gene networks
Nature 452, 840-845 (17 April 2008)
(<http://www.nature.com/nature/journal/v452/n7189/full/nature06847.html>)

Nature Cell Biology

1. Alberto Sanchez-Diaz, Vanessa Marchesi, Stephen Murray, Richard Jones, Gislene Pereira, Ricky Edmondson, Terry Allen & Karim Labib
Inn1 couples contraction of the actomyosin ring to membrane ingression during cytokinesis in budding yeast
NCB, 10, 4: 395 - 406
2. M. Krieg, Y. Arboleda-Estudillo, P.-H. Puech, J. Käfer, F. Graner, D. J. Müller & C.-P. Heisenberg
Tensile forces govern germ-layer organization in zebrafish
NCB, 10, 4: 429 - 436

Nature Neuroscience

1. Ragnhildur Káradóttir, Nicola B Hamilton, Yamina Bakiri & David Attwell
Spiking and nonspiking classes of oligodendrocyte precursor glia in CNS white matter
Nat. Neurosci. 11, 450–456 (2008).
2. Anju Vasudevan, Jason E Long, James E Crandall, John L R Rubenstein & Pradeep G Bhide
Compartment-specific transcription factors orchestrate angiogenesis gradients in the embryonic brain
Nat. Neurosci. 11, 429–439 (2008).
3. Kara G Pratt, Wei Dong & Carlos D Aizenman
Development and spike timing-dependent plasticity of recurrent excitation in the Xenopus optic tectum
Nat. Neurosci. 11, 467–475 (2008).
4. Michael Okun and Ilan Lampl
Instantaneous correlation of excitation and inhibition during ongoing and sensory-evoked activities
Nature Neuroscience 11, 535 - 537 (2008) (<http://www.nature.com/neuro/journal/v11/n5/full/nn.2105.html>)
5. John R Huxter, Timothy J Senior, Kevin Allen & Jozsef Csicsvari
Theta phase-specific codes for two-dimensional position, trajectory and heading in the hippocampus
Nature Neuroscience 11, 587 - 594 (2008) (<http://www.nature.com/neuro/journal/v11/n5/full/nn.2106.html>)
6. Kenji Doya
Modulators of decision making
Nature Neuroscience 11, 410 - 416 (2008) (<http://www.nature.com/neuro/journal/v11/n4/full/nn2077.html>)

Nature Physics

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1. Evgueniy V. Lubenov and Athanassios G. Siapas
Decoupling through Synchrony in Neuronal Circuits with Propagation Delays
Neuron 58(1), 118-131 (2008) (<http://www.neuron.org/content/article/fulltext?uid=PIIS0896627308001281>)
2. Surya Ganguli, James W. Bisley, Jamie D. Roitman, Michael N. Shadlen, Michael E. Goldberg, and Kenneth D. Miller
One-Dimensional Dynamics of Attention and Decision Making in LIP
Neuron 58(1), 15-25 (2008) (<http://www.neuron.org/content/article/fulltext?uid=PIIS0896627308001682>)

Physical Biology

1. Comron Nouri, Roel Luppens, Arthur Veldman, Jack Tuszynski and Richard Gordon
Rayleigh instability of the inverted one-cell amphibian embryo
Phys. Biol. 5(2008) 015006 (<http://www.iop.org/EJ/toc/-ff30=all/-ffissn=1478-3975>)

Physical Review E

1. Luis Dinis
Optimal sequence for Parrondo games
Physical Review E 77, 021124 (2008) (<http://link.aps.org/abstract/PRE/v77/e021124>)
2. Eldon Emberly

Optimizing the readout of morphogen gradients

Phys. Rev. E 77, 041903 (2008) (<http://link.aps.org/abstract/PRE/v77/e041903>)

3. Max N. Artyomov, Alexander Yu. Morozov and Anatoly B. Kolomeisky
Molecular motors interacting with their own tracks
Phys. Rev. E 77, 040901(R) (2008) (<http://link.aps.org/abstract/PRE/v77/e040901>)
4. Aaditya V. Rangan, Gregor Kovačič, and David Cai
Kinetic theory for neuronal networks with fast and slow excitatory conductances driven by the same spike train
Phys. Rev. E 77, 041915 (2008) (<http://link.aps.org/abstract/PRE/v77/e041915>)

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1. Dunne JA, Williams RJ, Martinez ND, Wood RA, Erwin DH.
Compilation and network analyses of cambrian food webs.
PLoS Biol. 2008 Apr 29;6(4):e102
2. Hatzold J, Conradt B.
Control of apoptosis by asymmetric cell division.
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3. Hughes JR, Meireles AM, Fisher KH, Garcia A, Antrobus PR, Wainman A, Zitzmann N, Deane C, Ohkura H, Wakefield JG.
A microtubule interactome: complexes with roles in cell cycle and mitosis.
PLoS Biol. 2008 Apr 22;6(4):e98.
4. Eberle AB, Stalder L, Mathys H, Orozco RZ, Mühlemann O.
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PLoS Biol. 2008 Apr 29;6(4):e92
5. Paegel BM, Joyce GF.
Darwinian evolution on a chip.
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6. Biais N, Ladoux B, Higashi D, So M, Sheetz M.
Cooperative retraction of bundled type IV pili enables nanonewton force generation.
PLoS Biol. 2008 Apr 15;6(4):e87.

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1. A Proposed Mechanism for the Interaction of the Segmentation Clock and the Determination Front in Somitogenesis
Moisés Santillán, Michael C. Mackey
PLoS ONE 3, e1561 (2008)
(<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0001561>)

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1. Lacasa, L; Luque, B; Ballesteros, F; Luque, J; Nuno, JC
From time series to complex networks: The visibility graph
PNAS, 105 (13):4972-4975; APR 1 2008
2. Ptacnik, R; Solimini, AG; Andersen, T; Tamminen, T; Brettum, P; Lepisto, L; Willen, E; Rekolainen, S
Diversity predicts stability and resource use efficiency in natural phytoplankton communities
PNAS, 105 (13):5134-5138; APR 1 2008
3. Muller, MJI; Klumpp, S; Lipowsky, R
Tug-of-war as a cooperative mechanism for bidirectional cargo transport by molecular motors
PNAS, 105 (12):4609-4614; MAR 25 2008
4. Arany, Z; Wagner, BK; Ma, Y; Chinsomboon, J; Laznik, D; Spiegelman, BM
Gene expression-based screening identifies microtubule inhibitors as inducers of PGC-1 alpha and oxidative

- phosphorylation
PNAS, 105 (12):4721-4726; MAR 25 2008
5. Lee Hsiang Liow, Mikael Fortelius, Ella Bingham, Kari Lintulaakso, Heikki Mannila, Larry Flynn and Nils Chr. Stenseth
Higher origination and extinction rates in larger mammals
PNAS 105: 6097-6102
 6. Daphne Manoussaki, Richard S. Chadwick, Darlene R. Ketten, Julie Arruda, Emiliós K. Dimitriadis and Jen T. O'Malley
The influence of cochlear shape on low-frequency hearing
PNAS 105: 6162-6166
 7. S. Condamin, V. Tejedor, R. Voituriez, O. Bénichou, and J. Klafter
Probing microscopic origins of confined subdiffusion by first-passage observables
PNAS 105: 5675-5680
 8. Eli Paster and William S. Ryu
The thermal impulse response of Escherichia coli
PNAS 105: 5373-5377
 9. Long Miao, Orion Vanderlinde, Jun Liu, Richard P. Grant, Alan Wouterse, Katsuya Shimabukuro, Albert Philipse, Murray Stewart, and Thomas M. Roberts
The role of filament-packing dynamics in powering amoeboid cell motility
PNAS 105: 5390-5395

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1. Dantas, et al. (4 April 2008)
Bacteria Subsisting on Antibiotics
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2. Harris, et al. (4 April 2008)
Single-Molecule DNA Sequencing of a Viral Genome
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3. Lakatos, et al. (4 April 2008)
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4. D. Chereau, M. Boczkowska, A. Skwarek-Maruszewska, I. Fujiwara, D. B. Hayes, G. Rebowski, P. Lappalainen, T. D. Pollard, and R. Dominguez (11 April 2008)
Leiomodin Is an Actin Filament Nucleator in Muscle Cells
Science 320 (5873), 239-243. [DOI: 10.1126/science.1155313]
5. V. Westphal, S. O. Rizzoli, M. A. Lauterbach, D. Kamin, R. Jahn, and S. W. Hell (11 April 2008)
Video-Rate Far-Field Optical Nanoscopy Dissects Synaptic Vesicle Movement
Science 320 (5873), 246-249. [DOI: 10.1126/science.1154228]
6. Binder (18 April 2008)
MATHEMATICS: Frustration in Complexity
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7. Watkins and Freeman (18 April 2008)
GEOSCIENCE: Natural Complexity
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8. Hillenmeyer et al. (18 April 2008)
The Chemical Genomic Portrait of Yeast: Uncovering a Phenotype for All Genes
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9. L. J. Hall, V. R. Coluci, D. S. Galvão, M. E. Kozlov, M. Zhang, S. O. Dantas, and R. H. Baughman (25 April 2008)
Sign Change of Poisson's Ratio for Carbon Nanotube Sheets
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Role of *C. elegans* TAT-1 Protein in Maintaining Plasma Membrane Phosphatidylserine Asymmetry
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11. J. Mercer, and A. Helenius (25 April 2008)
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Science 320 (5875), 531-535. [DOI: 10.1126/science.1155164]

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