

Journal Scan January 2009

From planet.pks

Back to Biophys Journal Scan.

List of Journal Scan Assignments.

-
 represents a new line and # numbers the citations in your section.
- Copy and paste the template as is and omit empty lines between entries.
- Include a URL for the abstract in place of <http://abstract.citation> (the square brackets will take care of linking).

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 PNAS
- 22 Proceedings of the Royal Society B
- 23 Science

ArXiv

1. Carlos P. Roca, Jose A. Cuesta, Angel Sanchez
Promotion of cooperation on networks? The myopic best response case (<http://arxiv.org/abs/0901.0355>)
2. Yunxin Zhang
Properties of tug-of-war model for cargo transport by molecular motors (<http://arxiv.org/abs/0901.0350>)

Bioinformatics

1. Adi Laurentiu Tarca, Sorin Draghici, Purvesh Khatri, Sonia S. Hassan, Pooja Mittal, Jung-sun Kim, Chong Jai Kim, Juan Pedro Kusanovic, and Roberto Romero
A novel signaling pathway impact analysis
(<http://bioinformatics.oxfordjournals.org/cgi/content/abstract/25/1/75>)
2. Xuebing Wu, Qifang Liu and Rui Jiang
Align human interactome with phenome to identify causative genes and networks underlying disease families (<http://bioinformatics.oxfordjournals.org/cgi/content/abstract/25/1/98>)

Biophysical Journal

1. Beate West, Frank L.H. Brown and Friederike Schmid
Membrane-Protein Interactions in a Generic Coarse-Grained Model for Lipid Bilayers
([http://www.cell.com/biophysj/abstract/S0006-3495\(08\)00005-2](http://www.cell.com/biophysj/abstract/S0006-3495(08)00005-2))
2. Zoltán Ujfalusi, Andrea Vig, Gábor Hild and Miklós Nyitrai
Effect of Tropomyosin on Formin-Bound Actin Filaments ([http://www.cell.com/biophysj/abstract/S0006-3495\(08\)00025-8](http://www.cell.com/biophysj/abstract/S0006-3495(08)00025-8))
3. Léa-Laetitia Pontani, Jasper van der Gucht, Guillaume Salbreux, Julien Heuvingh, Jean-François Joanny and Cécile Sykes
Reconstitution of an Actin Cortex Inside a Liposome ([http://www.cell.com/biophysj/abstract/S0006-3495\(08\)00038-6](http://www.cell.com/biophysj/abstract/S0006-3495(08)00038-6))
4. Myriam Allieux-Guérin, Delphine Icard-Arcizet, Christiane Durieux, Sylvie Hénon, François Gallet, Jean-Claude Mevel, Marie-Jo Masse, Marc Tramier and Maité Coppey-Moisan
Spatiotemporal Analysis of Cell Response to a Rigidity Gradient: A Quantitative Study Using Multiple Optical Tweezers ([http://www.cell.com/biophysj/abstract/S0006-3495\(08\)00018-0](http://www.cell.com/biophysj/abstract/S0006-3495(08)00018-0))

Cell

...mpg.de/.../Journal_Scan_January_...

- Information-related changes in contact patterns may trigger oscillations in the endemic prevalence of infectious diseases ([http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WMD-4TPHS0B-1&_user=42421&_coverDate=02%2F07%2F2009&_rdoc=20&_fmt=high&_orig=browse&_srch=doc-info\(%23toc%236932%232009%23997439998%23746069%23FLA%23display%23Volume\)&_cdi=6932&_sort=d&_docanchor=&_ct=21&_acct=C000002818&_version=](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WMD-4TPHS0B-1&_user=42421&_coverDate=02%2F07%2F2009&_rdoc=20&_fmt=high&_orig=browse&_srch=doc-info(%23toc%236932%232009%23997439998%23746069%23FLA%23display%23Volume)&_cdi=6932&_sort=d&_docanchor=&_ct=21&_acct=C000002818&_version=))
3. Jason T. Noel, Sergei S. Pilyugin, Atul Narang
The diffusive influx and carrier efflux have a strong effect on the bistability of the lac operon in *Escherichia coli* ([http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WMD-4TG9J26-5&_user=42421&_coverDate=01%2F07%2F2009&_rdoc=3&_fmt=high&_orig=browse&_srch=doc-info\(%23toc%236932%232009%23997439998%23746069%23FLA%23display%23Volume\)&_cdi=6932&_sort=d&_docanchor=&_ct=16&_acct=C000002818&_version=](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WMD-4TG9J26-5&_user=42421&_coverDate=01%2F07%2F2009&_rdoc=3&_fmt=high&_orig=browse&_srch=doc-info(%23toc%236932%232009%23997439998%23746069%23FLA%23display%23Volume)&_cdi=6932&_sort=d&_docanchor=&_ct=16&_acct=C000002818&_version=))
 4. Atsuko Takamatsu, Eri Takaba, Ginjiro Takizawa
Environment-dependent morphology in plasmodium of true slime mold *Physarum polycephalum* and a network growth model ([http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WMD-4TJ6FS7-2&_user=42421&_coverDate=01%2F07%2F2009&_rdoc=4&_fmt=high&_orig=browse&_srch=doc-info\(%23toc%236932%232009%23997439998%23746069%23FLA%23display%23Volume\)&_cdi=6932&_sort=d&_docanchor=&_ct=16&_acct=C000002818&_version=](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WMD-4TJ6FS7-2&_user=42421&_coverDate=01%2F07%2F2009&_rdoc=4&_fmt=high&_orig=browse&_srch=doc-info(%23toc%236932%232009%23997439998%23746069%23FLA%23display%23Volume)&_cdi=6932&_sort=d&_docanchor=&_ct=16&_acct=C000002818&_version=))
 5. John A. Byers
Modeling distributions of flying insects: Effective attraction radius of pheromone in two and three dimensions ([http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WMD-4TG9J26-6&_user=42421&_coverDate=01%2F07%2F2009&_rdoc=9&_fmt=high&_orig=browse&_srch=doc-info\(%23toc%236932%232009%23997439998%23746069%23FLA%23display%23Volume\)&_cdi=6932&_sort=d&_docanchor=&_ct=16&_acct=C000002818&_version=](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WMD-4TG9J26-6&_user=42421&_coverDate=01%2F07%2F2009&_rdoc=9&_fmt=high&_orig=browse&_srch=doc-info(%23toc%236932%232009%23997439998%23746069%23FLA%23display%23Volume)&_cdi=6932&_sort=d&_docanchor=&_ct=16&_acct=C000002818&_version=))
 6. E. R. Dumont, I. R. Grosse, G. J. Slater
Requirements for comparing the performance of finite element models of biological structures ([http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WMD-4T9CD1X-1&_user=42421&_coverDate=01%2F07%2F2009&_rdoc=11&_fmt=high&_orig=browse&_srch=doc-info\(%23toc%236932%232009%23997439998%23746069%23FLA%23display%23Volume\)&_cdi=6932&_sort=d&_docanchor=&_ct=16&_acct=C000002818&_version=](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WMD-4T9CD1X-1&_user=42421&_coverDate=01%2F07%2F2009&_rdoc=11&_fmt=high&_orig=browse&_srch=doc-info(%23toc%236932%232009%23997439998%23746069%23FLA%23display%23Volume)&_cdi=6932&_sort=d&_docanchor=&_ct=16&_acct=C000002818&_version=))

Nature

1. Georg B. Keller & Richard H. R. Hahnloser
Neural processing of auditory feedback during vocal practice in a songbird (<http://www.nature.com/nature/journal/v457/n7226/abs/nature07467.html>)
2. Hani S. Zaher & Rachel Green
Quality control by the ribosome following peptide bond formation (<http://www.nature.com/nature/journal/v457/n7226/abs/nature07582.html>)
3. Jessica R. Colantonio, Julien Vermot, David Wu, Adam D. Langenbacher, Scott Fraser, Jau-Nian Chen & Kent L. Hill
The dynein regulatory complex is required for ciliary motility and otolith biogenesis in the inner ear (<http://www.nature.com/nature/journal/v457/n7226/abs/nature07520.html>)
4. Allen H. J. Yang, Sean D. Moore, Bradley S. Schmidt, Matthew Klug, Michal Lipson & David Erickson
Optical manipulation of nanoparticles and biomolecules in sub-wavelength slot waveguides (<http://www.nature.com/nature/journal/v457/n7225/abs/nature07593.html>)
5. Leonardo B. Koerich, Xiaoyun Wang, Andrew G. Clark & Antonio Bernardo Carvalho
Low conservation of gene content in the *Drosophila* Y chromosome (<http://www.nature.com/nature/journal/v456/n7224/abs/nature07463.html>)
6. Pankaj Dhonukshe, Hirokazu Tanaka, Tatsuo Goh, Kazuo Ebine, Ari Pekka Mähönen, Kalika Prasad, Ikram Bilou, Niko Geldner, Jian Xu, Tomohiro Uemura, Joanne Chory, Takashi Ueda, Akihiko Nakano, Ben Scheres & Jiraroni Friml
Generation of cell polarity in plants links endocytosis, auxin distribution and cell fate decisions (<http://www.nature.com/nature/journal/v456/n7224/abs/nature07409.html>)

Nature Cell Biology

1. Lin Ji, James Lim and Gaudenz Danuser
Fluctuations of intracellular forces during cell protrusion (<http://www.nature.com/ncb/journal/v10/n12/full/ncb1797.html>)
1. Samuel F. Bakhom, Sarah L. Thompson, Amity L. Manning and Duane A. Compton
Genome stability is ensured by temporal control of kinetochore-microtubule dynamics (<http://www.nature.com/ncb/journal/v11/n1/full/ncb1809.html>)

Nature Neuroscience

1. Todd W. Troyer & Christopher M. Glaze
Pulling an all-nighter (<http://www.nature.com/neuro/journal/v12/n1/full/nn0109-12.html>)

Nature Physics

1. Mark Buchanan (fun read)
Know the unknown (<http://www.nature.com/nphys/journal/v5/n1/full/nphys1164.html>)
2. Keith A. Nugent
X-ray imaging: Caught in a spin (<http://www.nature.com/nphys/journal/v5/n1/full/nphys1171.html>)
3. Sung-Yoon Chung, Young-Min Kim, Jin-Gyu Kim & Youn-Joong Kim
Multiphase transformation and Ostwald's rule of stages during crystallization of a metal phosphate (<http://www.nature.com/nphys/journal/v5/n1/full/nphys1148.html>)
4. Marián Boguñá, Dmitri Krioukov & K. C. Claffy
Navigability of complex networks (<http://www.nature.com/nphys/journal/v5/n1/full/nphys1130.html>)

Neuron

- (<http://link.aps.org/doi/10.1103/PhysRevLett.101.268104>)
4. Pawel Romanczuk, Iain D. Couzin, and Lutz Schimansky-Geier
Collective Motion due to Individual Escape and Pursuit Response
(<http://link.aps.org/doi/10.1103/PhysRevLett.102.010602>)
 5. Yoshinori Nishino, Yukio Takahashi, Naoko Imamoto, Tetsuya Ishikawa, and Kazuhiro Maeshima
Three-Dimensional Visualization of a Human Chromosome Using Coherent X-Ray Diffraction
(<http://link.aps.org/doi/10.1103/PhysRevLett.102.018101>)
 6. J.-B. Fournier, N. Khalifat, N. Puff, and M. I. Angelova
Chemically Triggered Ejection of Membrane Tubules Controlled by Intermonolayer Friction
(<http://link.aps.org/doi/10.1103/PhysRevLett.102.018102>)

PLoS Biology

1. Bryant GO, Prabhu V, Floer M, Wang X, Spagna D, Schreiber D, Ptashne M
Activator control of nucleosome occupancy in activation and repression of transcription
(<http://biology.plosjournals.org/perlserv/?request=get-document&doi=10.1371/journal.pbio.0060317>)

PLoS Computational Biology

1. Feng Liu, Xiao-Jing Wang
A Common Cortical Circuit Mechanism for Perceptual Categorical Discrimination and Veridical Judgment (<http://www.ploscompbiol.org/article/info%3Adoi%2F10.1371%2Fjournal.pcbi.1000253>)
2. Wako Yoshida, Ray J. Dolan, Karl J. Friston
Game Theory of Mind
(<http://www.ploscompbiol.org/article/info%3Adoi%2F10.1371%2Fjournal.pcbi.1000254>)

PNAS

1. Marcus Roper, Rachel E. Pepper, Michael P. Brenner, and Anne Pringle
Explosively launched spores of ascomycete fungi have drag-minimizing shapes
(<http://www.pnas.org/content/105/52/20583>)
2. Michael T. Beste and Daniel A. Hammer
Selectin catch-slip kinetics encode shear threshold adhesive behavior of rolling leukocytes
(<http://www.pnas.org/content/105/52/20716>)
3. Dongguang Wei, Snezana Levic, Liping Nie, Wei-qiang Gao, Christine Petit, Edward G. Jones, and Ebenezer N. Yamoah
Cells of adult brain germinal zone have properties akin to hair cells and can be used to replace inner ear sensory cells after damage (<http://www.pnas.org/content/105/52/21000>)
4. Hitesh B. Mistry, David E. MacCallum, Robert C. Jackson, Mark A. J. Chaplain, and Fordyce A. Davidson
Modeling the temporal evolution of the spindle assembly checkpoint and role of Aurora B kinase
(<http://www.pnas.org/content/105/51/20215>)
5. Stefan Klumpp and Terence Hwa
Growth-rate-dependent partitioning of RNA polymerases in bacteria
(<http://www.pnas.org/content/105/51/20245>)
6. Juan E. Keymer, Peter Galajda, Guillaume Lambert, David Liao, and Robert H. Austin
Computation of mutual fitness by competing bacteria (<http://www.pnas.org/content/105/51/20269>)
7. Cox CJ, Foster PG, Hirt RP, Harris SR, Embley TM
The archaeobacterial origin of eukaryotes (<http://www.pnas.org/content/105/51/20356>)
8. Aryeh Warmflash and Aaron R. Dinner
Signatures of combinatorial regulation in intrinsic biological noise
(<http://www.pnas.org/content/105/45/17262.short>)
9. Hao Yuan Kueha, William M. Briehera and Timothy J. Mitchison
Dynamic stabilization of actin filaments (<http://www.pnas.org/content/105/43/16531.abstract>)
10. J. I. Pueyo, R. Lanfear and J. P. Couso
Ancestral Notch-mediated segmentation revealed in the cockroach *Periplaneta americana*
(<http://www.pnas.org/content/105/43/16614>)
11. Martinez AW, Phillips ST, Whitesides GM
Three-dimensional microfluidic devices fabricated in layered paper and tape
(<http://www.pnas.org/content/105/50/19606>)
12. Ueno H, Yasunaga T, Shingyoji C, Hirose K
Dynein pulls microtubules without rotating its stalk (<http://www.pnas.org/content/105/50/19702>)
13. 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>)
14. Altimus CM, Goler 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>)
15. Various
The December 9, 2008 issue has a special series of articles on movement ecology.
(<http://www.pnas.org/content/105/49/19050>)
16. 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>)
17. Schultz D, Walczak AM, Onuchic JN, Wolynes PG
Extinction and resurrection in gene networks (<http://www.pnas.org/content/105/49/19165>)
18. Lipatov M, Li S, Feldman MW
Economics, cultural transmission, and the dynamics of the sex ratio at birth in China
(<http://www.pnas.org/content/105/49/19171>)
19. 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>)