

**Group Seminar Biological Physics**  
**7 April 2008**  
**Journal Scan**

**ArXiv**

1) Ramin Golestanian, Armand Ajdari  
Three-Sphere Low Reynolds Number Swimmer Revisited  
arXiv:0711.3700.  
URL: <http://arxiv.org/abs/arXiv:0711.3700>

**Biophysical Journal**

2) Mran H. Quraishi and Robert M. Raphael  
Generation of the Endocochlear Potential: A Biophysical Model  
Biophys. J. 2008 94: L64-L66

3) Mark Bathe, Claus Heussinger, Mireille M. A. E. Claessens, Andreas R. Bausch, and Erwin Frey  
Cytoskeletal Bundle Mechanics  
Biophys. J. 2008 94: 2955-2964

4) Serge Yefimov, Erik van der Giessen, Patrick R. Onck, and Siewert J. Marrink  
Mechanosensitive Membrane Channels in Action  
Biophys. J. 2008 94: 2994-3002

5) Poul M. Bendix, Gijsje 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. 2008 94: 3126-3136

6) 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. 2008 94: 3352-3360

7) Maryline Beurg, Jong-Hoon Nam, Andrew Crawford, and Robert Fettiplace  
The Actions of Calcium on Hair Bundle Mechanics in Mammalian Cochlear Hair Cells  
Biophys. J. 2008 94: 2639-2653

8) Delphine Icard-Arcizet, Olivier Cardoso, Alain Richert, and Sylvie Hénon  
Cell Stiffening in Response to External Stress is Correlated to Actin Recruitment  
Biophys. J. 2008 94: 2906-2913

**BMC Bioinformatics**

9) TABASCO: A single molecule, base-pair resolved gene expression simulator  
Sriram Kosuri, Jason R Kelly and Drew Endy  
BMC Bioinformatics 8:480 (2007)  
doi:10.1186/1471-2105-8-480

## **Cell**

10) Applied Force Reveals Mechanistic and Energetic Details of Transcription Termination  
M. Larson, W. Greenleaf, R. Landick, S. Block  
Cell, Volume 132, Issue 6, Pages 971-982  
PMID: 18358810

11) Brouhard GJ, Stear JH, Noetzel TL, Al-Bassam J, Kinoshita K, Harrison SC, Howard J, Hyman AA.  
XMAP215 is a processive microtubule polymerase.  
Cell. 2008 Jan 11;132(1):79-88.  
PMID: 18191222

## **Development**

12) Oscillatory lunatic fringe activity is crucial for segmentation of the anterior but not posterior skeleton  
Emily T. Shifley, Kellie M. VanHorn, Ariadna Perez-Balaguer, John D. Franklin, Michael Weinstein and Susan E. Cole  
Development 135, 899-908 (2008)  
doi:10.1242/dev.006742

13) Precision of the Dpp gradient  
Tobias Bollenbach, Periklis Pantazis, Anna Kicheva, Christian Bkel, Marcos Gonzalez-Gaitn, and Frank Jülicher  
Development 135: 1137-1146 (2008)  
doi: 10.1242/dev.012062

## **Developmental Cell**

14) Intron Delays and Transcriptional Timing during Development  
Ian A. Swinburne and Pamela A. Silver  
Developmental Cell 14, 324-330 (2008)  
doi:10.1016/j.devcel.2008.02.002

## **Developmental Dynamics**

15) Dynamics of zebrafish somitogenesis  
Christian Schroeter, Leah Herrgen, Albert Cardona, Gary J. Brouhard, Benjamin Feldman, Andrew C. Oates  
Developmental Dynamics 237, 545-553 (2008)  
DOI: 10.1002/dvdy.21458

## **EPL Journal**

16) Dynamic Stability of Spindles Controlled by Molecular Motor Kinetics  
O. Campas, J. Casademunt and I. Pagonabarraga  
EPL v. 81, 48003 (2008)

17) Noise-induced synchronisation in heterogeneous nets of neural elements  
E. Glatt, M. Gassel and F. Kaiser  
EPL v. 81 40004 (2008)

18) Protein adsorption kinetics in different surface potentials  
A. Quinn, H. Mantz, K. Jacobs, M. Bellion and L. Santen  
EPL v 81(March 2008) 56003

19) Dynamics of particles with "key-lock" interactions  
N. A. Licata and A. V. Tkachenko  
EPL 81 (February 2008) 48009

### **HFSP Journal**

20) Compositionality, stochasticity, and cooperativity in dynamic models of gene regulation  
Ralf Blossey, Luca Cardelli and Andrew Phillips  
HFSP Journal 2, 17-28 (2008)  
doi:10.2976/1.2804749

21) Quantitative differences in tissue surface tension influence zebrafish germ layer positioning  
Eva-Maria Schoetz, Rebecca D. Burdine, Frank Julicher, Malcolm S. Steinberg, Carl-Philipp Heisenberg and Ramsey A. Foty  
HFSP Journal 2, 42-56 (2008)  
doi:10.2976/1.2834817

### **Journal of Chemical Physics**

22) A breathing wormlike chain model on DNA denaturation and bubble: Effects of stacking interactions  
Kim, Jae-Yeol; Jeon, Jae-Hyung; Sung, Wokyung  
Journal of Chemical Physics 128, 055101 (2008)  
doi:10.1063/1.2827471

### **Molecular Systems Biology**

23) Deriving structure from evolution: metazoan segmentation  
Paul Francois, Vincent Hakim, and Eric D. Siggia  
Molecular Systems Biology 3:154 (2007)  
doi:10.1038/msb4100192

### **Nature**

24) Following translation by single ribosomes one codon at a time  
Jin-Der Wen, Laura Lancaster, Courtney Hodges, Ana-Carolina Zeri, Shige H. Yoshimura, Harry F. Noller, Carlos Bustamante & Ignacio Tinoco  
Nature 452, 598-603

25) A nuclear receptor-like pathway regulating multidrug resistance in fungi  
Thakur JK, Arthanari H, Yang F, Pan SJ, Fan X, Breger J, Frueh DP, Gulshan K, Li DK, Mylonakis E, Struhl K, Moye-Rowley WS, Cormack BP, Wagner G, Näär AM.  
Nature 452, 604-609

26) A neural representation of depth from motion parallax in macaque visual cortex  
Jacob W. Nadler, Dora E. Angelaki & Gregory C. DeAngelis,  
Nature 452, 642-645

- 27) Variations in DNA elucidate molecular networks that cause disease  
Yanqing Chen, Jun Zhu, Pek Yee Lum, Xia Yang, Shirly Pinto, Douglas J. MacNeil, Chunsheng Zhang, John Lamb, Stephen Edwards, Solveig K. Sieberts, Amy Leonardson, Lawrence W. Castellini, Susanna Wang, Marie-France Champy, Bin Zhang, Valur Emilsson, Sudheer Doss, Anatole Ghazalpour, Steve Horvath, Thomas A. Drake, Aldons J. Lulis & Eric E. Schadt  
Nature 452, 429-435
- 28) Pleiotropic scaling of gene effects and the 'cost of complexity',  
Wagner GP, Kenney-Hunt JP, Pavlicev M, Peck JR, Waxman D, Cheverud JM.  
Nature 452, 470-472
- 29) Winners don't punish  
Anna Dreber, David G. Rand, Drew Fudenberg & Martin A. Nowak  
Nature 452, 348-351
- 30) Identifying natural images from human brain activity  
Kendrick N. Kay, Thomas Naselaris, Ryan J. Prenger & Jack L. Gallant  
Nature 452, 352-355
- 31) Preserving cell shape under environmental stress  
Boaz Cook, Robert W. Hardy, William B. McConnaughey & Charles S. Zuker  
Nature 452, 361-364
- 32) Hierarchical self-assembly of DNA into symmetric supramolecular polyhedra  
Yu He, Tao Ye, Min Su, Chuan Zhang, Alexander E. Ribbe, Wen Jiang & Chengde Mao  
Nature 452, 198-201
- 33) A skin microRNA promotes differentiation by repressing 'stemness'  
Rui Yi, Matthew N. Poy, Markus Stoffel & Elaine Fuchs  
Nature 452, 225-229
- 34) UNC93B1 delivers nucleotide-sensing toll-like receptors to endolysosomes,  
You-Me Kim, Melanie M. Brinkmann, Marie-Eve Paquet & Hidde L. Ploegh  
Nature 452, 234-238
- 35) Cyclical DNA methylation of a transcriptionally active promoter,  
Métivier R, Gallais R, Tiffoche C, Le Péron C, Jurkowska RZ, Carmouche RP, Ibberson D, Barath P, Demay F, Reid G, Benes V, Jeltsch A, Gannon F, Salbert G.  
Nature 452, 45-50
- 36) The MC-Fold and MC-Sym pipeline infers RNA structure from sequence data  
Marc Parisien & François Major  
Nature 452, 51-55
- 37) Scaling laws of marine predator search behaviour  
David W. Sims, Emily J. Southall, Nicolas E. Humphries, Graeme C. Hays, Corey J. A. Bradshaw, Jonathan W. Pitchford, Alex James, Mohammed Z. Ahmed, Andrew S. Brierley, Mark A. Hindell, David Morritt, Michael K. Musyl, David Righton, Emily L. C. Shepard, Victoria J. Wearmouth, Rory P. Wilson, Matthew J. Witt & Julian D. Metcalfe,  
Nature 451, 1098-1102
- 38) A fundamental avian wing-stroke provides a new perspective on the evolution of flight,  
Kenneth P. Dial, Brandon E. Jackson & Paolo Segre  
Nature 451, 985-989

39) Global trends in emerging infectious diseases

Kate E. Jones, Nikkita G. Patel, Marc A. Levy, Adam Storeygard, Deborah Balk, John L. Gittleman & Peter Daszak

Nature 451, 990-993

40) Chaos in a long-term experiment with a plankton community

Elisa Benincà, Jef Huisman, Reinhard Heerkloss, Klaus D. Jöhnk, Pedro Branco, Egbert H. Van Nes, Marten Scheffer & Stephen P. Ellner

Nature 451, 822-825

41) The X-ray crystal structure of RNA polymerase from Archaea,

Akira Hirata, Brianna J. Klein & Katsuhiko S. Murakami

Nature 451, 851-854

### **Nature Cell Biology**

42) A beta-catenin gradient links the clock and wavefront systems in mouse embryo segmentation

Aulehla A, Wiegraebe W, Baubet V, Wahl MB, Deng CX, Taketo M, Lewandoski M, Pourquie O

Nature Cell Biology 10, 186 - 193 (2008)

doi:10.1038/ncb1679

### **Phys Rev. Lett.**

43) Ernst A. van Nierop, Silas Alben, and Michael P. Brenner

How Bumps on Whale Flippers Delay Stall: An Aerodynamic Model

Phys. Rev. Lett. 100, 054502 (2008)

URL: <http://link.aps.org/abstract/PRL/v100/e054502>

44) Nicholas Guttenberg and Nigel Goldenfeld

Cascade of Complexity in Evolving Predator-Prey Dynamics

Phys. Rev. Lett. 100, 058102 (2008)

URL: <http://link.aps.org/abstract/PRL/v100/e058102>

45) Jens Christian Claussen and Arne Traulsen

Cyclic Dominance and Biodiversity in Well-Mixed Populations

Phys. Rev. Lett. 100, 058104 (2008)

URL: <http://link.aps.org/abstract/PRL/v100/e058104>

46) Michael Assaf and Baruch Meerson

Noise Enhanced Persistence in a Biochemical Regulatory Network with Feedback Control

Phys. Rev. Lett. 100, 058105 (2008)

URL: <http://link.aps.org/abstract/PRL/v100/e058105>

47) Joanna I. Sułkowska,<sup>1</sup> Piotr Sułkowski P. Szymczak, and Marek Cieplak

Tightening of Knots in Proteins

Phys. Rev. Lett. 100, 058106 (2008)

URL: <http://link.aps.org/abstract/PRL/v100/e058106>

48) Karin John, Philippe Peyla, Klaus Kassner, Jacques Prost, and Chaouqi Misbah

Nonlinear Study of Symmetry Breaking in Actin Gels: Implications for Cellular Motility

Phys. Rev. Lett. 100, 068101 (2008)

URL: <http://link.aps.org/abstract/PRL/v100/e068101>

- 49) Bian Qian, Thomas R. Powers, and Kenneth S. Breuer  
Shape Transition and Propulsive Force of an Elastic Rod Rotating in a Viscous Fluid  
Phys. Rev. Lett. 100, 078101 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e078101>
- 50) Flavio Seno, Antonio Trovato, Jayanth R. Banavar, and Amos Maritan  
Maximum Entropy Approach for Deducing Amino Acid Interactions in Proteins  
Phys. Rev. Lett. 100, 078102 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e078102>
- 51) Stefan Semrau, Timon Idema, Laurent Holtzer, Thomas Schmidt, and Cornelis Storm  
Accurate Determination of Elastic Parameters for Multicomponent Membranes  
Phys. Rev. Lett. 100, 088101 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e088101>
- 52) Ravindra Venkatramani and Ravi Radhakrishnan  
Computational Study of the Force Dependence of Phosphoryl Transfer during DNA Synthesis by a High Fidelity Polymerase  
Phys. Rev. Lett. 100, 088102 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e088102>
- 53) Takuji Ishikawa and T. J. Pedley  
Coherent Structures in Monolayers of Swimming Particles  
Phys. Rev. Lett. 100, 088103 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e088103>
- 54) B. Gu, F. S. Zhang, Z. P. Wang, and H. Y. Zhou  
Solvent-Induced DNA Conformational Transition  
Phys. Rev. Lett. 100, 088104 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e088104>
- 55) Hendrik Dietz and Matthias Rief  
Elastic Bond Network Model for Protein Unfolding Mechanics  
Phys. Rev. Lett. 100, 098101 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e098101>
- 56) Roman Shusterman, Tatyana Gavrinyov, and Oleg Krichevsky  
Internal Dynamics of Superhelical DNA  
Phys. Rev. Lett. 100, 098102 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e098102>
- 57) Eric Shea-Brown, Krešimir Josić, Jaime de la Rocha, and Brent Doiron  
Correlation and Synchrony Transfer in Integrate-and-Fire Neurons: Basic Properties and Consequences for Coding  
Phys. Rev. Lett. 100, 108102 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e108102>
- 58) Rolf Müller Hongwang Lu and John R. Buck  
Sound-Diffracting Flap in the Ear of a Bat Generates Spatial Information  
Phys. Rev. Lett. 100, 108701 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e108701>

- 59) Jesper Lykke Jacobsen  
Unbiased Sampling of Globular Lattice Proteins in Three Dimensions  
Phys. Rev. Lett. 100, 118102 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e118102>
- 60) Hideaki Yasuda, Tsuyoshi Miyaoka, Jun Horiguchi, Akira Yasuda, Peter Hänggi, and Yoshiharu Yamamoto  
Novel Class of Neural Stochastic Resonance and Error-Free Information Transfer  
Phys. Rev. Lett. 100, 118103 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e118103>
- 61) Clifford P. Brangwynne, Gijssje H. Koenderink, Frederick C. MacKintosh, and David A. Weitz  
Nonequilibrium Microtubule Fluctuations in a Model Cytoskeleton  
Phys. Rev. Lett. 100, 118104 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e118104>
- 62) Marco Rusconi, Alexey Zaikin, Norbert Marwan, and Jürgen Kurths  
Effect of Stochastic Resonance on Bone Loss in Osteopenic Conditions  
Phys. Rev. Lett. 100, 128101 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e128101>
- 63) B. I. Henry and T. A. M. Langlands S. L. Wearne  
Fractional Cable Models for Spiny Neuronal Dendrites  
Phys. Rev. Lett. 100, 128103 (2008)
- 64) Tetsu Saigusa Atsushi Tero and Toshiyuki Nakagaki Yoshiki Kuramoto  
Amoebae Anticipate Periodic Events  
Phys. Rev. Lett. 100, 018101 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e018101>
- 65) Ramin Golestanian and Armand Ajdari  
Mechanical Response of a Small Swimmer Driven by Conformational Transitions  
Phys. Rev. Lett. 100, 038101 (2008)  
URL: <http://link.aps.org/abstract/PRL/v100/e038101>

## **PLoS Biology**

- 66) Aizen MA, Morales CL, Morales JM.  
Invasive mutualists erode native pollination webs.  
PLoS Biol. 2008 Feb;6(2):e31.  
PMID: 18271628
- 67) Tylianakis JM.  
Understanding the web of life: the birds, the bees, and sex with aliens.  
PLoS Biol. 2008 Feb;6(2):e47  
PMID: 18303951
- 68) Hanifin CT, Brodie ED, Brodie ED.  
Phenotypic mismatches reveal escape from arms-race coevolution.  
PLoS Biol. 2008 Mar 11;6(3):e60  
PMID: 18336073

69) Phillimore AB, Price TD.

Density-dependent cladogenesis in birds.

PLoS Biol. 2008 Mar 25;6(3):e71.

PMID: 18366256

70) Shivaswamy S, Bhinge A, Zhao Y, Jones S, Hirst M, Iyer VR.

Dynamic remodeling of individual nucleosomes across a eukaryotic genome in response to transcriptional perturbation

PLoS Biol. 2008 Mar 18;6(3):e65.

PMID: 18351804

71) Fernández MP, Berni J, Ceriani MF.

Circadian remodeling of neuronal circuits involved in rhythmic behavior.

PLoS Biol. 2008 Mar 25;6(3):e69.

PMID: 18366255

72) Kuiper JW, Pluk H, Oerlemans F, van Leeuwen FN, de Lange F, Fransen J, Wieringa B.

Creatine kinase-mediated ATP supply fuels actin-based events in phagocytosis.

PLoS Biol. 2008 Mar 11;6(3):e51

PMID: 18336068

73) Xiao-yong Li, Stewart MacArthur, Richard Bourgon, David Nix, Daniel A Pollard, Venky N Iyer, Aaron Hechmer, Lisa Simirenko, Mark Stapleton, Cris L. Luengo Hendriks, Hou Cheng Chu, Nobuo Ogawa, William Inwood, Victor Sementchenko, Amy Beaton, Richard Weiszmann, Susan E Celniker, David W Knowles, Tom Gingeras, Terence P Speed, Michael B Eisen, and Mark D Biggin  
Transcription Factors Bind Thousands of Active and Inactive Regions in the Drosophila Blastoderm

PLoS Biol. 2008 February; 6(2): e27.

PMID: 18271625

## **PNAS**

74) Álvaro Sánchez and Jané Kondev

Transcriptional control of noise in gene expression

PNAS 105: 5081-5086

75) Melanie J. I. Müller, Stefan Klumpp, and Reinhard Lipowsky

Tug-of-war as a cooperative mechanism for bidirectional cargo transport by molecular motors

PNAS 105: 4609-4614

76) M. Yusuf Ali, Hailong Lu, Carol S. Bookwalter, David M. Warshaw, and Kathleen M. Trybus

Myosin V and Kinesin act as tethers to enhance each others' processivity

PNAS 105: 4691-4696

77) Anthony Herrel, Katleen Huyghe, Bieke Vanhooydonck, Thierry Backeljau, Karin Breugelmans, Irena Grbac, Raoul Van Damme, and Duncan J. Irschick

Rapid large-scale evolutionary divergence in morphology and performance associated with exploitation of a different dietary resource

PNAS 105: 4792-4795

78) Choongrak Kim, Mookyung Cheon, Minho Kang, and Iksoo Chang

A simple and exact Laplacian clustering of complex networking phenomena: Application to gene expression profiles

PNAS 105: 4083-4087



79) Raymond E. Goldstein, Idan Tuval, and Jan-Willem van de Meent  
From the Cover: Microfluidics of cytoplasmic streaming and its implications for intracellular transport  
PNAS 105: 3663-3667

80) Sophie Jarriault, Yannick Schwab, and Iva Greenwald  
A *Caenorhabditis elegans* model for epithelial–neuronal transdifferentiation  
PNAS 105: 3790-3795

81) Reverse wave propagation in the cochlea  
He, WX; Fridberger, A; Porsov, E; Grosh, K; Ren, TY  
PNAS, 105 (7), 2729-2733, Feb. 19, 2008

82) JNK MAP kinase activation is required for MTOC and granule polarization in NKG2D-mediated NK cell cytotoxicity  
Li, CL; Ge, BX; Nicotra, M; Stern, JNH; Kopcow, HD; Chen, X; Stromingert, JL  
PNAS 105 (8) 3017-3022, FEB 26 2008

83) The endocochlear potential depends on two K<sup>+</sup> diffusion potentials and an electrical barrier in the stria vascularis of the inner ear  
Nin, F; Hibino, H; Doi, K; Suzuki, T; Hisa, Y; Kurachi, Y  
PNAS 105 (5) 1751-1756, FEB 5 2008

84) Emergent decision-making in biological signal transduction networks  
Helikar, T; Konvalina, J; Heidel, J; Rogers, JA  
PNAS 105 (6) 1913-1918, FEB 12 2008

85) Spatial mapping of the neurite and soma proteomes reveals a functional Cdc42/Rac regulatory network  
Pertz, OC; Wang, Y; Yang, F; Wang, W; Gay, LJ; Gristenko, MA; Clauss, TR; Anderson, DJ; Liu, T; Auberry, KJ; Camp, DG; Smith, RD; Klemke, RL  
PNAS 105 (6) 1931-1936, FEB 12 2008

86) Size, foraging, and food web structure  
Petchey, OL; Beckerman, AP; Riede, JO; Warren, PH  
PNAS 105 (11) 4191-4196, MAR 18 2008

## Science

87) \* Reports  
The Premetazoan Ancestry of Cadherins  
M. Abedin, and N. King (15 February 2008)  
Science 319 (5865), 946-948. [DOI: 10.1126/science.1151084]

88) \* Reports  
Axle-Less F1-ATPase Rotates in the Correct Direction  
S. Furuike, M. D. Hossain, Y. Maki, K. Adachi, T. Suzuki, A. Kohori, H. Itoh, M. Yoshida, and K. Kinosita, Jr. (15 February 2008)  
Science 319 (5865), 955-958. [DOI: 10.1126/science.1151343]

89) \* Brevia  
Juvenile Hormone Regulates Butterfly Larval Pattern Switches  
R. Futahashi, and H. Fujiwara (22 February 2008)  
Science 319 (5866), 1061. [DOI: 10.1126/science.1149786]

90) \* Reports

Differential Regulation of Dynein and Kinesin Motor Proteins by Tau

R. Dixit, J. L. Ross, Y. E. Goldman, and E. L. F. Holzbaur (22 February 2008)

Science 319 (5866), 1086-1089. [DOI: 10.1126/science.1152993]

91) \* Reports

Rapid Neural Coding in the Retina with Relative Spike Latencies

T. Gollisch, and M. Meister (22 February 2008)

Science 319 (5866), 1108-1111. [DOI: 10.1126/science.1149639]

92) \* Reports

Local Positive Feedback Regulation Determines Cell Shape in Root Hair Cells

S. Takeda, C. Gapper, H. Kaya, E. Bell, K. Kuchitsu, and L. Dolan (29 February 2008)

Science 319 (5867), 1241-1244. [DOI: 10.1126/science.1152505]

93) \* Reports

Membrane Proteins of the Endoplasmic Reticulum Induce High-Curvature Tubules

J. Hu, Y. Shibata, C. Voss, T. Shemesh, Z. Li, M. Coughlin, M. M. Kozlov, T. A. Rapoport, and W. A. Prinz (29 February 2008)

Science 319 (5867), 1247-1250. [DOI: 10.1126/science.1153634]

94) \* Reports

Leading-Edge Vortex Improves Lift in Slow-Flying Bats

F. T. Muijres, L. C. Johansson, R. Barfield, M. Wolf, G. R. Spedding, and A. Hedenström (29 February 2008)

Science 319 (5867), 1250-1253. [DOI: 10.1126/science.1153019]

95) \* Reports

Stimuli-Responsive Polymer Nanocomposites Inspired by the Sea Cucumber Dermis

J. R. Capadona, K. Shanmuganathan, D. J. Tyler, S. J. Rowan, and C. Weder (7 March 2008)

Science 319 (5868), 1370-1374. [DOI: 10.1126/science.1153307]

96) \* Reports

High-Resolution Mapping of Crossovers Reveals Extensive Variation in Fine-Scale Recombination Patterns Among Humans

G. Coop, X. Wen, C. Ober, J. K. Pritchard, and M. Przeworski (7 March 2008)

Science 319 (5868), 1395-1398. [DOI: 10.1126/science.1151851]

97) \* Reports

Direct Visualization of Horizontal Gene Transfer

A. Babic, A. B. Lindner, M. Vulic, E. J. Stewart, and M. Radman (14 March 2008)

Science 319 (5869), 1533-1536. [DOI: 10.1126/science.1153498]

98) \* Reports

Drosophila Egg-Laying Site Selection as a System to Study Simple Decision-Making Processes

C.-h. Yang, P. Belawat, E. Hafen, L. Y. Jan, and Y.-N. Jan (21 March 2008)

Science 319 (5870), 1679-1683. [DOI: 10.1126/science.1151842]