

Letters

Research

- Human embryonic stem cells have a unique epigenetic signature** 1075^{OA}
 Marina Bibikova, Eugene Chudin, Bonnie Wu, Lixin Zhou,
 Eliza Wickham Garcia, Ying Liu, Soojung Shin, Todd W. Plaia,
 Jonathan M. Auerbach, Dan E. Arking, Rodolfo Gonzalez,
 Jeremy Crook, Bruce Davidson, Thomas C. Schulz, Allan Robins,
 Aparna Khanna, Peter Sartipy, Johan Hyllner, Padmavathy Vanguri,
 Smita Savant-Bhonsale, Alan K. Smith, Aravinda Chakravarti,
 Anirban Maitra, Mahendra Rao, David L. Barker, Jeanne F. Loring,
 and Jian-Bing Fan
- An ~140-kb deletion associated with feline spinal muscular atrophy
 implies an essential *LIX1* function for motor neuron survival** 1084
 John C. Fyfe, Marilyn Menotti-Raymond, Victor A. David,
 Lars Brichta, Alejandro A. Schäffer, Richa Agarwala,
 William J. Murphy, William J. Wedemeyer, Brittany L. Gregory,
 Bethany G. Buzzell, Meghan C. Drummond, Brunhilde Wirth,
 and Stephen J. O'Brien
- Identification of potential regulatory motifs in odorant receptor
 genes by analysis of promoter sequences** 1091
 Jussara S. Michaloski, Pedro A.F. Galante, and Bettina Malnic
- Phylogenetic analyses of cyanobacterial genomes: Quantification
 of horizontal gene transfer events** 1099
 Olga Zhaxybayeva, J. Peter Gogarten, Robert L. Charlebois,
 W. Ford Doolittle, and R. Thane Papke
- Hemizygous subtelomeres of an African trypanosome chromosome
 may account for over 75% of chromosome length** 1109
 Sergio Callejas, Vanessa Leech, Christopher Reitter,
 and Sara Melville
- Common inheritance of chromosome Ia associated with clonal
 expansion of *Toxoplasma gondii*** 1119
 Asis Khan, Ulrike Böhme, Krystyna A. Kelly, Ellen Adlem,
 Karen Brooks, Mark Simmonds, Karen Mungall, Michael A. Quail,
 Claire Arrowsmith, Tracey Chillingworth, Carol Churcher,
 David Harris, Matthew Collins, Nigel Fosker, Audrey Fraser,
 Zahra Hance, Kay Jagels, Sharon Moule, Lee Murphy, Susan O'Neil,
 Marie-Adele Rajandream, David Saunders, Kathy Seeger,
 Sally Whitehead, Thomas Mayr, Xuenan Xuan, Junichi Watanabe,
 Yutaka Suzuki, Hiroyuki Wakaguri, Sumio Sugano,
 Chihiro Sugimoto, Ian Paulsen, Aaron J. Mackey, David S. Roos,
 Neil Hall, Matthew Berriman, Bart Barrell, L. David Sibley,
 and James W. Ajioka

(continued)

Methods

Methods and Resources

Predicting essential genes in fungal genomes 1126^{OA}
Michael Seringhaus, Alberto Paccanaro, Anthony Borneman,
Michael Snyder, and Mark Gerstein

**High-resolution genomic profiling of chromosomal aberrations
using Infinium whole-genome genotyping** 1136^{OA}
Daniel A. Peiffer, Jennie M. Le, Frank J. Steemers, Weihua Chang,
Tony Jenniges, Francisco Garcia, Kirt Haden, Jiangzhen Li,
Chad A. Shaw, John Belmont, Sau Wai Cheung, Richard M. Shen,
David L. Barker, and Kevin L. Gunderson

**STAC: A method for testing the significance of DNA copy number
aberrations across multiple array-CGH experiments** 1149^{OA}
Sharon J. Diskin, Thomas Eck, Joel Greshock, Yael P. Mosse,
Tara Naylor, Christian J. Stoeckert Jr., Barbara L. Weber,
John M. Maris, and Gregory R. Grant

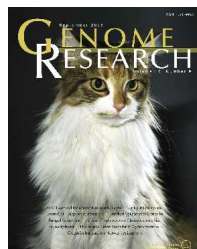
**SyMAP: A system for discovering and viewing syntenic regions
of FPC maps** 1159^{OA}
Carol Soderlund, William Nelson, Austin Shoemaker,
and Andrew Paterson

**Græmlin: General and robust alignment of multiple large
interaction networks** 1169^{OA}
Jason Flannick, Antal Novak, Balaji S. Srinivasan,
Harley H. McAdams, and Serafim Batzoglou

Resource

**An initial map of insertion and deletion (INDEL) variation
in the human genome** 1182
Ryan E. Mills, Christopher T. Luttig, Christine E. Larkins,
Adam Beauchamp, Circe Tsui, W. Stephen Pittard,
and Scott E. Devine

^{OA}Open Access paper.



Cover The cover photo shows a purebred Maine coon cat affected by spinal muscular atrophy. Genetic analysis of the feline disorder implicates a novel disease gene and illustrates the maturity of current resources for genomic analysis in this species. (Photo: William Lassaline. [For details, see Fyfe et al., pp. 1084–1090.])

The Editors regret that the DNA that appeared on the August 2006 issue cover was printed incorrectly as a left-handed rather than a right-handed helix.