

Bioinformatics Institute Publications – 2006

1.	<i>Alessandra Sacconi, Tiziana Schioppa, Chiara Porta, Subhra K. Biswas, Manuela Nebuloni, Luca Vago, Barbara Bottazzi, Mario P. Colombo, Alberto Mantovani, Antonio Sica.</i> p50 Nuclear Factor-KB Overexpression in Tumor-Associated Macrophages Inhibits M1 Inflammatory Responses and Antitumor Resistance. <i>Cancer Res</i> 2006; 66: (23). December 1, 2006
2.	<i>Yuchen Yang, Erwin Tantoso, Gek Huey Chua, Zhen Xuan Yeo, Felicia Soo Lee Ng, Sum Thai Wong, Cheuk Wang Chung and Kuo-Bin Li.</i> In silico analysis of p53 using the P53 Knowledgebase: mutations, polymorphisms, microRNAs and pathways. <i>In Silico Biology</i> 7
3.	<i>Yu Sun, Huai Li, Henry Yang, Mahendra S. Rao and Ming Zhan.</i> Mechanisms Controlling Embryonic Stem Cell Self-Renewal and Differentiation. <i>Eukaryotic Gene Expression</i> , Vol.16, No.3, PP.211-231
4.	<i>Stanley Ng Kwang Loong and Stantosh K. Mishra.</i> Unique folding of precursor microRNAs: Quantitative evidence and implications for de novo identification. <i>RNA</i> (2007), 13:1-18
5.	<i>Anita Suresh and Chandra Verma.</i> Modelling study of dimerization in mammalian defensins. <i>BMC Bioinformatics</i> 2006, 7(Suppl 5):S17
6.	<i>Philip M. Leonard, A. Marek Brzozowski, Andrey Lebedev, Caroline M. Marshall, Derek J. Smith, Chandra S. Verma, Nicholas J. Walton, Gideon Grogan.</i> The 1.8 Å resolution structure of hydroxycinnamoyl-coenzyme A hydratase-lyase (HCHL) from Pseudomonas fluorescens, an enzyme that catalyses the transformation of feruloyl-coenzyme A to vanillin. <i>Acta Crystallographica Section D</i> Dec 2006, Vol 62, Issue 12, Pg 1435-1571
7.	<i>Chun Meng Song, Boon Huat Yeo, Erwin Tantoso, Yuchen Yang, Yun Ping Lim, Kuo-Bin Li, Gunaretnam Rajagopal.</i> iHAP-integrated haplotype analysis pipeline for characterizing the haplotype structure of genes. <i>BMC Bioinformatics</i> 2006, 7:525
8.	<i>Andrew B. Goryachev, Alexandra V. Pokhilko.</i> Computational Model Explains High Activity and Rapid Cycling of Rho GTPases within Protein Complexes. <i>PLOS Computational Biology</i> , Vol.2, Issue.12
9.	<i>Bernett T.K. Lee, Chun Meng Song, Boon Huat Yeo, Cheuk Wang Chung, Ying Leong Chan, Teng Ting Lim, Yen Bing Chua, Marie C.S. Loh, Boon Keong Ang, Praveen Vijayakumar, Lailing Liew, Jiahao Lim, Yun Ping Lim, Chee Hong Wong, Danny Chuon, Gunaretnam Rajagopal and Jeffrey Hill.</i> Gastric Cancer (Biomarkers) Knowledgebase (GCBKB): A Curated and Fully Integrated Knowledgebase of Putative Biomarkers Related to Gastric Cancer. <i>Biomarker Insights</i> 2006: 2 135-141
10.	<i>K.-H. Chiam, Chee Meng Tan, Vipul Bhargava, Gunaretnam Rajagopal.</i> Hybrid simulations of stochastic reaction-diffusion processes for modeling intracellular signaling pathways. <i>Physical Review E</i> 74, 051910 (2006)
11.	<i>Shalin Seebah, Anita Suresh, Shaowei Zhuo, Yong How Choong, Hazel Chua, Danny Chuon, Roger Beuerman, Chandra Verma.</i> Defensins Knowledgebase: A manually curated database and information source focused on the defensins family of antimicrobial peptides. <i>Nucleic Acids Research Publication</i>
12.	<i>Ian W Boucher, Andrzej M Brzozowski, James A Brannigan, Claudia Schnick, Derek J Smith, Sus A Kyes, Anthony J Wilkinson.</i> The crystal structure of superoxide dismutase from Plasmodium falciparum. <i>BMC Structural Biology</i> 2006, 6-20
13.	<i>Jun Xu, Bhylahalli P. Srinivas, Shang Yew Tay, Alicia Mak, Xianwen Yu, Serene G. P. Lee, Henry Yang, Kunde R. Govindarajan, Bernard Leong, Guillaume Bourque, Sinnakarupan Mathavan, Sudipto Roy.</i> Genomewide Expression Profiling in the Zebrafish Embryo Identifies Target Genes Regulated by Hedgehog Signaling During Vertebrate Development. <i>Genetics</i> 174: 735-752

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14.	YP Lim, TT Lim, YL Chan, ACM Song, BH Yeo, B Vojtesek, D Coomber, G Rajagopal, D Lane. The p53 knowledgebase: an integrated information resource for p53 research. Oncogene 2006
15.	Peng Dong, Marie Loh, Adrian Mondry. Publication lag in biomedical journals varies due to the periodical's publishing model. Scientometrics, Vol.69, No.2, PP.271-286
16.	Erwin Tantoso, Yuchen Yang, Kuo-Bin Li. How well do HapMap SNPs capture the untyped SNPs? BMC Genomics
17.	Wee Guan Lim, Bee Jen tan, Yimin Zhu, Shufeng Zhou, Jeffrey S. Armstrong, Qiu Tian Li, Qihan Dong, Eli Chan, Derek Smith, Chandra Verma, Seng-Lai Tan, Wei Duan. The very C-terminus of PRK1/PKN is essential for its activation by RhoA and downstream signaling. Cellular Signalling
18.	Kuo Ping Chiu, Chee-Hong Wong, Qiongyu Chen, Pramila Ariyaratne, Hong Sain Ooi, Chia-Lin Wei, Wing-Kin Ken Sung, Yijun Ruan. PET-Tool: a software suite for comprehensive processing and managing of Paired-End diTag (PET) sequence data. BMC Bioinformatics 2006
19.	Sui Sun Yeong, Yimin Zhu, Derek Smith, Chandra Verma, Wee Guan Lim, Bee Jen Tan, Qiu Tian Li, Nam Sang Cheung, Minnie Cai, Yi-Zhun Zhu, Shu-Feng Zhou, Seng-Lai Tan, Wei Duan. The Last Ten Amino Acid Residues Beyond the Hydrophobic Motif are Critical for the Catalytic Competence and Function of Protein Kinase Ca. The Journal of Biological Chemistry
20.	Susanne Ng, Rongbin Han, Shi Chang, Jun Ni, Walter Hunziker, Andrew Goryachev, Sim Heng Ong and Harry Yu. Improved Hepatocyte Excretory Function by Immediate Presentation of Polarity Cues. Tissue Engineering
21.	Li Chen, Siu Kwan Sze and He Yang. Automated Intensity Descent Algorithm for Interpretation of Complex High-Resolution Mass Spectra. Analytical Chemistry, Vol.78, No.14, PP.5006-5018
22.	Adrian Mondry, Marie Loh, Kevin Ben Laurence and Nelson Low. DNA polymorphisms and renal disease: a critical appraisal of studies presented at the annual ERA/EDTA and ASN conferences in 2004 and 2005. NDT Advance Access
23.	Quek Choon Lau, Erna Raja, Manuel Salto-Tellez, Qiang Liu, Kosei Ito, Masafumi Inoue, Thomas Choudary Putti, Marie Loh, Tun Kiat Ko, Canhua Huang, Kapil N. Bhalla, Tao Zhu, Yoshiaki Ito and Saraswati Sukumar. RUNX3 Is Frequently Inactivated by Dual Mechanisms of Protein Mislocalization and Promoter Hypermethylation in Breast Cancer. Cancer Research 2006; 66: (13), PP.6512-6520
24.	Emilia Stec, Malgorzata Witkowska-Zimny, Monika M. Hryniewicz, Piotr Neumann, Anthony J. Wilkinson, Andrzej M. Brzozowski, Chandra S. Verma, Jolanta Zaim, Stanislaw Wysocki, Grzegorz D. Bujacz. Structural Basis of the Sulphate Starvation Response in E. coli: Crystal Structure and Mutational Analysis of the Cofactor-binding Domain of the Cbl Transcriptional Regulator. JMB 2006
25.	Xiaohui Liang, Quek Choon Lau, Manuel Salto-Tellez, Thomas Choudary Putti, Marie Loh, Saraswati Sukumar. Mutational Hotspot in Exon 20 of PIK3CA in Breast Cancer Among Singapore Chinese. Cancer Biology & Therapy, Vol.5, Issue 5, 2006
26.	M Ortiz-Lombardia & Chandra Verma. Proteins as data storage devices: insights from computer models. Journal of Physics
27.	Keng Boon Wee and Baltazar D. Aguda. Akt versus p53 in a network of oncogenes and tumor suppressor genes regulating cell survival and death. Biophysical Journal
28.	Yong Wee Wong, Jaime Chew, He Yang, Donald Tan and Roger Beuerman. Expression of insulin-like growth factor binding protein- 3 in pterygium tissue. British Journal of Optometry
29.	Su-Wen Chua, Praveen Vijayakumar, Peter M. Nissom, Chew-Yeam Yam, Victor V.T. Wong and He Yang. A novel normalization method for effective removal of systematic variation in microarray data. Nucleic Acids Research, 2006, Vol.34, No.5

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31.	<i>Bernard P. Schimmer, Martha Cordova, Henry Cheng, Andrew Tsao, Andrew B. Goryachev, Aaron D. Schimmer and Quaid Morris.</i> Global Profiles of Gene Expression Induced by ACTH in Y1 Mouse Adrenal Cells. <i>Endocrinology</i>
32.	<i>Ene-choo Tan, Marie Loh, Danny Chuon and Yun Ping Lim.</i> Singapore Human Mutation/ Polymorphism Database: A Country-Specific Database for Mutations and Polymorphisms in Inherited Disorders and Candidate Gene Association Studies. <i>Human Mutation</i> 27(3), 232-235, 2006
33.	<i>G. Dodson and C.S. Verma.</i> Protein flexibility: its role in structure and mechanism revealed by molecular simulations. <i>Cellular and Molecular Life Sciences</i>
34.	<i>Chia-Lin Wei, Qiang Wu, Vinsensius B. Vega, Kuo Ping Chiu, Patrick Ng, Tao Zhang, Atif Shahab, How Choong Yong, YuTao Fu, Zhiping Weng, JianJun Liu, Xiao Dong Zhao, Joon-Lin Chew, Yen Ling Lee, Vladimir A. Kuznetsov, Wing-Kin Sung, Lance D. Miller, Bing Lim, Edison T. Liu, Qiang Yu, Huck-Hui Ng and Yijun Ruan.</i> A Global Map of p53 Transcription-Factor Binding Sites in the Human Genome. <i>Cell</i> 124, 207-219, Elsevier Inc.
35.	<i>Aguda Baltazar.</i> Modeling The Cell Division Cycle. <i>Tutorials in Mathematical Biosciences III</i> (book chapter)