

Bioinformatics Institute Publications – 2009

1.	<i>Turgay Celik, Huseyin Kusetogullari.</i> Solar-Powered Automated Road Surveillance System for Speed Violation Detection. IEEE Transactions on Industrial Electronics, doi: 10.1109/TIE.2009.2038395
2.	<i>Shoba Ranganathan, Frank Eisenhaber, Joo Chuan Tong, Tin Wee Tan.</i> Extending Asia Pacific bioinformatics into new realms in the "-omics" era. BMC Genomics 2009, 10(Supp 3):S1, doi:10.1186/1471-2164-10-S3-S1
3.	<i>Oliviero Carugo, Frank Eisenhaber.</i> Data Mining Techniques for the Life Sciences. Book: Humana Press, 1 edition, ISBN : 978-1603272407
4.	<i>Birgit Eisenhaber, Frank Eisenhaber.</i> Prediction of Posttranslational Modification of Proteins from Their Amino Acid Sequence. Book Chapter: Data Mining Techniques for the Life Sciences, Section III: Databases, Pg 365-384, ISBN-10: 1603272402
5.	<i>Georg Schneider, Michael Wildpaner, Fernanda L. Sirota, Sebastian Maurer-Stroh, Birgit Eisenhaber, and Frank Eisenhaber.</i> Integrated Tools for Biomolecular Sequence-Based Function Prediction as Exemplified by the ANNOTATOR Software Environment. Book Chapter: Data Mining Techniques for the Life Sciences, Section III: Databases, Pg 257-268, ISBN-10: 1603272402
6.	<i>Hong Sain Ooi, Georg Schneider, Teng-Ting Lim, Ying-Leong Chan, Birgit Eisenhaber, Frank Eisenhaber.</i> Databases of Protein-Protein Interactions and Complexes. Book Chapter: Data Mining Techniques for the Life Sciences, Section I: Databases, Pg 142-162 ISBN-10: 1603272402
7.	<i>Hong Sain Ooi, Georg Schneider, Teng-Ting Lim, Ying-Leong Chan, Birgit Eisenhaber, Frank Eisenhaber.</i> Biomolecular Pathway Databases. Book Chapter: Data Mining Techniques for the Life Sciences, Section I: Databases, Pg 129-144 ISBN-10: 1603272402
8.	<i>William KF Tse, Birgit Eisenhaber, Steven HK Ho, Qimei Ng, Frank Eisenhaber and Yun-Jin Jiang.</i> Genome-wide loss-of-function analysis of deubiquitylating enzymes for zebrafish development. BMC Genomics 2009, 10:637, doi:10.1186/1471-2164-10-637
9.	<i>Shubhra Ghosh Dastidar, David P. Lane and Chandra S. Verma.</i> Modulation of p53 binding to MDM2: computational studies reveal important roles of Tyr100. BMC Bioinformatics 2009, 10 (Suppl 15):S6, doi:10.1186/1471-2105-10-S15-S6
10.	<i>Christopher J. Brown, Sonia Lain, Chandra S. Verma, Alan R. Fersht, David P. Lane.</i> Awakening Guardians angels : drugging the p53 pathway. Nature Reviews Cancer 2009, Vol. 9, No. 12, Pg 862-873, doi:10.1038/nrc2763
11.	<i>Weimiao Yu, Hwee Kuan Lee, Srivats Hariharan, Shvetha Sankaran, Pascal Vallotton, Sohail Ahmed.</i> Segmentation of Neural Stem/Progenitor Cells Nuclei within 3-D Neurospheres. Advances in Visual Computing, ISVC 2009, Part 1, Vol 5875 of Lecture Notes in Computer Science, pg 531-543, doi: 10.1007/978-3-642-10331-5, ISBN: 978-3-642-10330-8
12.	<i>Qirong Ho, Weimiao Yu, Hwee Kuan Lee.</i> Region Graph Spectra as Geometric Global Image Features. Advances in Visual Computing, ISVC 2009, Part 1, Vol 5875 of Lecture Notes in Computer Science, pg 253-264, doi: 10.1007/978-3-642-10331-5, ISBN: 978-3-642-10330-8
13.	<i>Piroon Jenjaroenpun, Vladimir A Kuznetsov.</i> TTS Mapping : integrative WEB tool for analysis of triplex formation target DNA Sequences, G-quadruplets and non-protein coding regulatory DNA elements in the human genome. BMC Genomics 2009, Vol. 10 (Suppl 3) :S9, doi: 10.1186/1471-2164-10-S3-S9
14.	<i>Anil Kumar, Malathy Sony Subramanian Manimekalai, Asha Manikkoth Balakrishna, Jeyaraman Jeyakanthan and Gerhard Grüber.</i> Nucleotide Binding States of Subunit A of the A-ATP Synthase and the Implication of P-Loop Switch in Evolution. Journal of Molecular Biology doi:10.1016/j.jmb.2009.11.046

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16.	<i>Shubhra Ghosh Dastidar, Arumugam Madhumalar, Gloria Fuentes, David P. Lane, Chandra S. Verma.</i> Forces mediating protein-protein interactions: a computational study of p53 "approaching" MDM2. <i>Theoretical Chemistry Accounts</i> 2009, doi: 10.1007/s00214-009-0682-1
17.	<i>Christopher J. Brown, Shubhra G. Dastidar, Hai Yun See, David W Comber, Miguel Ortiz-Lombardia, Chandra Verma, David P. Lane.</i> Rational Design and biophysical characterization of Thioredoxin-based aptamers: Insights into peptide grafting. <i>Journal of Molecular Biology</i> 2009, doi: 10.1016/j.jmb.2009.10.069
18.	<i>Oleg Grinchuk, Piroon Jenjaroenpun, Yuriy L. Orlov, Jiangtao Zhou, Vladimir A. Kuznetsov.</i> Integrative analysis of the human cis-antisense gene pairs, miRNAs and their transcription regulation patterns. <i>Nuclei C Acids Research</i> , 2009, Pg 1-14, doi: 10.1093/nar/gkp954
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20.	<i>Minh N. Nguyen, Jianmin Ma, Gary B. Fogel, Jagath C. Rajapakse.</i> Di-codon usage for classification of genes. <i>Biosystems</i> , Vol. 98, Issue 1, Oct 2009, Pg 1-6, doi: 10.1016/j.biosystems.2009.06.005
21.	<i>Weiyi Toy, Shen Kiat Lim, Marie Chiew Shia Loh, Yoon-Pin Lim.</i> EGF-induced tyrosine phosphorylation of Endofin is dependent on PI3K activity and proper localization to endosomes. <i>Cellular Signalling</i> , Vol. 22, Issue 3, March 2010, Pg 437-446
22.	<i>Minoru Kanehisa, Vachiranee Limviphuvadh, Mao Tanabe.</i> Knowledge-Based Analysis of Protein Interaction Networks in Neurodegenerative Diseases. <i>Book Chapter: Neuroproteomics</i> , Pg 147-162, ISBN: 978-1-420076257
23.	<i>E. Motakis, V. A. Kuznetsov.</i> Genome-Scale Identification of Survival Significant Genes and Gene Pairs. <i>Proceedings of the World Congress on Engineering and Computer Science</i> 2009, Vol. 1, WCES 2009, October 20-22 2009, San Francisco, USA, Pg 41-46, ISBN:978-988-17012-6-8
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27.	<i>Wing-Cheong Wong, Siu-Yeung, Chai Quek.</i> R-POPTVR: A Novel Reinforcement-Based POPTVR Fuzzy Neural Network for Pattern Classification. <i>IEEE Transactions on Neural-Networks</i> , Vol. 20, No. 11, Nov 2009, doi: 10.1109/TNN.2009.2029857
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29.	<i>Minh N. Nguyen, Jianmin Ma, Gary B. Fogel, Jagath C. Rajapakse.</i> Di-codon Usage for Gene Classification. <i>Book Chapter : Pattern Recognition in Bioinformatics, Lecture Notes in Computer</i>

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31.	Cyrus Papan, Li Chen. Metabolic fingerprinting reveals developmental regulation of metabolites during early zebrafish embryogenesis . OMICS : A Journal of Integrative Biology, Vol 13, No. 5, 2009, doi:10.1089/omi.2009.0023
32.	Yan Nei Law, Hwee Kuan Lee, Chaoqiang Liu, Andy M. Yip. Supervised Texture Segmentation Using the Subspace Mumford-Shah Model . Proceedings of the 2009 International Conference on Image Processing, Computer Vision & Pattern Recognition, Volume II.
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