

Bioinformatics Institute Publications – 2013

1.	GONCEARENCO Alexander, MA Bin-Guang, BEREZOVSKY Igor N. Molecular mechanisms of adaptation emerging from the physics and evolution of nucleic acids and proteins . Nucleic Acids Research, 2013, Pg 1–14, doi:10.1093/nar/gkt1336
2.	EISENHABER Frank, SUNG Wing-Kin, WONG Limsoon. International Conference on Genome Informatics (GIW 2013) in Singapore: introduction to the systems biology contributions . BMC Systems Biology 2013, 7(Suppl 6):S11, doi:10.1186/1752-0509-7-S6-11
3.	LAW Kai Pong, LIM Yoon Pin. Recent advances in mass spectrometry: data independent analysis and hyper reaction monitoring . Expert Review of Proteomics, December 2013, Vol. 10, No. 6, Pages 551-566 , PMID: 24206228, doi: 10.1586/14789450.2013.858022
4.	PHANG Hui-Qun, HOON Jing-Ling, LAI Soak-Kuan, ZENG Yukai, CHIAM Keng-Hwee, LI Hoi-Yeung, KOH Cheng-Gee. POPX2 Phosphatase Regulates the KIF3 Kinesin Motor Complex . Journal of Cell Science 2013, Dec 11, doi: 10.1242/jcs.126482, PMID: 24338362
5.	XU Chi, CHENG Li. Efficient Hand Pose Estimation from a Single Depth Image . International Conference on Computer Vision (ICCV), 1-8 Dec 2013, Sydney, Australia
6.	MA Jianmin, EISENHABER Frank, MAURER-STROH Sebastian. Automatic Phylogenetic Classification of Baterial Beta-Lactamase Sequences Including Structural and Antibiotic Substrate Preference Information . Journal of Bioinformatics and Computational Biology, Vol. 11, No. 6 (2013), doi : 10.1142/S0219720013430117
7.	LAMA Dilraj, QUAH Soo Tng, VERMA Chandra, LAKSHMINARAYANAN Rajamani, BEUERMAN Roger, LANE David, BROWN Christopher. Rational Optimization of Conformational Effects Induced By Hydrocarbon Staples in Peptides and their Binding Interfaces . Scientific Reports 2013, 3:3451, doi : 10.1038/srep03451
8.	MAURER-STROH Sebastian, GUNALAN Vithiagaran, WONG Wing-Cheong, EISENHABER Frank. A simple shortcut to unsupervised alignment-free phylogenetic genome groupings, even from unassembled sequencing reads . Journal of Bioinformatics and Computational Biology, Vol. 11, No. 6 (2013), doi: 10.1142/S0219720013430051
9.	ZHANG Zong Hong, KHOO Aik Aun, MIHALEK Ivana. Cube - an online tool for comparison and contrasting of protein sequences . PLoS One, Nov 2013, Vol. 8, Issue 11, doi:10.1371/journal.pone.0079480
10.	LUKMAN Suryani, LANE David P, VERMA Chandra. Mapping the Structural and Dynamical Features of Multiple p53 DNA Binding Domains: Insights into Loop 1 Intrinsic Dynamics . PLoS One, November 2013, Vol. 8, Issue 11, doi:10.1371/journal.pone.0080221
11.	CHAN Weng-Tat, VERMA Chandra S, LANE David P, GAN Samuel Ken-En. A Comparison and Optimization of methods and factors affecting the Transformation of Escherichia coli . Bioscience Reports 2013, Nov 14, doi:10.1042/BSR20130098, PMID : 24229075
12.	KHOO Aik Aun, OGRIZEK-TOMAS Mario, BULOVIC Ana, KORPAR Matija, GURLER Ece, SLIJEPCEVIC Ivan, SIKIC Mile, MIHALEK Ivana. ExoLocator - an online view into genetic makeup of vertebrate proteins . Nucleic Acids Research, 2013, 1–3, doi:10.1093/nar/gkt1164
13.	JENJAROENPUN Piroon, KREMENSKA Yuliya, NAIR Vrundha M, KREMENSKOY Maksym, JOSEPH Baby, KUROCHKIN Igor V. Characterization of RNA in exosomes secreted by human breast cancer cell lines using next-generation sequencing . PeerJ. 2013 Nov 5, http://dx.doi.org/10.7717/peerj.201, PMID: 24255815
14.	GONG Tianxia, LIM Nengli, CHENG Li, LEE Hwee Kuan, SU Bolan, TAN Chew Lim, LI Shimiao, LIM C.C. Tchoyoson, PANG Boon Chuan, LEE Cheng Kiang. Finding Distinctive Shape Features for

	Automatic Hematoma Classification in Head CT Images from Traumatic Brain Injuries . IEEE International Conference on Tools with Artificial Intelligence (ICTAI Nov 2013, 4-6 Nov 2013, Washington DC, USA)
15.	JOSHI Anjali, LEE T.C. Raphael, MOHL Jonathan, SEDANO Melina, KHONG Wei Xin, NG Oon Tek, MAURER-STROH Sebastian, GARG Himanshu. Genetic Signatures of HIV-1 Envelope Mediated Bystander Apoptosis . The Journal of Biological Chemistry, 21 Nov 2013, doi:10.1074/jbc.M113.514018, PMID : 24265318
16.	NAM Seong-Won, QIAN Chen, KIM So Hyun, VAN NOORT Danny, CHIAM Keng-Hwee, PARK Sungsu. C. elegans sensing of and entrainment along obstacles require different neurons at different body locations . Scientific Reports 2013, Nov 27, 3:3247, doi : 10.1038/srep03247, PMID: 24284409
17.	KOH Yang Wei, LEE Hwee Kuan, OKABE Yutaka. Dynamically optimized Wang-Landau sampling with adaptive trial moves and modification factors . Physical Review 2013, Vol. 88, Issue 5, doi : 10.1103/PhysRevE.88.053302, PMID : 24329374
18.	ELSAWY Karim M, VERMA Chandra, LANE David, CAVES Leo. On the origin of the stereoselective affinity of Nutlin-3 geometrical isomers for the MDM2 protein . Cell Cycle 2013 Dec 15, Vol. 12, Issue 24, Pg 3727-3735, doi: 10.4161/cc.27273, PMID : 24270847
19.	OKABE Yutaka, LEE Hwee Kuan. Comparison of multi-label graph cuts method and Monte Carlo simulation with block-spin transformation for the piecewise constant Mumford-Shah segmentation model . Computer Vision and Image Understanding, Vol. 119 (Feb 2014), Pg 15-26, http://dx.doi.org/10.1016/j.cviu.2013.11.001
20.	GUO Alvin Kunyao, HOU Yanyan, HIRATA Hiroaki, YAMAUCHI Shota, YIP Aik Kia, CHIAM Keng-Hwee, TANAKA Nobuyuki, SAWADA Yasuhiro, KAWAUCHI Keiko. Loss of p53 Enhances NF-kB-Dependent Lamellipodia Formation . Journal of Cellular Physiology 2013, doi: 10.1002/jcp.24505
21.	KUCHIBATLA Durga, SHERMAN Westley, CHUNG Betty Y.W, COOK Shelly, SCHNEIDER Georg, EISENHABER Birgit, KARLIN David G. Powerful sequence similarity search methods and in-depth manual analyses can identify remote homologs in many apparently "orphan" viral proteins . Journal of Virology, Jan 2014, Vol. 88, Issue 1, doi: 10.1128/JVI.02595-13
22.	LEE Tze Chuen Raphael, GUNALAN Vithiagarar, THANH Dac Van, LY Thi Le, EISENHABER Frank, MAURER-STROH Sebastian. A new piece in the puzzle of the novel avian-origin influenza A (H7N9) virus . Biology Direct 2013, 8:26 doi:10.1186/1745-6150-8-26, PMID: 24160334
23.	LEANG Sook-Kwan, KWOK Simon, SULLIVAN Sheena G, MAURER-STROH Sebastian, KELSO Anne, BARR Ian G, HURT Aeron C. Peramivir and laninamivir susceptibility of circulating influenza A and B viruses . Influenza and Other Respiratory Viruses, 2013, doi : 10.1111/irv.12187
24.	PEREIRA Mariana, VERMA Chandra, FUENTES Gloria. Differences in the Binding Affinities of ErbB Family: Heterogeneity in the Prediction of Resistance Mutants . PLoS One, October 2013, Vol. 8, Issue 10, doi:10.1371/journal.pone.0077054
25.	LAKSAMEETHANASAN Danai, TAN Rui Zhen, TOH Wei-Ling Geraldine, LOO Lit-Hsin. cellXpress: a fast and user-friendly software platform for profiling cellular phenotypes . BMC Bioinformatics 2013, 14(Suppl 16):S4, http://www.biomedcentral.com/1471-2105/14/S16/S4, doi:10.1186/1471-2105-14-S16-S4
26.	SIKIC Mile, LANCIC Alen, ANTULOV-FANTULIN Nino, STEFANCIC Hrvoje. Epidemic centrality - is there an underestimated epidemic impact of network peripheral nodes? The European Physical Journal B, Oct 2013, Vol. 86, Issue 10, doi: 10.1140/epjb/e2013-31025-5
27.	BATAGOV Arsen, YARMISHYN Aliaksandr, JENJAROENPUN Piroon, TAN Jovina, NISHIDA Yuichiro, KUROCHKIN Igor. Role of genomic architecture in the expression dynamics of long noncoding

	RNAs during differentiation of human neuroblastoma cells. BMC Systems Biology 2013, 7(Suppl 3):S11, doi:10.1186/1752-0509-7-S3-S11
28.	CELIK Turgay, LEE Hwee Kuan, PETZNICK Andrea, TONG Louis. Bioimage Informatics Approach to Automated Meibomian Gland Analysis in Infrared Images of Meibography. Journal of Optometry, 2013, http://dx.doi.org/10.1016/j.optom.2013.09.001
29.	NTIE-KANG Fidele, KANNAN Srinivasaraghavan, WICHAPONG Kanin, OWONO OWONO Luc C, SIPPL Wolfgang, MEGNASSAN Eugene. Binding of pyrazole-based inhibitors to Mycobacterium tuberculosis pantothenate synthetase: Docking and MM-GB(PB)SA analysis. Molecular BioSystems 2013, doi: 10.1039/C3MB70449A
30.	MAITY Atanu, YADAV Seema, VERMA Chandra, Shubhra DASTIDAR Shubhra Ghosh. Dynamics of Bcl-xL in Water and Membrane: Molecular Simulations. PloS One, October 2013, Vol. 8, Issue 10, doi:10.1371/journal.pone.0076837, PMID : 24116174
31.	RIBES-ZAMORA Albert, INDIVIGLIO Sandra , MIHALEK Ivana, WILLIAMS Christopher, BERTUCH Alison. TRF2 Interaction with Ku Heterotetramerization Interface Gives Insight into c-NHEJ Prevention at Human Telomeres. Cell Reports, Vol. 5, Issue 1, 3 Oct 2013, Pg 194-206, 2013, doi: 10.1016/j.celrep.2013.08.040, PMID : 24095731
32.	GARG Himanshu, LEE Raphael Tze Chuen, NG Oon Tek, MAURER-STROH Sebastian, JOSHI Anjali. Identification of conserved motifs in the West Nile virus envelope essential for particle secretion. BMC Microbiology 2013 Sep 4;13(1):197, PMID : 24007503
33.	Saunders SP, Goh CS, Brown SJ, Palmer CN, Porter RM, Cole C, Campbell LE, Gierlinski M, Barton GJ, Schneider G, Balmain A, Prescott AR, Weidinger S, Baurecht H, Kabesch M, Gieger C, Lee YA, Tavendale R, Mukhopadhyay S, Turner SW, Madhok VB, Sullivan FM, Relton C, Burn J, Meggitt S, Smith CH, Allen MA, Barker JN, Reynolds NJ, Cordell HJ, Irvine AD, McLean WH, Sandilands A, Fallon PG. Tmem79/Matt is the matted mouse gene and is a predisposing gene for atopic dermatitis in human subjects. The Journal of Allergy and Clinical Immunology, 28 Sep 2013, doi: 10.1016/j.jaci.2013.08.046, PMID : 24084074
34.	SRINIVASARAGHAVAN Kannan, NACRO Kassoum, GRUBER Gerhard, VERMA Chandra. Effect of Ser392 Phosphorylation on Structure and Dynamics of PB domain of ARNO protein: A Molecular Simulations study. Biochemistry, Oct 1, 2013, DOI: 10.1021/bi400912e, PMID: 24083777.
35.	MARAKASOVA E.S, AKHMATOVA N.K, AMAYA M, EISENHABER B, EISENHABER F, VAN HOECK M.L, BARANOVA A.V. Prenylation: From bacteria to eukaryotes. Molecular Biology Sept 2013, Vol. 47, Issue 5, Pg 622-633
36.	HERNYCHOVA L, MAN P, VERMA C, NICHOLSON J, SHARMA CA, RUCKOVA E, TEO JY, BALL K, VOJTESEK B, HUPP TR. Identification of a Second Nutlin-3 Responsive Interaction Site in the N-terminal Domain of MDM2 Using Hydrogen/Deuterium Exchange Mass Spectrometry. Proteomics, 2013 Aug;13(16):2512-25. doi: 10.1002/pmic.201300029, PMID : 23776060
37.	LAW Yan Nei. Cell tracking using phase-adaptive shape prior. Journal of Microscopy, 2013, doi: 10.1111/jmi.12078, PMID: 23962006
38.	TANAVDE Vivek. Using Next Generation Sequencing to understand Stem Cell biology. BioPharma Asia, July/August 2013
39.	NONGPIUR Monisha, GONG Tianxia, LEE Hwee Kuan, PERERA Shamira, CHENG Li, FOO Li-Lian, HE Mingguang, FRIEDMAN David S, AUNG Tin. Subgrouping of Primary Angle-Closure Suspects Based on Anterior Segment Optical Coherence Tomography Parameters. Ophthalmology 2013 Dec;120(12):2525-31. doi: 10.1016/j.ophtha.2013.05.028, PMID : 23916486
40.	DINH TA, SILANDER T, SU B, GONG Tianxia, PANG BC, LIM C.C.T, LEE CK, TAN CL, LEONG TY. Unsupervised medical image classification by combining case-based classifiers. Proceedings :

	In Proceedings of the 14th World Congress on Health and Biomedical Informatics (MEDINFO 2013), Copenhagen, Denmark, Aug 2013
41.	LOW Diana H.P, MOTAKIS Efthymios. deltaGseg: Macrostate estimation via molecular dynamics simulations and multiscale time series analysis . Bioinformatics Advance, 17 July 2013
42.	TANG Zhiqun, OW Ghim Siong, THIERY Jean Paul, IVSHINA Anna V, KUZNETSOV Vladimir A. Meta-analysis of transcriptome reveals let-7b as an unfavorable prognostic biomarker and predicts molecular and clinical sub-classes in high-grade serous ovarian carcinoma . International Journal of Cancer 2013 Jul 3, doi: 10.1002/ijc.28371, PMID : 23825028
43.	HUANG Chao-Hui. A Fast Method for Spine Localization in X-ray Images . 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 3-7 July, 2013, Osaka, Japan
44.	RIGAUD Stephane, HUANG Chao-Hui, AHMED Sohail, LIM Joo-Hwee, RACOCEANU Daniel. An Analysis-Synthesis Approach for Neurosphere Modelisation Under Phase-Contrast Microscopy . 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 3-7 July, 2013, Osaka, Japan
45.	HUANG Chao-Hui. Pose Estimation for Vertebral Mobility Analysis using eXclusive-ICA based Boosting (XICABOOST) Algorithm . 2013 IEEE International Conference on Neural Networks (IJCNN2013), Dallas, TX, 4-9 Aug, 2013
46.	NANJAPPA Ashwin. Instant GLEW . Book Chapter: Packt Publishing, 26 July 13, ISBN : 978-1783280476
47.	BATAGOV Arsen O, KUROCHKIN Igor V. Exosomes secreted by human cells transport largely mRNA fragments that are enriched in the 3'-untranslated regions . Biology Direct 2013, 8:12, doi:10.1186/1745-6150-8-12, PMID: 23758897
48.	GUZMAN Celeste, GONG Tianxia, NONGPIUR Monisha, PERERA Shamira, HOW Alicia, LEE Hwee Kuan, CHENG Li, HE Mingguang, BASKARAN Mani, AUNG Tin. Anterior Segment Optical Coherence Tomography Parameters in Subtypes of Primary Angle Closure . Investigative Ophthalmology & Visual Science, June 20, 2013, 54, Pg 5281-5286 doi: 10.1167/iovs.13-12285, PMID : 23788370.
49.	GONCEARENCO Alexander, MITTERNACHT Simon, YONG Tai Pang, EISENHABER Birgit, EISENHABER Frank, BEREZOVSKY Igor. SPACER: server for predicting allosteric communication and effects of regulation . Nuclei Acids Research 2013, Jul 1;41(W1):W266-W272, PMID: 23737445, doi: 10.1093/nar/gkt460
50.	PLASMAN Kim, MAURER-STROH Sebastian, AHMAD Jamshaid, HAN Hao, KAISERMAN Dion, SIROTA Fernanda L, JONCKHEERE Veronique, BIRD Philip, GEVAERT Kris, VAN DAMME Petra. Conservation of the extended substrate specificity profiles among homologous granzymes across species . Molecular & Cellular Proteomics 2013, 20 Jun, doi: 10.1074/mcp.M113.028670, PMID: 23788529
51.	TAN Kuan Pern, NGUYEN Thanh Binh, PATEL Siddharth, VARADARAJAN Raghavan, M.S. MADHUSUDHAN. Depth: a web server to compute depth, cavity sizes, detect potential small-molecule ligand-binding cavities and predict the pKa of ionizable residues in proteins . Nucleic Acids Research 2013, Vol. 41, Pg 314-321, doi:10.1093/nar/gkt503
52.	PIETIKAINEN Matti, TURK Matthew, WANG Liang, ZHAO Guoying, CHENG Li. Machine learning in motion analysis: New advance . Image and Vision Computing (IVC), Vol.31, Issue 6-7, 2013, Pg 419-420
53.	CHENG Li. Riemannian Similarity Learning . International Conference on Machine Learning (ICML), 16-21 Jun 2013, Atlanta, USA
54.	DE Jaydeep, MA Tengfei, LI Huiqi, DASH M, CHENG Li. Automated Tracing of Retinal Blood

	Vessels Using Graphical Models . 18th Scandinavian Conference on Image Analysis, SCIA 2013, Espoo, Finland, 17-20 Jun 2013
55.	GUARNACCIA T, CAROLAN LA, MAURER-STROH S, LEE TC, JOB E, READING PC, PETRIE S, MCCAW JM, MCVERNON J, HURT AC, KELSO A, MOSSE J, BARR IG, LAURIER KL. Antigenic Drift of the Pandemic 2009 A(H1N1) Influenza Virus in a Ferret Model . PLoS Pathogens May 2013, Vol. 9, Issue 5, doi:10.1371/journal.ppat.1003354, PMID: 23671418
56.	TRAN-VIET Khanh-Nath, POWELL Caldwell, BARATHI Veluchamy, KLEMM Thomas, MAURER-STROH Sebastian, LIMVIPHUVADH Vachiranee, SOLER Vincent, HO Candice, YANOVITCH Tammy, SCHNEIDER Georg, LI Yi-Ju, NADING Erica, METLAPALLY Ravikanth, SAW Seang-Mei, GOH Liang, ROZEN Steve, YOUNG Terri. Mutations in SCO2 Are Associated with Autosomal-Dominant High-Grade Myopia . The American Journal of Human Genetics, Vol. 92, issue 5, Pg 820-826, 2 May 2013, doi:10.1016/j.ajhg.2013.04.005, PMID: 23643385
57.	MAURER-STROH Sebastian, LEE TC Raphael, GUNALAN Vithiagarar, EISENHABER Frank. The highly pathogenic H7N3 avian influenza strain from July 2012 in Mexico acquired an extended cleavage site through recombination with host 28S rRNA . Virology Journal 2013, 10:139, doi : 10.1186/1743-422X-10-139, PMID:23635025
58.	CHNG Choon-Peng. Effect of simulation temperature on phospholipid bilayer-vesicle transition studied by coarse-grained molecular dynamics simulations . Soft Matter, 2013, 9, Pg 7294-7301, doi : 10.1039/C3SM51038G
59.	QIAN Chen, WONG Chui Ching, SWARUP Sanjay, CHIAM Keng-Hwee. Bacterial tethering analysis reveals a "run-reverse-turn" mechanism for pseudomonas species motility . Applied and Environmental Microbiology, August 2013, Vol. 79, No. 15, Pg 4734-43. doi: 10.1128/AEM.01027-13, PMID: 23728820
60.	NGUYEN Thanh Binh, JAYARAMAN Priya, BERGSENG Elin, MADHUSUDHAN MS, SOLLID Ludvig, KIM Chu-Young. X-ray crystal structure of HLA-DQ2 in complex with CLIP1 and CLIP2 (P5026) . The Journal of Immunology May 2013, Issue no. 190, 41.14
61.	SAW Wuan Geok, EISENHABER Birgit, EISENHABER Frank, GRUBER Gerhard. Low resolution structure of the soluble domain GPAA1 (yGPAA170-247) of the glycosylphosphatidylinositol transamidase subunit GPAA1 from Saccharomyces cerevisiae . Bioscience Reports 2013, doi: 10.1042/BSR20120107, PMID: 23458223
62.	SIAU Jia Wei, JOSEPH Thomas, SIM Y. L. Adelene, YURLOVA Larisa, SOLGHADR Kourosh, LANE David, VERMA Chandra, GHADESSY Farid. In Vitro Selection of Mutant HDM2 Resistant to Nutlin Inhibition . PLoS One, April 2013, Vol 8, Issue 4, doi: 10.1371/journal.pone.0062564
63.	LAW Yan Nei, LEE Hwee Kuan, YIP Andy. Learning Dynamical Shape Prior for Level Set based Cell Tracking . Annals of the BMVA, Vol. 2013, No. 6, pp1-14
64.	OW Ghim Siong, JENJAROENPUN Piroon, THIERY Jean-Paul, KUZNETSOV Vladimir. How to discriminate between potentially novel and considered biomarkers within molecular signature? 2013 IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology (IEEE CIBCB 2013), April 15-19, Singapore
65.	WONG Sum Thai, TEO Soo-Kng, PARK Sungsu, CHIAM Keng-Hwee, YIM Evelyn. Anisotropic rigidity sensing on grating topography directs human mesenchymal stem cell elongation . Biomechanics and Modeling in Mechanobiology, Jan 2014, Vol. 13, Issue 1, pg 27-39, doi:10.1007/s10237-013-0483-2
66.	ANTULOV-FANTULIN Nino, LANCIC Alen, STEFANCIC Hrvoje, SIKIC Mile. FastSIR algorithm: A fast algorithm for the simulation of the epidemic spread in large networks by using the susceptible-infected-recovered compartment model . Information Sciences, Vol. 239, 2013, Pg. 226-240

67.	SUNDARAM Gopinath, COMMON John, GOPAL Felicia, SRIKANTA Satyanarayana, LAKSHMAN Krishnaswamy, LUNNY Declan, LIM Thiam C, TANAVDE Vivek, LANE Birgitte, SAMPATH Prabha. ‘See-saw’ expression of microRNA-198 and FSTL1 from a single transcript in wound healing. Nature, 10 Feb 2013, doi:10.1038/nature11890, PMID : 23395958
68.	ZOU Hanxun, KOH Jun-Jie, LI Jianguo, QIU Shengxiang, AUNG Thet Thun LIN Huifen, LAKSHMINARAYANAN Rajamani, DAI Xiaoping, TANG Charles, LIM Fang Hui, ZHOU Lei, TAN Ai Ling, VERMA Chandra, TAN Donald, CHAN Hardy, SARASWATHI Padmanabhan, CAO Derong, LIU Shouping, BEUERMAN Roger. Design and Synthesis of Amphiphilic Xanthone-Based, Membrane-Targeting Antimicrobials with Improved Membrane Selectivity. Journal of Medicinal Chemistry, March 2013, doi : 10.1021/jm301683j, PMID : 23441632
69.	QUINTANILLA Renee, ASPRER Joanna, VAZ Candida, TANAVDE Vivek, LAKSHMIPATHY Uma. CD44 Is a Negative Cell Surface Marker for Pluripotent Stem Cell Identification during Human Fibroblast Reprogramming. PLOS One, 2014, doi: 10.1371/journal.pone.0085419
70.	SOLER VJ, TRAN-VIET, GALIACY SD, LIMVIPHUVADH Vachirane, KLEMM TP, ST GERMAIN E, FOURNIE PR, GUILLAUD C, MAURER-STROH Sebastian, HAWTHORNE F, SUAREZ C, KANTELIP B, AFSHARI NA, CREVEAUX I, LUO X, MENG W, CALVAS P, CASSAGNE M, ARNE JL, ROZEN SG, MALACAZE F, YOUNG TL. Whole exome sequencing identifies a mutation for a novel form of corneal intraepithelial dyskeratosis. Journal of Medical Genetics, 24 Jan 2013, doi:10.1136/jmedgenet-2012-101325, PMID :23349227
71.	JOB Emma, DENG Yi-Mo, BARFOD Kenneth, TATE Michelle, CALDWELL Natalie, REDDIEX Scott, MAURER-STROH Sebastian, BROOKS Andrew, READING Patrick. Addition of Glycosylation to Influenza A Virus Hemagglutinin Modulates Antibody-Mediated Recognition of H1N1 2009 Pandemic Viruses. The Journal of Immunology 2013, Mar 1;190(5) Pg. 2169-77. doi: 10.4049/jimmunol.1202433, PMID: 23365085
72.	MAURER-STROH Sebastian, GAO He, HAN Hao, SCHYMKOWITZ Joost, ROUSSEAU Frederic, ZHANG Louxin, EISENHABER Frank. Motif discovery with data mining in 3d protein structure databases: discovery, validation and prediction of the u-shape zinc binding ("huf-zinc") motif. Journal of Bioinformatics and Computational Biology, Vol. 11, No. 1 (2013), doi:10.1142/S0219720013400088, PMID : 23427990
73.	KUZNETSOV VA, LEE HK, MAURER-STROH S, MOLNAR MJ, PONGOR S, EISENHABER B, EISENHABER F. How bioinformatics influences health informatics: Usage of biomolecular sequences, expression profiles and automated microscopic image analyses for clinical needs and public health. Health Information Science and Systems 2013, 1:2 doi:10.1186/2047-2501-1-2
74.	YADAV K, LIN F, WASSER M. Quantitative Time-Series Analysis of Muscle Cell Dynamics in Drosophila Metamorphosis. International Workshop on Advanced Image Technology 2013, (Nagoya, Japan), 7-9 Jan 2013
75.	SIMOES Eric, PATEL Champa, SUNG Wing-Kin, LEE Charlie, HON Loh Kuah, LUCERO Marilla, NOHYNEK Hanna, NAI Geraldine, LING Thien Pei, WEE Koh Chee, SUN Chan Yang, MA Jianmin, MAURER-STROH Sebastian, CAROSONE-LINK Phyllis, HIBBERD Martin, WONG Christopher, ARIVAC Consortium. A Pathogen Chip for Respiratory Tract Infection. Journal of Clinical Microbiology, 2013, doi: 10.1128/JCM.02317-12, PMID: 23303493