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Valouev A*, **Zhang Y***, Schwartz DC, Waterman MS (2006) Refinement of optical map assemblies. *Bioinformatics.* 22(10):1217-1224. (*equal contribution)

Valouev A, Li L, Liu Y, Schwartz DC, Yang Y, **Zhang Y**, Waterman MC (2006) Alignment of optical maps. *J. Comp. Biol.* 13(2):442-462.

Zhang Y, Waterman MS (2005) An Eulerian path approach to local multiple alignment for DNA sequences. *PNAS.* 102(5):1285-1290.

Zhang Y, Waterman MS (2003) An Eulerian path approach to global multiple alignment for DNA sequences. *J. Comp. Biol.*, 10(6): 803-819.

Zhang Y, Waterman MS (2003) DNA sequence assembly and multiple DNA sequence alignment by an Eulerian path approach. *Cold Spring Harb Symp Quant Biol.*, 68:205-212

Waterman MS, **Zhang Y** (2003) Eulerian methods for multiple sequence alignment. *Proceedings of the 2003 IEEE Bioinformatics Conference, CSB 2003*, IEEE Computer Society, Order Number PR02000, Aug 11-14

INVITED TALKS

Jun 26th, 2009 Peking University, Beijing, China, to be determined

Jun 29th, 2009 IMS, Seoul, Korea, to be determined

Jan 6th, 2009 The Pacific Symposium on Biocomputing (PSB) 2009, Big Island, Hawaii, USA. "Reconstructing Evolutionary History for Complex Gene Clusters in Multiple Primates".

Oct 16th, 2008 Department of Statistics, University of Illinois Urbana Champaign. "False Positive Control in Genome ChIP-chip tiling arrays.

Oct 10th, 2008 Krishnaiah and Khatri Lecture Series: Frontiers of Evolutionary Biology. Department of Statistics, PennState, "Reconstructing Evolutionary History for Complex Gene Clusters in Multiple Primates".

Apr 18th, 2008 Center of Bioinformatics, George Washington University. "Bayesian Methods in Disease Association Mapping".

Mar 30th, 2008 12th Annual International Conference on Research in Computational Molecular Biology (RECOMB) 2008, "Reconstructing the evolutionary history of complex human gene clusters".

Jan 2nd, 2008 Department of Statistics, Peking University. "Bayesian Methods in Disease Association Mapping".

- Feb 7th, 2007 Department of Biostatistics, the Pennsylvania State University, Hershey Medical School. "Mapping Epistasis in Case-Control Studies: a Bayesian Approach"
- Mar 1st 2006 Center of Genomics, University of Wisconsin. "Efficient Approaches to Multiple Sequence Alignment and Disease Epistasis Mapping"
- Feb 27th, 2006 Department of Computer Science, University of Minnesota. "Efficient Approaches to Multiple Sequence Alignment and Disease Epistasis Mapping"
- Feb 14th, 2006 Department of Biostatistics, Johns Hopkins University. "Bayesian Methods in Haplotype Inference and Disease Mapping"
- Feb 7th, 2006 Department of Statistics, University of California, Davis. "Bayesian Methods in Haplotype Inference and Disease Mapping"
- Jan 26th, 2006 Department of Biostatistics, Boston University. "Bayesian Methods in Haplotype Inference and Disease Mapping"
- Jan 19th, 2006 Department of Statistics, the Pennsylvania State University. "Bayesian Methods in Haplotype Inference and Disease Mapping"

GRANTS

ACTIVE

NIH RO1 HG004718-01 08/15/2008 –06/30/2011
Bayesian Methods for Epistasis Association Mapping
PI: Yu Zhang

NIH RO1 HG02238-18S1 01/01/2008-06/30/2008
Software for Analyzing Biosequence Data
PI: Webb Miller

PENDING

NIH RO1 DK065806-06
Global Predictions and Tests of Erythroid Regulation
PI: Ross Hardison