



Scientific Publications

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Organism	Article Title	Authors	Journal Reference
ChIP-chip or DNase-chip			
yeast	Arginine methylation at histone H3R2 controls deposition of H3K4 trimethylation	Kirmizis A, <i>et al.</i>	<i>Nature</i> . 2007 Sep 26 [Epub ahead of print].
human	A histone H3 lysine 27 demethylase regulates animal posterior development	Lan F, <i>et al.</i>	<i>Nature</i> . 2007 Sep 12 [Epub ahead of print].
human	Identification and Characterization of Cell Type-Specific and Ubiquitous Chromatin Regulatory Structures in the Human Genome	Xi H, <i>et al.</i>	<i>PLoS Genet</i> . 2007 Aug 17;3(8):e136 [Epub ahead of print].
<i>Plasmodium</i> and <i>Toxoplasma</i>	SET8-mediated methylations of histone H4 lysine 20 mark silent heterochromatic domains in apicomplexan genomes	Sautel CF, <i>et al.</i>	<i>Mol Cell Biol</i> . 2007 Aug;27(16):5711-24. Epub 2007 Jun 11.
yeast	The fission yeast <i>jmj2</i> reverses histone H3 Lysine 4 trimethylation	Huarte M, <i>et al.</i>	<i>J Biol Chem</i> . 2007 Jul 27;282(30):21662-70. Epub 2007 Jun 5.
human	Epigenetic Regulation of Protein-Coding and MicroRNA Genes by the Gfi1-Interacting, Tumor Suppressor PRDM5	Duan Z, <i>et al.</i>	<i>Mol Cell Biol</i> . 2007 Jul 16 [Epub ahead of print].
human	Bcl-6 mediates the germinal center B cell phenotype and lymphomagenesis through transcriptional repression of the DNA-damage sensor ATR	Ranuncolo SM, <i>et al.</i>	<i>Nat Immunol</i> . 2007 Jul;8(7):705-14. Epub 2007 Jun 10.
human	Functional demarcation of active and silent chromatin domains in human HOX loci by noncoding RNAs	Rinn JL, <i>et al.</i>	<i>Cell</i> . 2007 Jun 29;129(7):1311-23.
human	Identification and analysis of functional elements in 1% of the human genome by the ENCODE pilot project	ENCODE Project Consortium	<i>Nature</i> . 2007 Jun 14;447(7146):799-816.
human	Global distribution of negative cofactor 2 subunit-alpha on human promoters	Albert TK, <i>et al.</i>	<i>PNAS</i> . 2007 Jun 12;104(24):10000-5. Epub 2007 Jun 4.
human	Determinants of Cell- and Gene-Specific Transcriptional Regulation by the Glucocorticoid Receptor	So AY, <i>et al.</i>	<i>PLoS Genet</i> . 2007 Jun 8;3(6):e94 [Epub ahead of print].
<i>Toxoplasma gondii</i>	Epigenomic Modifications Predict Active Promoters and Gene Structure in <i>Toxoplasma gondii</i>	Gissot M, <i>et al.</i>	<i>PLoS Pathog</i> . 2007 Jun 8;3(6):e77 [Epub ahead of print].
human	Analysis of overrepresented motifs in human core promoters reveals dual regulatory roles of YY1	Xi H, <i>et al.</i>	<i>Genome Res</i> . 2007 Jun;17(6):798-806.
human	BCL6 programs lymphoma cells for survival and differentiation through distinct biochemical mechanisms	Parekh S, <i>et al.</i>	<i>Blood</i> . 2007 Jun 1 [Epub ahead of print].
human	FAIRE (Formaldehyde-Assisted Isolation of Regulatory Elements) isolates active regulatory elements from human chromatin	Giresi PG, <i>et al.</i>	<i>Genome Res</i> . 2007 Jun;17(6):877-85. Epub 2006 Dec 19.
human	Genome-Wide Analysis of KAP1 Binding Suggests Autoregulation of KRAB-ZNFs	O'Geen H, <i>et al.</i>	<i>PLoS Genet</i> . 2007 Jun 1;3(6):e89 [Epub ahead of print].
human	Identification of an OCT4 and SRY regulatory module using integrated computational and experimental genomics approaches	Jin VX, <i>et al.</i>	<i>Genome Res</i> . 2007 Jun;17(6):807-17.
human, mouse	Independent and complementary methods for large-scale structural analysis of mammalian chromatin	Dennis JH, <i>et al.</i>	<i>Genome Res</i> . 2007 Jun;17(6):928-39.
human	Mapping of transcription factor binding regions in mammalian cells by ChIP: Comparison of array- and sequencing-based technologies	Euskirchen GM, <i>et al.</i>	<i>Genome Res</i> . 2007 Jun;17(6):898-909.

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ChIP-chip or DNase-chip (cont.)			
human	Mapping the chromosomal targets of STAT1 by Sequence Tag Analysis of Genomic Enrichment (STAGE)	Bhinge AA, <i>et al.</i>	<i>Genome Res.</i> 2007 Jun;17(6):910-6.
human	Statistical analysis of the genomic distribution and correlation of regulatory elements in the ENCODE regions	Zhang ZD, <i>et al.</i>	<i>Genome Res.</i> 2007 Jun;17(6):787-97.
human	Identification of genes directly regulated by the oncogene ZNF217 using ChIP-chip assays	Krig SR, <i>et al.</i>	<i>GBiol Chem.</i> 2007 Mar 30;282(13):9703-12. Epub 2007 Jan 26.
human	Analysis of the Vertebrate Insulator Protein CTCF-Binding Sites in the Human Genome	Kim TH, <i>et al.</i>	<i>Cell.</i> 2007 Mar 23;128(6):1231-45.
fly	Histone replacement marks the boundaries of cis-regulatory domains	Mito Y, <i>et al.</i>	<i>Science.</i> 2007 Mar 9;315(5817):1408-11.
<i>Arabidopsis</i>	Analysis of Transcription Factor HY5 Genomic Binding Sites Revealed Its Hierarchical Role in Light Regulation of Development	Lee J, <i>et al.</i>	<i>Plant Cell.</i> 2007 Mar;19(3):731-49. Epub 2007 Mar 2.
human	Multiple enhancer regions located at significant distances upstream of the transcriptional start site mediate RANKL gene expression in response to 1,25-dihydroxyvitamin D3	Kim S, <i>et al.</i>	<i>J Steroid Biochem Mol Biol.</i> 2007 Mar;103(3-5):430-4. Epub 2007 Jan 2.
human	The Polycomb group proteins bind throughout the INK4A-ARF locus and are disassociated in senescent cells	Bracken AP, <i>et al.</i>	<i>Genes Dev.</i> 2007 Mar 1;21(5):525-30.
human	Transcriptional signature with differential expression of BCL6 target genes accurately identifies BCL6-dependent diffuse large B cell lymphomas	Polo JM, <i>et al.</i>	<i>PNAS.</i> 2007 Feb 27;104(9):3207-12. Epub 2007 Feb 2.
human	High-throughput mapping of the chromatin structure of human promoters	Ozsolak F, <i>et al.</i>	<i>Nat Biotechnol.</i> 2007 Feb;25(2):244-8. Epub 2007 Jan 14.
<i>C. elegans</i>	X chromosome repression by localization of the <i>C. elegans</i> dosage compensation machinery to sites of transcription initiation	Ercan S, <i>et al.</i>	<i>Nat Genet.</i> 2007;39(3), 403 - 408.
human	Distinct and predictive chromatin signatures of transcriptional promoters and enhancers in the human genome	Heintzman ND, <i>et al.</i>	<i>Nat Genet.</i> 2007 Mar;39(3):311-8. Epub 2007 Feb 4.
human	Expression of RAB4B, a protein governing endocytic recycling, is co-regulated with MHC class II genes	Krawczyk M, <i>et al.</i>	<i>Nucleic Acids Res.</i> 2007;35(2):595-605. Epub 2006 Dec 15.
<i>E. coli</i>	The Transition between Transcriptional Initiation and Elongation in <i>E. coli</i> Is Highly Variable and Often Rate Limiting	Reppas NB, <i>et al.</i>	<i>Mol Cell.</i> 2006 Dec 8;24(5):747-57.
fly	Prospero Acts as a Binary Switch between Self-Renewal and Differentiation in <i>Drosophila</i> Neural Stem Cells	Choksi SP, <i>et al.</i>	<i>Dev Cell.</i> 2006 Dec;11:775-789.
human	Comparison of sample preparation methods for ChIP-chip assays	O'Geen H, <i>et al.</i>	<i>BioTechniques.</i> 2006 Nov;41(5): 577-580.
<i>S. cerevisiae</i>	Genome-wide mapping of ORC and Mcm2p binding sites on tiling arrays and identification of essential ARS consensus sequences in <i>S. cerevisiae</i>	Xu W, <i>et al.</i>	<i>BMC Genomics.</i> 2006;7:276.
human	A computational genomics approach to identify cis-regulatory modules from chromatin immunoprecipitation microarray data—A case study using E2F1	Jin VX, <i>et al.</i>	<i>Genome Res.</i> 2006 Oct 19 [Epub ahead of print].
human	Proximal genomic localization of STAT1 binding and regulated transcriptional activity	Wormald S, <i>et al.</i>	<i>BMC Genomics.</i> 2006;7:254.
mouse	Distinct Functions of Dispersed GATA Factor Complexes at an Endogenous Gene Locus	Grass JA, <i>et al.</i>	<i>Mol Cell Biol.</i> 2006 Oct;26(19):7056-67.
human	Identifying gene regulatory elements by genomic microarray mapping of DNaseI hypersensitive sites	Follows GA, <i>et al.</i>	<i>Genome Res.</i> Oct 2006;16:1310-1319.
<i>Candida albicans</i>	TOS9 regulates white-opaque switching in <i>Candida albicans</i>	Srikantha T, <i>et al.</i>	<i>Cell.</i> 2006 Oct;5(10):1674-87. Epub 2006 Sep 1.
human	1,25-Dihydroxyvitamin D3 Regulates the Expression of Low-Density Lipoprotein Receptor-Related Protein 5 via Deoxyribonucleic Acid Sequence Elements Located Downstream of the Start Site of Transcription	Fretz JA, <i>et al.</i>	<i>Mol Endocrinol.</i> 2006 Sep;20(9): 2215-2230.
human	Activation of Receptor Activator of NF-B Ligand Gene Expression by 1,25-Dihydroxyvitamin D3 Is Mediated through Multiple Long-Range Enhancers	Kim S, <i>et al.</i>	<i>Mol Cell Biol.</i> 2006 Sep;26(17):6469-6486.
<i>Salmonella</i>	Selective silencing of foreign DNA with low GC content by the H-NS protein in <i>Salmonella</i>	Navarre WW, <i>et al.</i>	<i>Science.</i> 2006 Jul 14;313(5784):236-8. Epub 2006 Jun 8.

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ChIP-chip or DNase-chip (cont.)			
<i>Arabidopsis</i>	Development of <i>Arabidopsis</i> whole-genome microarrays and their application to the discovery of binding sites for the TGA2 transcription factor in salicylic acid-treated plants	Thibaud-Nissen F, <i>et al.</i>	<i>Plant J.</i> 22006 Jul;47(1):152-62.
human	DNase-chip: a high-resolution method to identify DNase I hypersensitive sites using tiled microarrays	Crawford GE, <i>et al.</i>	<i>Nature Methods.</i> 2006 Jun;3, 503 - 509 (2006) [Epub ahead of print].
human	Genome-scale mapping of DNase I sensitivity <i>in vivo</i> using tiling DNA microarrays	Sabo PJ, <i>et al.</i>	<i>Nature Methods.</i> 2006 Jun;3(7):511-18. Published online: 21 June 2006.
Review	News and Views: How to find an opening (or lots of them)	Giresi PG & Lieb JD	<i>Nature Methods.</i> 2006 Jun;3(7) 501-2 [Epub ahead of print].
human, mouse	Suz12 binds to silenced regions of the genome in a cell-type-specific manner	Squazzo SL, <i>et al.</i>	<i>Genome Res.</i> 2006 Jun;16:890-900.
human, mouse	Enhancers Located within Two Introns of the Vitamin D Receptor Gene Mediate Transcriptional Autoregulation by 1,25-Dihydroxyvitamin D3	Zella LA, <i>et al.</i>	<i>Mol. Endocrinol.</i> 2006 Jun;20(6):1231-47.
human	Genome-wide mapping of Polycomb target genes unravels their roles in cell fate transitions	Bracken AP, <i>et al.</i>	<i>Genes Dev.</i> 2006 May 1;20(9):1123-36. Epub 2006 Apr 17.
human	T-bet binding to newly identified target gene promoters is cell-type independent, but results in variable context-dependent functional effects	Beima KM, <i>et al.</i>	<i>J Biol Chem.</i> 2006 April 28, Vol. 281, Issue 17, 11992-12000.
human	Unbiased location analysis of E2F1-binding sites suggests a widespread role for E2F1 in the human genome	Bieda M, <i>et al.</i>	<i>Genome Res.</i> 2006 May;16:595-605.
human	Genome-Wide Analysis of Menin Binding Provides Insights to MEN1 Tumorigenesis	Scacheri PC, <i>et al.</i>	<i>PLoS Genet.</i> 2006 Apr 7;2(4):e51.
fly	<i>Drosophila</i> Chromosome-wide gene-specific targeting of the dosage compensation complex	Gilfillan GD, <i>et al.</i>	<i>Genes Dev.</i> 2006 Apr 1;20(7):858-70.
fly	High-resolution ChIP-chip analysis reveals that the <i>Drosophila</i> MSL complex selectively identifies active genes on the male X chromosome	Alekseyenko AA, <i>et al.</i>	<i>Genes Dev.</i> 2006 Apr 1;20(7):848-57.
<i>Arabidopsis</i>	Genome-scale profiling of histone H3.3 replacement patterns	Mito Y, <i>et al.</i>	<i>Nat Genet.</i> 2005 Oct;37(10):1090-7.
<i>E. coli</i>	Immobilization of <i>Escherichia coli</i> RNA Polymerase and Location of Binding Sites by Use of Chromatin Immunoprecipitation and Microarrays	Herring CD, <i>et al.</i>	<i>J Bacteriol.</i> 2005 Sep;187(17): 6166-74.
human	A high-resolution map of active promoters in the human genome	Kim TH, <i>et al.</i>	<i>Nature.</i> 2005 Aug 11;436(7052): 876-80.
human	Silencing of human polycomb target genes is associated with methylation of histone H3 Lys 27	Kirmizis A, <i>et al.</i>	<i>Genes Dev.</i> 2004 Jul 1;18(13):1592-605.
Comparative Genomic Hybridization (CGH)			
human	The Diploid Genome Sequence of an Individual Human	Levy S, <i>et al.</i>	<i>PLoS Biol.</i> 2007 Sep 4;5(10) [Epub ahead of print].
human	Discovery of a previously unrecognized microdeletion syndrome of 16p11.2-p12.2	Baillif BC, <i>et al.</i>	<i>Nat Genet.</i> 2007 Sep;39(9):1071-3. Epub 2007 Aug 19.
human	Challenges and standards in integrating surveys of structural variation	Scherer SW, <i>et al.</i>	<i>Nat Genet.</i> 2007 39, S7 - S15.
human	Methods and strategies for analyzing copy number variation using DNA microarrays	Carter NP, <i>et al.</i>	<i>Nat Genet.</i> 2007 39, S16 - S21.
human	Systematic prediction and validation of breakpoints associated with copy-number variants in the human genome	Korbel JO, <i>et al.</i>	<i>PNAS.</i> 2007 Jun 5 [Epub ahead of print].
human	Recurrent 10q22-23 deletions: A Genomic disorder on 10q associated with cognitive and behavioral abnormalities	Balciuniene J, <i>et al.</i>	<i>Am J Hum Genet.</i> In Press.
human	Delineation of a 1Mb breakpoint region at 1p13 in Wilms tumors by fine-tiling oligonucleotide array CGH	Natrajan R, <i>et al.</i>	<i>Genes Chromosomes Cancer.</i> Epub 16 Mar 2007.
human	Characterization of a recurrent 15q24 microdeletion syndrome.	Sharp AJ, <i>et al.</i>	<i>Hum Mol Genet.</i> (2007) In press.
<i>E. coli</i>	Defining Genomic Islands and Uropathogen-Specific Genes in Uropathogenic <i>Escherichia coli</i>	Lloyd AL, <i>et al.</i>	<i>J Bacteriol.</i> 2007 Mar 9 [Epub ahead of print].
<i>Rhesus rhadinovirus</i>	Construction of an infectious rhesus rhadinovirus bacterial artificial chromosome for the analysis of Kaposi's sarcoma-associated herpesvirus-related disease development	Estep RD, <i>et al.</i>	<i>J Virol.</i> 2007 Mar;81(6):2957-69. Epub 2007 Jan 10.

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Comparative Genomic Hybridization (CGH) (cont.)			
human	Genome-wide Copy Number Profiling on High-density Bacterial Artificial Chromosomes, Single-nucleotide Polymorphisms, and Oligonucleotide Microarrays: A Platform Comparison based on Statistical Power Analysis	Hehir-Kwa JY, <i>et al.</i>	<i>DNA Res.</i> 2007 Feb 28;14(1):1-11. Epub 2007 Mar 15.
<i>C. elegans</i>	Efficient high-resolution deletion discovery in <i>Caenorhabditis elegans</i> by array comparative genomic hybridization	Maydan S, <i>et al.</i>	<i>Genome Res.</i> 2007 Jan 31 [Epub ahead of print].
mouse	A high resolution map of segmental DNA copy number variation in the mouse genome	Graubert T, <i>et al.</i>	<i>PLoS Genet.</i> 2007 Jan 5;3(1):e3 [Epub ahead of print].
human	Palladin mutation causes familial pancreatic cancer and suggest a new cancer mechanism	Pogue-Geile KL, <i>et al.</i>	<i>PLoS Med.</i> 2006;3(12):e516.
human	A comprehensive analysis of common copy-number variations in the human genome	Wong, <i>et al.</i>	<i>Am J Hum Genet.</i> 2007;80:91-104.
human	Cytogenetic instability in ovarian epithelial cells from women at risk of ovarian cancer	Pejovic, <i>et al.</i>	<i>Cancer Research.</i> 2006;66:9017-9025.
human	Ultra-high resolution array painting facilitates breakpoint sequencing	Gribble SM, <i>et al.</i>	<i>J Med Genet.</i> 2006 Sep 13 [Epub ahead of print].
human	Deletion at 14q22-23 indicates a contiguous gene syndrome comprising anophthalmia, pituitary hypoplasia, and ear anomalies	Nolen LD, <i>et al.</i>	<i>Am J Med Genet A.</i> 2006 Aug 15;140(16):1711-8.
human	Discovery of previously unidentified genomic disorders from the duplication architecture of the human genome.	Sharp AJ, <i>et al.</i>	<i>Nat Genet.</i> 2006 Sep;38(9):1038-42.
human	Linkage Disequilibrium and Heritability of CNPs within Duplicated Regions of the Human Genome	Locke DP, <i>et al.</i>	<i>Am J Med Genet.</i> 2006 Aug;79(2):275-90.
human	Microdissection-based high-resolution genomic array analysis of two patients with cytogenetically identical interstitial deletions of chromosome 1q but distinct clinical phenotypes	Rice GM, <i>et al.</i>	<i>Am J Med Genet A.</i> 2006 Aug 1;140(15):1637-43.
mouse	Comparative Oncogenomics Identifies NEDD9 as a Melanoma Metastasis Gene	Kim M, <i>et al.</i>	<i>Cell.</i> 2006 Jun 30;125(7):1269-81.
Review Article	Copy number variation: New insights in genome diversity	Freeman JL, <i>et al.</i>	<i>Genome Res.</i> 2006 June 29;16(8):949-61.
human	High-resolution analysis of chromosomal breakpoints and genomic instability identifies PTPRD as a candidate tumor suppressor gene in neuroblastoma	Stallings RL, <i>et al.</i>	<i>Cancer Res.</i> 2006 Apr 1;66(7): 3673-80.
human	Complex genomic alterations and gene expression in acute lymphoblastic leukemia with intrachromosomal amplification of chromosome 21	Strefford JC, <i>et al.</i>	<i>Proc Natl Acad Sci USA.</i> 2006 May 23;103(21):8167-72.
human	High-resolution mapping of DNA copy alterations in human chromosome 22 using high-density tiling oligonucleotide arrays	Urban AE, <i>et al.</i>	<i>Proc Natl Acad Sci USA.</i> 2006 Mar 21;103(12):4534-9.
Review Article	Structural variation in the human genome	Feuk L, <i>et al.</i>	<i>Nat Rev Genet.</i> 2006 Feb;7(2):85-97.
human	A High-Resolution Survey of Deletion Polymorphism in the Human Genome	Conrad DF, <i>et al.</i>	<i>Nat Genet.</i> 2006 Jan;38(1):75-81.
human	Analysis of chromosome breakpoints in neuroblastoma at sub-kilobase resolution using fine-tiling oligonucleotide array CGH	Selzer RR, <i>et al.</i>	<i>Genes Chromosomes Cancer.</i> 2005 Nov;44(3):305-19.
Comparative Genome Sequencing (CGS)			
<i>E. coli</i>	Differential stability and trade-off effects of pathoadaptive mutations in the <i>Escherichia coli</i> FimH adhesin	Weissman SJ, <i>et al.</i>	<i>Infect Immun.</i> 2007 Jul;75(7):3548-55. Epub 2007 May 14.
<i>Ehrlichia chaffeensis</i>	Virulence potential of <i>Ehrlichia chaffeensis</i> strains of distinct genome sequences	Miura K, <i>et al.</i>	<i>Infect Immun.</i> 2007 Jul;75(7):3604-13. Epub 2007 Apr 16.
<i>C. elegans</i>	Efficient target-selected mutagenesis in <i>Caenorhabditis elegans</i> : Toward a knockout for every gene	Cuppen E, <i>et al.</i>	<i>Genome Res.</i> 2007 May;17(5):649-58. Epub 2007 Apr 6.
<i>Streptomyces coelicolor</i>	Mutations in rsmG, Encoding a 16S rRNA Methyltransferase, Result in Low-level Streptomycin Resistance and Antibiotic Overproduction in <i>Streptomyces coelicolor</i> A3(2)	Nishimura K, <i>et al.</i>	<i>J. Bacteriol.</i> 2007 May;189(10):3876-83. Epub 2007 Mar 23.

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Comparative Genome Sequencing (CGS) (cont.)			
<i>Methylobium petroleiphilum</i> PM1	Whole-Genome Analysis of the Methyl tert-Butyl Ether-Degrading Beta-Proteobacterium <i>Methylobium petroleiphilum</i> PM1	Kane SR, <i>et al.</i>	<i>J. Bacteriol.</i> 2007 Mar;189(5):1931-45. Epub 2006 Dec 8.
<i>Mycobacterium tuberculosis</i>	Loss of a conserved 7-methylguanosine modification in 16S rRNA confers low-level streptomycin resistance in bacteria	Okamoto S, <i>et al.</i>	<i>Mol Microbiol.</i> 2007 Feb;63(4):1096-106.
<i>E. coli</i>	Comparative genome sequencing of <i>Escherichia coli</i> allows observation of bacterial evolution on a laboratory timescale	Herring CD, <i>et al.</i>	<i>Nat Genet.</i> 2006 Nov 5;38:1406-12.
<i>Staphylococcus aureus</i>	Genetic changes that correlate with reduced susceptibility to daptomycin in <i>Staphylococcus aureus</i>	Friedman L, <i>et al.</i>	<i>Antimicrob Agents Chemother.</i> 2006 Jun;50(6):2137-45.
<i>E. coli</i>	Probing genomic diversity and evolution of <i>Escherichia coli</i> O157 by single-nucleotide polymorphisms	Zhang W, <i>et al.</i>	<i>Genome Res.</i> 2006;16:757-67. Epub 2006 Apr 10.
Group A <i>Streptococci</i>	Molecular genetic anatomy of inter- and intraserotype variation in the human bacterial pathogen group A <i>Streptococcus</i>	Beres SB, <i>et al.</i>	<i>Proc Natl Acad Sci USA.</i> 2006 May 2;103(18):1059-64.
Group A <i>Streptococci</i>	Genome-Wide Analysis of Group A <i>Streptococci</i> Reveals a Mutation That Modulates Global Phenotype and Disease Specificity	Summy P, <i>et al.</i>	<i>PLoS Pathog.</i> 2006 Jan;2(1):e5.
<i>Mycobacterium tuberculosis</i>	Identification of a nitroimidazo-oxazine-specific protein involved in PA-824 resistance in <i>Mycobacterium tuberculosis</i>	Manjunatha UH, <i>et al.</i>	<i>Proc Natl Acad Sci USA.</i> 2006 Jan 10;103(2): 431-6.
<i>Helicobacter pylori</i>	Mutation Discovery in Bacterial Genomes: Metronidazole Resistance in <i>Helicobacter pylori</i>	Albert TJ, <i>et al.</i>	<i>Nat Methods.</i> 2005 Dec;2:951-3.
SARS coronavirus	Tracking the evolution of the SARS coronavirus using high-throughput, high-density resequencing arrays	Wong CW, <i>et al.</i>	<i>Genome Res.</i> 2004;14:398-405.
DNA Methylation			
human	Homeobox gene methylation in lung cancer studied by genome-wide analysis with a microarray-based methylated CpG island recovery assay	Weber M, <i>et al.</i>	<i>PNAS.</i> 2007 Mar 27;104(13):5527-32. Epub 2007 Mar 16.
human	Distribution, silencing potential and evolutionary impact of promoter DNA methylation in the human genome.	Weber M, <i>et al.</i>	<i>Nat. Genet.</i> 2007 Apr;39(4):457-66. Epub 2007 Mar 4.
<i>Arabidopsis</i>	Genome-wide analysis of <i>Arabidopsis thaliana</i> DNA methylation uncovers an interdependence between methylation and transcription	Zilberman D, <i>et al.</i>	<i>Nat Genet.</i> 2007;39, 61 - 69 (2006). Epub 2006 Nov 26.
human	Comprehensive DNA methylation profiling in a human cancer genome identifies novel epigenetic targets.	Ordway JM, <i>et al.</i>	<i>Carcinogenesis.</i> 2006 Dec;27(12):2409-23. Epub 2006 Sep 4.
human	Comparative isoschizomer profiling of cytosine methylation: The HELP assay	Khulan B, <i>et al.</i>	<i>Genome Res.</i> 2006 Aug;16(8):1046-55. Epub 2006 Jun 29.
Gene Expression			
<i>Fusarium verticillioides</i>	The <i>Fusarium verticillioides</i> FUM Gene Cluster Encodes a Zn(II)2Cys6 Protein That Affects FUM Gene Expression and Fumonisin Production	Brown DW, <i>et al.</i>	<i>Eukaryot Cell.</i> 2007 Jul;6(7):1210-8. Epub 2007 May 4.
human	Functional demarcation of active and silent chromatin domains in human HOX loci by noncoding RNAs	Rinn JL, <i>et al.</i>	<i>Cell.</i> 2007 Jun 29;129(7):1311-23.
<i>Bacillus subtilis</i>	Plant cell wall degradation by saprophytic <i>Bacillus subtilis</i> strains: gene clusters responsible for rhamnogalacturonan depolymerization	Ochiai A, <i>et al.</i>	<i>Appl Environ Microbiol.</i> 2007 Jun;73(12):3803-13. Epub 2007 Apr 20.
mouse	Identification of Positional Candidate Genes for Body Weight and Adiposity in Subcongenic Mice	Chiu S, <i>et al.</i>	<i>Physiol Genomics.</i> 2007 May 29 [Epub ahead of print].
poplar	Transcript profiling of poplar leaves upon infection with compatible and incompatible strains of the foliar rust <i>Melampsora larici-populina</i>	Rinaldi C, <i>et al.</i>	<i>Plant Physiol.</i> 2007 May;144(1):347-66. Epub 2007 Mar 30.
<i>Lactococcus lactis</i>	Carbohydrate starvation causes a metabolically active but nonculturable state in <i>Lactococcus lactis</i>	Ganesan B, <i>et al.</i>	<i>Appl Environ Microbiol.</i> 2007 Apr;73(8):2498-512. Epub 2007 Feb 9.
<i>Lactobacillus helveticus</i>	Comparative high-density microarray analysis of gene expression during growth of <i>Lactobacillus helveticus</i> in milk versus rich culture medium	Smeianov VV, <i>et al.</i>	<i>Appl Environ Microbiol.</i> 2007 Apr;73(8): 2661-72.
human	Potential targets of FOXL2, a transcription factor involved in craniofacial and follicular development, identified by transcriptomics	Batista F, <i>et al.</i>	<i>Appl Environ Microbiol.</i> 2007 Apr;73(8):2498-512. Epub 2007 Feb 9.

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Gene Expression (cont.)			
mouse, <i>E. coli</i>	<i>In vivo</i> gene expression analysis identifies genes required for enhanced colonization of the mouse urinary tract by uropathogenic <i>Escherichia coli</i> strain CFT073 dsdA	Haugen BJ, <i>et al.</i>	<i>Infect Immun.</i> 2007 Jan;75(1):278-89. Epub 2006 Oct 30.
honeybee	Insights into social insects from the genome of the honeybee <i>Apis mellifera</i>	The Honeybee Genome Sequencing Consortium	<i>Nature.</i> 2006 Oct 26, 443: 931-949.
bovine	Identification of estrogen-responsive genes in the parenchyma and fat pad of the bovine mammary gland by microarray analysis	Li RW, <i>et al.</i>	<i>Physiol. Genomics.</i> 2006 Oct 3;27(1):42-53.
<i>Populus trichocarpa</i>	The genome of black cottonwood, <i>Populus trichocarpa</i> (Torr. & Gray)	Tuskan GA, <i>et al.</i>	<i>Science.</i> 2006 Sep 15;313(5793): 1596-604.
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cotton	A Novel Approach for Characterizing Expression Levels of Genes Duplicated by Polyploidy	Udall JA, <i>et al.</i>	<i>Genetics.</i> 2006 July;173:1-5.
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rice	Genome-wide transcription analyses in rice using tiling microarrays	Li L, <i>et al.</i>	<i>Nat Genet.</i> 2006 Jan;38(1):124-9.
rice	A pilot study of transcription unit analysis in rice using oligonucleotide tiling-path microarray	Stolc V, <i>et al.</i>	<i>Plant Mol Biol.</i> 2005 Sep;59(1):137-49.
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<i>Arabidopsis</i>	Identification of transcribed sequences in <i>Arabidopsis thaliana</i> by using high-resolution genome tiling arrays	Stolc V, <i>et al.</i>	<i>Proc Natl Acad Sci USA.</i> 2005 Mar 22;102(12):4453-8. Epub 2005 Mar 8.
<i>Chlamydomonas reinhardtii</i>	Genome-wide transcriptional analysis of flagellar regeneration on <i>Chlamydomonas reinhardtii</i> identifies orthologs of ciliary disease genes	Stolc V, <i>et al.</i>	<i>Proc Natl Acad Sci USA.</i> 2005 Mar 8;102(10):3703-7. Epub 2005 Feb 28.
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<i>Streptococcus pneumoniae</i>	Regulation of Iron Transport in <i>Streptococcus pneumoniae</i> by RitR, an Orphan Response Regulator	Ulijasz AT, <i>et al.</i>	<i>J Bacteriol.</i> 2004 Dec;186(23): 8123-36.
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fly, mouse	Gene expression analysis using oligonucleotide arrays produced by maskless photolithography	Nuwaysir EF, <i>et al.</i>	<i>Genome Res.</i> 2002 Nov;12(11):1749-55.
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Binding Sequence Characterization			
human, fly	Defining the sequence-recognition profile of DNA-binding molecules	Warren CL, <i>et al.</i>	<i>Proc Natl Acad Sci USA.</i> 2006 Jan 24;103(4):867-72. Epub 2006 Jan 17.
Transposon Mapping			
<i>E. coli</i>	Phenotypic Screening of <i>Escherichia coli</i> K-12 Tn5 Insertion Libraries, Using Whole-Genome Oligonucleotide Microarrays	Winterberg KM, <i>et al.</i>	<i>Appl Environ Microbiol.</i> 2005 Jan;71(1):451-9.

Organism	Article Title	Authors	Journal Reference
ROMA			
human	Strong Association of <i>De Novo</i> Copy Number Mutations with Autism	Sebat J, <i>et al.</i>	<i>Science</i> . 2007 Apr 20;316(5823):445-9. Epub 2007 Mar 15.
human	Novel patterns of genome rearrangement and their association with survival in breast cancer	Hicks J, <i>et al.</i>	<i>Genome Res</i> . 2006 Dec;16(12):1465-79.
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human	Large-Scale Copy Number Polymorphism in the Human Genome	Sebat J, <i>et al.</i>	<i>Science</i> . 2004 Jul 23;305(5683): 525-8.
human	Representational Oligonucleotide Microarray Analysis: A High-Resolution Method to Detect Genome Copy Number Variation	Lucito R, <i>et al.</i>	<i>Genome Res</i> . 2003 Oct;13(10): 2291-305.
MAS Technology			
	Recent Highlights on Photolytic Oligonucleotide Array <i>in situ</i> Synthesis	Stengele KP, <i>et al.</i>	<i>Nucleosides Nucleotides Nucleic Acids</i> . 2005;24(5-7):891-6.
	New Types of Very Efficient Photolabile Protecting Groups Based upon the [2-(2-Nitrophenyl)propoxy]carbonyl (NPPOC) Moiety	Bühler S, <i>et al.</i>	<i>Helvetica Chimica Acta</i> . 2004;87:620-635.
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Bioinformatics			
	Statistically designing microarrays and microarray experiments to enhance sensitivity and specificity	Hsu JC, <i>et al.</i>	<i>Brief Bioinform</i> . 2007 Jan;8(1):22-31. Epub 2006 Aug 9.
	Evaluating machine learning approaches for aiding probe selection for gene-expression arrays	Tobler JB, <i>et al.</i>	<i>Bioinformatics</i> . 2002;18 Suppl 1:S164-71.