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Genome analysis: contract DNA sequencing and bioinformatics analysis of genome and EST projects. Includes functional annotation for ORFs and metabolic reconstruction of entire genomes. The biopinformatics software package WIT Pro with a database of 250 annotated genomes (public and sequenced in house). Metabolic modeling for industrial applications such as targets for new anitibiotics and strain improvement. Functional microbial genomics: gene knockouts, microarray-based expression analysis, targets for novel antiinfectives

Recent Publications by Integrated Genomics Incorporated:



- [The genome sequence of the fish pathogen *Renibacterium salmoninarum* suggests reductive evolution away from an environmental *Arthrobacter* ancestor.](#)
Renibacterium salmoninarum (*Rs*) is the causative agent of bacterial kidney...30th August, 2008
USDA-ARS-National Center for Cool and Coldwater Aquaculture,- J Bacteriol. 2008 Aug 22. ([DOI Direct Link](#))
- [Segmental Trisomy of Mouse Chromosome 17: Introducing an Alternative Model of Down's Syndrome.](#)
*All of the mouse models of human trisomy 21 syndrome that have been...*17th July, 2008
Institute of Molecular Genetic Academy of Sciences of the Czech Republic- Comp Funct Genomics. 2003;4(6):647-52. ([DOI Direct Link](#))
- [A new mutation within the porphobilinogen deaminase gene leading to a truncated protein as a cause of acute intermittent porphyria in an extended Indian family.](#)
*Based on Internet search, we were contacted by a 50-year-old man suffering...*17th January, 2008
Department of Pediatrics and Center for Integrated Genomics, Charles- Folia Biol (Praha). 2007;53(6):194-201.
- [Multimerization of the p12 domain is necessary for Mason-Pfizer monkey virus Gag assembly in vitro.](#)

- Mason-Pfizer monkey virus (M-PMV) Gag protein contains a domain p12 that...* 28th September, 2007
Department of Biochemistry and Microbiology and Center for Integrated- Virology. 2007 Sep 1;365(2):260-70. Epub 2007 May 9. ([DOI Direct Link](#))
- [Moving to a higher level of abstraction.](#)
Mason-Pfizer monkey virus (M-PMV) Gag protein contains a domain p12 that... 3rd July, 2007
Integrated Genomics, Inc., Chicago, IL, USA.- Environ Microbiol. 2007 Jan;9(1):7-8. ([DOI Direct Link](#))
 - [p38 mitogen-activated protein kinase plays an inhibitory role in hepatic lipogenesis.](#)
Hepatic lipogenesis is the principal route to convert excess carbohydrates... 27th March, 2007
Endocrine Biology Program, Center for Integrated Genomics, The Hamner- J Biol Chem. 2007 Feb 16;282(7):4975-82. Epub 2006 Dec 17. ([DOI Direct Link](#))
 - [Growth of Escherichia coli MG1655 on LB medium: determining metabolic strategy with transcriptional microarrays.](#)
Expression profiles of genes related to stress responses, substrate... 29th September, 2006
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 - [Growth of Escherichia coli MG1655 on LB medium: monitoring utilization of sugars, alcohols, and organic acids with transcriptional microarrays.](#)
Microorganisms respond to environmental changes by reprogramming their... 29th September, 2006
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 - [Growth of Escherichia coli MG1655 on LB medium: monitoring utilization of amino acids, peptides, and nucleotides with transcriptional microarrays.](#)
Analysis of gene expression data related to assimilation and biosynthesis... 29th September, 2006
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 - [Global transcriptome analysis of the C57BL/6J mouse testis by SAGE: evidence for nonrandom gene order.](#)
BACKGROUND: We generated the gene expression profile of the total testis... 2nd May, 2006
Institute of Molecular Genetics, Academy of Sciences of the Czech Republic- BMC Genomics. 2005 Mar 5;6(1):29. ([DOI Direct Link](#))
 - [Comparative genome analysis of Bacillus cereus group genomes with Bacillus subtilis.](#)
Genome features of the Bacillus cereus group genomes (representative... 13th January, 2006
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 - [Development of cytochrome-c oxidase activity in rat heart: downregulation in newborn rats.](#)
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The genome of Rhodobacter capsulatus has been completely sequenced. It... 18th October, 2005
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 - [Omega-3 PUFA of marine origin limit diet-induced obesity in mice by reducing cellularity of adipose tissue.](#)
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