

Genomics

[View the current Genomics InDepth page on BioPortfolio.com](#) (PDF)

(<http://www.bioportfolio.com/indepth/Genomics.html>) - Regularly Updated.

Genomics is the study of an organism's entire genome. The field includes intensive efforts to determine the entire DNA sequence of organisms and fine-scale genetic mapping efforts. The field also includes studies of intragenomic phenomena such as heterosis, epistasis, pleiotropy and other interactions between loci and alleles within the genome. In contrast, the investigation of single genes, their functions and roles, something very common in today's medical and biological research, and a primary focus of molecular biology, does not fall into the definition of genomics, unless the aim of this genetic, pathway, and functional information analysis is to elucidate its effect on, place in, and response to the entire genome's networks. ([From the Wikipedia article Genomics](#) .)



Recent Publications on Genomics:

- [Definitive molecular cytogenetic characterization of 15 colorectal cancer cell lines.](#)
*In defining the genetic profiles in cancer, cytogenetically aberrant cell...*21st November, 2009
Section of Cancer Genomics, Genetics Branch, Center for Cancer Research,- Genes Chromosomes Cancer. 2009 Nov 19. ([DOI Direct Link](#))
- [Is Asp-His-Ser/Thr-Trp tetrad hydrogen-bond network important to WD40-repeat proteins: A statistical and theoretical study.](#)
*WD40-repeat proteins are abundant and play important roles in forming...*21st November, 2009
Laboratory of Chemical Genomics, Shenzhen Graduate School of Peking- Proteins. 2009 Oct 16. ([DOI Direct Link](#))
- [Single-molecule genomics.](#)
*The term 'single-molecule genomics' (SMG) describes a group of molecular...*21st November, 2009
MRC Laboratory of Molecular Biology, Hills Road, Cambridge CB2 2QH, UK.- J Pathol. 2009 Nov 19. ([DOI Direct Link](#))
- [An introduction to liquid chromatography-mass spectrometry instrumentation applied in plant metabolomic analyses.](#)
*Over the past decade the application of non-targeted high-throughput...*21st November, 2009
School of Chemistry, Manchester Interdisciplinary Biocentre, University of- Phytochem Anal. 2009 Nov 19. ([DOI Direct Link](#))
- [Genetic resources for maize cell wall biology.](#)
*Grass species represent a major source of food, feed, and fiber crops and...*21st November, 2009
Department of Botany & Plant Pathology, Purdue University, West Lafayette,- Plant Physiol. 2009 Nov 19. ([DOI Direct Link](#))
- [Courtship learning in *Drosophila melanogaster*: Diverse plasticity of a reproductive behavior.](#)
*Mechanisms for identifying appropriate mating partners are critical for...*21st November, 2009
Department of Biology, National Center for Behavioral Genomics and Volen- Learn Mem. 2009 Nov

- 19;16(12):743-750. Print 2009. ([DOI Direct Link](#))
- [Genotype at the sIL-6R A358C polymorphism does not influence response to anti-TNF therapy in patients with rheumatoid arthritis.](#)
Objectives. To investigate the association between genotype at the soluble... 21st November, 2009
 Academic Rheumatology Group, University of Sheffield, Sheffield, ARC- Rheumatology (Oxford). 2009 Nov 19. ([DOI Direct Link](#))
 - [Commentary: The background and outcomes of the first-cousin marriage controversy in Great Britain.](#)
Objectives. To investigate the association between genotype at the soluble... 21st November, 2009
 Centre for Comparative Genomics, Murdoch University, Perth, Australia.- Int J Epidemiol. 2009 Nov 19. ([DOI Direct Link](#))
 - [Integrative genomics identifies DSCR1 \(RCAN1\) as a novel NFAT-dependent mediator of phenotypic modulation in vascular smooth muscle cells.](#)
Vascular smooth muscle cells (SMC) display remarkable phenotypic... 21st November, 2009
 Dept. of Medicine, Cardiovascular Division, Univ. of Virginia,- Hum Mol Genet. 2009 Nov 19. ([DOI Direct Link](#))
 - [SH2 domains: modulators of nonreceptor tyrosine kinase activity.](#)
The Src homology 2 (SH2) domain is a sequence-specific... 21st November, 2009
 Structural Genomics Consortium, University of Oxford, Old Road Campus- Curr Opin Struct Biol. 2009 Nov 17. ([DOI Direct Link](#))
 - [Correlation between lymph node pathology and chemokine expression during bovine tuberculosis.](#)
Bovine tuberculosis is a disease of worldwide importance yet comparatively... 21st November, 2009
 Bovine Genomics Group, Institute for Animal Health, Compton, Berkshire,- Tuberculosis (Edinb). 2009 Nov;89(6):417-422. ([DOI Direct Link](#))
 - [Genetic Mapping of Pharmacogenetic Regulatory Variation.](#)
The availability of high-throughput genotyping and sequencing platforms... 21st November, 2009
 Channing Laboratory, Division of Pulmonary and Critical Care Medicine,- Curr Pharm Des. 2009;15(32):3773-3781.
 - [Method for the Affinity Purification of Covalently Linked Peptides Following Cyanogen Bromide Cleavage of Proteins.](#)
The low resolution structure of a protein can sometimes be inferred from... 21st November, 2009
 Centre for Research in Neurodegenerative Diseases, University of Toronto,- Anal Chem. 2009 Nov 19. ([DOI Direct Link](#))
 - [Designed Recombinant Transcription Factor with Antibody-Variable Regions.](#)
Many recombinant transcription factors have been invented, but we cannot... 21st November, 2009
 Research Center for Environmental Genomics, and Graduate School of- Anal Chem. 2009 Nov 19. ([DOI Direct Link](#))
 - [Cis-regulatory mechanisms of gene expression in an olfactory neuron type in caenorhabditis elegans.](#)
The generation of cellular diversity is dependent on the precise... 20th November, 2009
 Department of Biology and National Center for Behavioral Genomics,- Dev Dyn. 2009 Nov 18;238(12):3080-3092. ([DOI Direct Link](#))

BioNews Results for Genomics

- [Maize genome decoded](#)
Western Farm Press: Nov 20 2009 8:49PM Matching: genomics
- [Navigenics, 23andMe Respond To DTC Genetics Opinion Paper](#)
GenomeWeb: Nov 20 2009 7:50AM Matching: genomics
- [eSeminar: Automating Genomics Applications on Bravo Workstations](#)
Laboratory Equipment: Nov 20 2009 9:23PM Matching: genomics
- [Adding one single gene to yeast dramatically improves bioethanol production from agricultural waste](#)

- [Science Daily: Nov 20 2009 4:06PM Matching: genomics](#)
- [Delft breakthrough in bioethanol production from agricultural waste](#)
Genetic Engineering News: Nov 20 2009 3:11PM Matching: genomics
- [Delft breakthrough in bioethanol production from agricultural waste](#)
Research & Development: Nov 20 2009 2:50PM Matching: genomics
- [After Re-Engineering Itself, Verdezyne Sets Course to Develop Biofuels and Green Industrial Chemicals](#)
Xconomy: Nov 20 2009 2:34PM Matching: genomics
- [After Re-Engineering Itself, Verdezyne Sets Course to Develop Biofuels and Green Industrial Chemicals](#)
Xconomy: Nov 20 2009 2:11PM Matching: genomics
- [TGen Drug Development and IPC collaborate to speed up research discoveries for cancer patients](#)
News-Medical.Net: Nov 20 2009 6:46AM Matching: genomics
- [Nutrigenomics researchers replicate gene interaction with saturated fat](#)
Science Centric: Nov 20 2009 5:29AM Matching: genomics
- [X Prize for Genomics now features Asian-based competitor](#)
Bio Techniques: Nov 20 2009 12:34AM Matching: genomics
- [Sweet corn story begins in genomicist's lab](#)
Science Daily: Nov 19 2009 11:56PM Matching: genomics
- [Scientists at UA, collaborating institutions decode maize genome](#)
EurekAlert!: Nov 19 2009 9:38PM Matching: genomics
- [Scientists decode maize genome](#)
Science Daily: Nov 19 2009 8:31PM Matching: genomics
- [Scientists closer to finding cause of IBD with new analyses](#)
Drug Store News: Nov 19 2009 1:33AM Matching: genomics

Genomics Patents:



- 7615229- [Mutants of the P4 protein of nontypable Haemophilus influenzae with reduced enzymatic activity](#)
- 7615676- [Transgenic screen and method for screening modulators of brain-derived neurotrophic factor \(BDNF\) production](#)
- 7615689- [Methods for coupling resistance alleles in tomato](#)
- 7615780- [DNA biosensor and methods for making and using the same](#)
- 7616017- [Probe station thermal chuck with shielding for capacitive current](#)
- 7617185- [Methods and systems for providing a visualization graph](#)
- 7618632- [Method of treating or ameliorating an immune cell associated pathology using GITR ligand antibodies](#)
- 7618770- [Methods and apparatus for reducing protein content in sperm cell extenders](#)
- 7618774- [Materials and methods for identifying genes and/or agents that alter replicative lifespan](#)
- 7618775- [Expanding the eukaryotic genetic code](#)
- 7618776- [Rolling circle replication reporter systems](#)
- 7615625- [In vitro amplification of nucleic acid molecules via circular replicons](#)
- 7615624- [Arabidopsis derived promoters for regulation of plant expression](#)

- 7615623- [BAG proteins and nucleic acid molecules encoding them](#)
- 7615341- [Disease susceptibility gene for rheumatoid arthritis, protein thereof, evaluation method and evaluation kit for evaluating onset possibility of rheumatoid arthritis by using those, and remedy and curing medicine for rheumatoid arthritis](#)
- 7615342- [ACTN3 genotype screen for athletic performance](#)
- 7615349- [Melanoma gene signature](#)
- 7615353- [Tivozanib response prediction](#)
- 7615354- [Electrophoretic separation of compounds](#)
- 7615368- [Microarrays of polypeptides](#)
- 7615379- [Nucleic acid and corresponding protein entitled 193P1E1B useful in treatment and detection of cancer](#)
- 7615380- [Methods for modulating an immune response by modulating KRC activity](#)
- 7615541- [siRNA targeting TIE-2](#)
- 7615558- [6-arylmethylprazol\[3,4-d\]pyrimidines](#)
- 7618777- [Composition and method for array hybridization](#)
- 7618778- [Producing, cataloging and classifying sequence tags](#)
- 7619065- [Cystine-knot fold protein](#)
- 7619068- [Ovr110 antibody compositions and methods of use](#)
- 7619077- [Nucleic acids encoding a galacturonosyl transferase enzyme \(GALAT1\) from arabidopsis](#)
- 7619079- [Db, the receptor for leptin, nucleic acids encoding the receptor, and uses thereof](#)
- 7619081- [siRNA targeting coatomer protein complex, subunit beta 2 \(COPB2\)](#)
- 7619133- [Polynucleotides and methods for making plants resistant to fungal pathogens](#)
- 7619144- [Cotton variety 02T15](#)
- 7619145- [Cotton variety 03Y056](#)
- 7619146- [Method for modifying plant morphology, biochemistry and physiology](#)
- 7619419- [Wideband active-passive differential signal probe](#)
- 7618940- [Fat regulation](#)
- 7618936- [Methods for treating and diagnosing cancer with WNT inhibitory Factor-1 \(WIF-1\)](#)
- 7618816- [Metal-binding therapeutic peptides](#)
- 7618779- [Chromosome 1p36 polymorphisms and low bone mineral density](#)
- 7618780- [Use of mass labelled probes to detect target nucleic acids using mass spectrometry](#)
- 7618781- [Nucleic acids for detecting B-cell malignancy](#)
- 7618788- [Proteome epitope tags and methods of use thereof in protein modification analysis](#)
- 7618790- [Method for NGF assay for in vitro diagnosis of breast cancer and therapeutic use](#)
- 7618791- [Methods of detecting cancer with antibodies to cytokine receptor ZCYTOR19](#)
- 7618793- [Identifying agents for decreasing cellular toxicity associated with huntingin polypeptide](#)
- 7618799- [Bacterial leader sequences for increased expression](#)
- 7618814- [Microrna-related nucleic acids and uses thereof](#)
- 7618815- [Viral vectors useful in soybean and methods of use](#)
- 7620502- [Methods for identifying sets of oligonucleotides for use in an in vitro recombination procedure](#)

Resources from the [NCBI](#) used in this document, [NCBI's standard disclaimer applies](#).

Nothing in this document should be used in place of personal medical advice from your own qualified medical practitioner. See BioPortfolio.com [User Agreement](#)

Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

All rights reserved. All other trademarks recognized.

BioPortfolio Limited is registered in England & Wales at Stafford House, 10 Prince of Wales Road,
Dorchester, Dorset, DT1 1PW, UK. No.3312883 VAT No. GB 744 6483 10

Copyright 1997-2009 - BioPortfolio Limited.

