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## BioTechCircle News®

**May, 2005**

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Quote of the month:

“The bioinformatics market is expected to grow at an average annual growth rate of 15.8% to reach nearly \$3 billion by 2010, reflecting bioinformatics’ explosive growth in cheminformatics and pharmacogenomics.”

<http://www.in-pharmatechnologist.com/news/news-ng.asp?id=60263-report-describes-bioinformatics>

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**In this articles section: links to 58 free Web articles in 10 major categories.**

The major categories are in alphabetical order and further subdivided to make it easy for you to locate news and developments in technology, the business and the markets in the life science areas of interest to you.

***Note: if the links don’t connect you directly, please copy and paste the entire URL into your web browser.***

Here are the major categories and the page where each category starts:

Agri-Biotech (1 article) – Page 2  
Biobusiness Management (1 article) – Page 2  
Drug Delivery (2 articles) – Page 2  
Industry (2 articles) – Page 3  
Organizations (1 articles) – Page 3  
Pharmaceuticals (1 article) – Page 3  
Platform Technologies (9 articles) – Page 4  
Research Advancements (32 articles) – Page 6  
Research Tools (7 articles) – Page 12  
Therapeutic Category (2 articles) – Page 14

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## AGRI-BIOTECH

### *Subcategory: Oncology*

#### **Jefferson Scientists Create Plant Factories Churning Out Antibodies Against Tumor Cells**

Thomas Jefferson

03-May-05

Scientists are using tobacco plants to produce monoclonal antibodies that can target and hunt down cancer cells. The plants promise to provide a cheaper, faster method of producing anticancer antibodies.

<http://www.jeffersonhospital.org/news/2005/article10684.html>

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## BIOBUSINESS MANAGEMENT

### *Subcategory: Government/ Approvals*

#### **FDA Ambitiously Encourages Innovation While Ensuring Safe**

Jill Wechsler

BioPharm International

01-May-05

FDA seeks genomic data from manufacturers and offers proposals for managing high-risk therapies.

<http://www.biopharm-mag.com/biopharm/article/articleDetail.jsp?id=162434>

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## DRUG DELIVERY

### *Subcategory: Miscellaneous*

#### **Tiny Bundles Seek and Destroy Breast Cancer Cells**

EurekAlert!

24-May-05

Researchers show that ceramide, a naturally occurring substance that prevents the growth of cells, can be administered through the blood stream to target and kill cancer cells.

[http://www.eurekalert.org/pub\\_releases/2005-05/ps-tbs052305.php](http://www.eurekalert.org/pub_releases/2005-05/ps-tbs052305.php)

### *Subcategory: Oral Solid*

#### **Recombinant DNA Technology May Enable Oral, Rather than Injectable, Delivery of Protein Drugs**

EurekAlert!

06-May-05

Protein-based drugs are large and bulky, which can prevent them from crossing the intestine and gaining access to the sites where they are needed. This technology may allow for oral administration of these

drugs.

[http://www.eurekaalert.org/pub\\_releases/2005-05/uosc-rdt050605.php](http://www.eurekaalert.org/pub_releases/2005-05/uosc-rdt050605.php)

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## INDUSTRY

### *Subcategory: Bioinformatics*

#### **Report Describes Bioinformatics Market as ‘Explosive’**

in-Pharma Technologist

26-May-05

The bioinformatics market is expected to grow at an average annual growth rate of 15.8% to reach nearly \$3 billion by 2010, reflecting bioinformatics’ explosive growth in cheminformatics and pharmacogenomics.

<http://www.in-pharmatechnologist.com/news/news-ng.asp?id=60263-report-describes->

### *Subcategory: Genotyping*

#### **Genetic Discrimination, a Growing Concern**

myDNA

26-May-05

Research indicates 40% of people who have already or presently are undergoing genetic testing are worried their results could be used to discriminate against them. Many are particularly worried about possible changes in their health insurance coverage.

[http://www.mydna.com/genes/genetics/resources/news/200505/news\\_20050526\\_study.html](http://www.mydna.com/genes/genetics/resources/news/200505/news_20050526_study.html)

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## ORGANIZATIONS

### *Subcategory: Misc. Drugs*

#### **Inflammation Is Not Just About Drugs, Part I**

Frank H. Eeckman

The Centient Biotech Investor

04-May-05

Drugs mediating inflammation are a multi-billion dollar market, with several blockbuster classes of drugs targeting the malady. It can be a problem and it often causes disease, it is also a key area for monitoring health status. Cites drugs and makers.

<http://centientinvestor.com/articles.php?a=read&aid=542>

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## PHARMACEUTICALS

### *Subcategory: Personalized Medicine*

#### **FDA Official Forecasts Effect of Genetics on Medicine**

Bio-IT World

18-May-05

Within the next five years, pharmacogenomics will take stronger hold in medicine, with genetics becoming more key to drug development and providers moving toward a more personalized approach to healthcare, said a US FDA official.

<http://www.bio-itworld.com/newsitems/2005/05/05-18-05-news-lesko>

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## PLATFORM TECHNOLOGIES

### *Subcategory: Cell Therapy*

#### **Scientists Create DNA-Specific Stem Cells**

Sci-Tech Today

19-May-05

Scientists have developed the first lines of patient-specific stem cells, designed to match the DNA of a specific person. This may lead to transplanting healthy cells into humans to replace cells ravaged by illnesses such as Parkinson's and diabetes.

[http://www.sci-tech-today.com/story.xhtml?story\\_id=35270](http://www.sci-tech-today.com/story.xhtml?story_id=35270)

### *Subcategory: Drug Discovery*

#### **Researchers Develop Promising New Gene Network Analysis Method**

Bio.com

09-May-05

A correlation-based statistical method is a more reliable way than the linear model to map complex gene interactions and pinpoint genes that may be potential cancer treatment targets.

<http://www.bio.com/realm/research.jhtml?realmId=3&cid=10300004>

### *Subcategory: Genomics*

#### **Harmful Chemicals May Reprogram Gene Response To Estrogen**

Bio.com

31-May-05

Genetic reprogramming during critical developmental periods early in life may determine whether people with a genetic predisposition for a disease actually develop the disease.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=10600029>

### *Subcategory: Lab-on-a-chip/ DNA Chips/*

#### **Microarray Data Comparability: An Array of Opportunity?**

Andrew I. Brooks

Pharmaceutical Discovery

01-May-05

Looks at the question: Are new problems being generated with the advent of more specific and more sensitive arrays from new and existing commercial entities?

<http://www.pharmagenomicsonline.com/pharmagenomics/article/articleDetail.jsp?id=161554>

### *Subcategory: Miscellaneous*

#### **Robo-docs Boost London Hospitals**

BBC News

18-May-05

A "Sister Mary" robot glides between beds and allows the controlling doctor to visually examine and communicate with a patient from anywhere in the world. Robots have also carried out live kidney transplant surgery.

<http://news.bbc.co.uk/1/hi/health/4555555.stm>

#### **Researchers Map 'Circuitry' of Yeast Genes Using Technique That Could Be Applied to Humans**

EurekAlert!

06-May-05

Researchers have invented a technique that organizes the genetic information contained in the 16 chromosomes of the yeast *Saccharomyces cerevisiae* into a wiring diagram. Such a diagram of the human genome could help researchers.

[http://www.eurekalert.org/pub\\_releases/2005-05/uoc--rm050605.php](http://www.eurekalert.org/pub_releases/2005-05/uoc--rm050605.php)

### *Subcategory: Nanotechnology*

#### **New Technique May Speed DNA Analysis**

Bio.com

18-May-05

A "nano-printing" technique could enable the mass production of nano-devices used to diagnose and understand genetic illnesses such as Alzheimer's, viral illnesses such as AIDS, and certain types of cancer, which are currently built one at a time.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=10000209>

### *Subcategory: Proteomics*

#### **By Creating Molecular 'Bridge,' Scientists Change Function Of A**

Bio.com

06-May-05

A bridge between existing protein function to the target new function gives the ability to create protein functions for any purpose you want - as a catalyst to create new chemicals that might be useful in such things as therapeutics.

<http://www.bio.com/realm/research.jhtml?realmId=2&cid=10200015>

### *Subcategory: SNP*

## **Biosensors Detect DNA Mutations**

Bioscience Technology

09-May-05

By piggybacking individual DNA bases onto quantum dots, researchers created a biosensor that can detect single nucleotide polymorphisms (SNPs). Researchers believe it has the potential to be developed into a diagnostic device.

<http://www.biosciencetechnology.com/ShowPR~PUBCODE~090~ACCT~9000000100~ISSUE~0505~RELTYPE~PR~ORIGRELTYPE~RLSN~PRODCODE~00000000~PRODLETT~F.html>

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## **RESEARCH ADVANCEMENTS**

### *Subcategory: Addiction*

#### **Heroin Addiction Gene Identified and Blocked**

New Scientist

31-May-05

Scientists have not only identified a critical gene, called AGS3, involved in heroin addiction relapse, but they have also successfully blocked it, eliminating cravings for the drug.

<http://www.newscientist.com/article.ns?id=dn7445>

### *Subcategory: Cardiology/ Vascular Diseases*

#### **Mayo Clinic Researchers Discover Genetic Glitch in the Heart's**

EurekAlert!

02-May-05

Researchers have identified defects in a second gene called RyR2 that causes malfunctions in the heart's electrical system and contributes to what were previously unexplained drownings.

[http://www.eurekalert.org/pub\\_releases/2005-05/mc-mcr042905.php](http://www.eurekalert.org/pub_releases/2005-05/mc-mcr042905.php)

#### **Little Known Enzyme ACAT2 Appears to Be a Factor in Cardiovascular**

News-Medical

02-May-05

There are 3 different enzymes (ACAT1, ACAT2 and LCAT) that can change cholesterol into a form that can be more easily carried in blood.

Drugs which target ACAT2, a cholesterol transforming enzyme, could dramatically reduce the risk of heart disease.

<http://www.news-medical.net/?id=9681>

### *Subcategory: Cell Lines*

#### **The National Academies' Guidelines for Human Embryonic Stem-Cell**

Jonathan D. Moreno, Ph.D.

BioPharm International

01-May-05

Discusses key recommendations for human embryonic stem (hES) cell research by the National Academies of Sciences and the Institute of Medicine. It is hoped all involved will voluntarily adhere to them and

impose sanctions if they are violated.

<http://www.biopharm-mag.com/biopharm/article/articleDetail.jsp?id=162441>

### *Subcategory: Cell Therapy*

#### **Careful How You Monkey With DNA**

Wired News

02-May-05

Animals implanted with human cells, scientists say, may reveal the secrets of primordial human development and lead to novel medical treatments. But some projects, such as those involving human embryonic stem cells, raise worrisome scenarios.

<http://www.wired.com/news/medtech/0,1286,67395,00.html>

### *Subcategory: Immunology/ Infectious Diseases*

#### **Pig Molecule to Combat Superbugs**

BBC News

08-May-05

Scientists have found an anti-bacterial agent produced by pigs can help prevent skin infection in humans. The molecule, PR39, is from a family of protective proteins called cathelicidins. Humans only have 1 cathelicidin gene, whereas pigs have several.

<http://news.bbc.co.uk/1/hi/health/4523301.stm>

#### **Pathogens Shape Evolution Of Humans' Most Diverse Genes**

Bio.com

06-Jun-05

Researchers report new findings that support the idea that the striking diversity of HLA genotypes in humans is shaped to a significant degree by the different sets of pathogenic species encountered by different human populations around the world.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=10800005>

#### **Human Cells Can 'silence' HIV Genes**

EurekAlert!

19-May-05

A new finding that human cells can silence an essential part of HIV's genetic make-up could have important implications for the treatment of people infected with the virus.

[http://www.eurekalert.org/pub\\_releases/2005-05/nioa-hcc051905.php](http://www.eurekalert.org/pub_releases/2005-05/nioa-hcc051905.php)

#### **Protein Prevents Detrimental Immune Effects of Bacterial Sepsis**

EurekAlert!

23-May-05

Bacterial sepsis ranked among the top 10 causes of death in the US. Annexin 1 gene expression provides a new direction for such therapeutics that delicately balances removal of bacterial toxins and damage to host tissues.

[http://www.eurekalert.org/pub\\_releases/2005-05/ajop-ppd051305.php](http://www.eurekalert.org/pub_releases/2005-05/ajop-ppd051305.php)

***Subcategory: Metabolism: Obesity, Diabetes***

**Joslin Diabetes Center Scientists Find 'Brown Fat Cells' Hold Clues for Possible Obesity Treatments**

EurekaAlert!

23-May-05

Researchers discovered that reducing the level of the protein neccin is essential for precursor cells to give rise to brown fat cells, whose main role is to burn energy and generate heat. This may lead to a treatment for obesity.

[http://www.eurekalert.org/pub\\_releases/2005-05/jdc-jdc052305.php](http://www.eurekalert.org/pub_releases/2005-05/jdc-jdc052305.php)

**Filling the Niches in Candidates for Protein-Protein Interactions**

Leslie Pray, PhD

Genomics & Proteomics

01-May-05

Scientists hope a better understanding of the SIRT1 protein to PCG-1 $\alpha$  protein interaction will lead to novel treatment for diabetes.

<http://www.genpromag.com/ShowPR.aspx?PUBCODE=018&ACCT=1800000100&ISSUE=0505&RELTYPE=PR&ORIGRELTYPE=PRO&PRODCODE=00000000&PRODLETT=AE>

**Insulin Itself May Spark Type I Diabetes**

New Scientist

11-May-05

Insulin itself is the target of friendly fire from the immune system in Type I diabetes, new research shows. The discovery may one day help doctors forestall that attack and thus prevent the disease.

<http://www.newscientist.com/article.ns?id=dn7367>

***Subcategory: Miscellaneous***

**Fastest-evolving Genes in Humans and Chimps Revealed**

New Scientist

03-May-05

A study has shown that genes most favored by natural selection are those associated with immunity, tumor suppression, and programmed cell death. This provides evidence for selection being related to disease defense and apoptosis

<http://www.newscientist.com/article.ns?id=dn7335>

***Subcategory: Musculoskeletal***

**Disabling Gene Defuses Rheumatoid Arthritis in Mice**

Medical News Today

16-May-05

A newly identified role for the gene Foxo3a may open a new window for treating arthritic conditions caused by immune dysfunction. It allows immune cells known as neutrophils to protect themselves from

the inflammatory chemicals they secrete.

<http://www.medicalnewstoday.com/medicalnews.php?newsid=24462&nfid=mnf>

***Subcategory: Nephrology/ Urology***

**Biomarkers for Interstitial Cystitis Identified, Could Lead to the First**

EurekaAlert!

21-May-06

Researchers have isolated two biomarkers for interstitial cystitis (IC). The discovery of these biomarkers could lead to a definitive test for IC and have the potential to lead to new therapies for this chronic and painful pelvic disease.

[http://www.eurekaalert.org/pub\\_releases/2005-05/uopm-bfi051905.php](http://www.eurekaalert.org/pub_releases/2005-05/uopm-bfi051905.php)

**Gene Yields Clues to Chronic Kidney Disease**

HealthDay

05-May-05

Researchers found that a mutant form of the gene, called Transient Receptor Potential Cation Channel 6, is linked to familial focal segmental glomerulosclerosis (FSGS), a form of kidney disease that can lead to complete organ failure.

<http://www.healthday.com/view.cfm?id=525526>

***Subcategory: Neurology***

**Dartmouth Medical School Researchers Identify Enzymatic Activity of Neurological Disease Gene**

Dartmouth Medical School

27-May-05

Mutations in the gene encoding Aprataxin are the second leading cause of an early onset hereditary ataxia, progressive, neurological disorders, causing loss of balance and motor coordination in hands and legs, and control of ocular movements.

[http://dms.dartmouth.edu/news/2005\\_h1/27may2005\\_brenner.shtml](http://dms.dartmouth.edu/news/2005_h1/27may2005_brenner.shtml)

**One Gene Links Newborn Neurons with Those That Die in Diseases Such as Alzheimer's**

EurekaAlert!

23-May-05

Replaceable neurons share something in common with the neurons that die in people with diseases such as Alzheimer's and Parkinson's: both have unusually low levels of a protein called UCHL1.R.

[http://www.eurekaalert.org/pub\\_releases/2005-05/ru-og1052005.php](http://www.eurekaalert.org/pub_releases/2005-05/ru-og1052005.php)

**Amino Acid May Harm Memory and More**

HealthDay

02-May-05

Researchers have found that high levels of homocysteine were associated with lower performance in tests of memory, attention,

visual perception, and construction. It may be that that homocysteine has a direct neurotoxic effect on the brain.

<http://www.healthday.com/view.cfm?id=525395>

### **Protein Clue May Help Fight Huntington's Disease**

HealthDay

09-May-05

A mutant protein thought to be the culprit in Huntington's disease appears to trigger a form of cell toxicity that damages brain cells, according to new research. The finding could lead to new therapeutic targets against the neurodegenerative disease.

<http://www.healthday.com/view.cfm?id=525574>

### **Gene Study Suggests Vitamin E Helps Blocks Alzheimer's**

Nutra Ingredients

04-May-05

Scientists have identified a number of genes associating vitamin E with protection against Alzheimer's disease. The underlying molecular mechanisms remain poorly understood.

<http://www.nutraingredients.com/news/news-ng.asp?n=59811-gene-study-suggests>

## ***Subcategory: Oncology***

### **Infancy 'Determines Cancer Risk'**

BBC News

31-May-05

The earliest days of life could determine if risky genes such as BRCA1 and BRCA2 for breast cancer will go on to trigger cancer, scientists claim.

<http://news.bbc.co.uk/1/hi/health/4586305.stm>

### **Function Of Cancer Genes Discovered**

Bio.com

13-May-05

Patients with the very rare genetic condition cylindromatosis develop a lot of benign tumors on the skin. People with this disease have a mutated form of the protein CYLD. The findings have led to new treatment for patients with the cancerous form.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=10000110>

### **Northwestern's Cancer Genetics Program Id's Gene Variant That Increases Colon Cancer Risk**

EurekaAlert!

02-May-05

Transforming Growth Factor Beta Receptor 1\*6A (TGFB1\*6A), a mutated gene present in nearly 1 in 8 people and the most commonly inherited cancer susceptibility gene identified so far, might be responsible for a large number of familial colorectal cancers.

[http://www.eurekaalert.org/pub\\_releases/2005-05/nmh-ncg050205.php](http://www.eurekaalert.org/pub_releases/2005-05/nmh-ncg050205.php)

### **Blood Test for Ovarian Cancer Shows Promise**

HealthDay

09-May-05

Tests of more than 200 women showed that if the levels of 2 or more of 4 biomarkers fell within a certain range, a tumor was present. The test was 95% effective in identifying ovarian cancer, including stage I and stage II malignancies.

<http://www.healthday.com/view.cfm?id=525596>

### **Protein Clue Could Help Fight Cancer**

HealthDay

26-May-05

Scientists report that the protein ATF2, already recognized for its role in gene regulation, also helps initiate cellular DNA repair. Researchers are now exploring how molecules like ATF2 are able to balance their dual roles.

<http://www.healthday.com/view.cfm?id=525914>

### **Researchers Find First Gene for Inherited Testicular Cancer in Mice**

Medical News Today

19-May-05

A mutation occurs in a gene called dead end, involved in normal testicular development and may play a role in inherited forms of a testicular cancer occurring in infants. The mutation causes a huge increase in testicular cancer incidence, from 5% to 94%.

<http://www.medicalnewstoday.com/medicalnews.php?newsid=24701>

### **Scientists Inhibit Cancer Gene - Potential Therapy for up to 30 Percent of Human Tumors**

Medical News Today

10-May-05

Normal copies of a gene called Ras are important in cell signaling, or communication among cells. When mutated, however, Ras is an "oncogene" or cancer-causing gene that has been shown to promote the growth of cancers in the pancreas and elsewhere.

<http://www.medicalnewstoday.com/medicalnews.php?newsid=24073>

### **Function of Cancer Genes Discovered**

Netherlands Organization

12-May-05

Patients with the very rare genetic condition cylindromatosis develop a lot of benign tumors on the skin. These tumors mainly occur on the head where they can cause serious malformations. People with this disease have a mutated form of the protein CYLD.

[http://www.nwo.nl/nwohome.nsf/pages/NWOP\\_6B9DC9\\_Eng](http://www.nwo.nl/nwohome.nsf/pages/NWOP_6B9DC9_Eng)

### ***Subcategory: Pain Management***

### **Protein Essential For Hearing Also Vital For Pain Perception**

Bio.com

25-May-05

The same protein that "translates" sound into nerve signals to the brain and enables individuals to hear is also required for pain perception, researchers have found.

<http://www.bio.com/realm/research.jhtml?realmId=2&cid=10600007>

*Subcategory: Proteomics*

**Gene Keeps Neural Cells On Correct Developmental Path**

Bio.com

19-May-05

Scientists have found that a protein called REST, which is short for RE1-silencing transcription factor, uses a different temporary off mechanism to direct neuronal development. It shows how stem cells retain developmental plasticity.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=10000161>

*Subcategory: Reproduction*

**Stem Cells and Regeneration: Opening up a New Can of Worms**

EurekAlert!

02-May-05

Even a small piece cut off a planarian can reorganize and regenerate to form a whole new worm. Research may provide relevant information that further enhances the understanding of human development and health.

[http://www.eurekalert.org/pub\\_releases/2005-05/cp-sca042505.php](http://www.eurekalert.org/pub_releases/2005-05/cp-sca042505.php)

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## RESEARCH TOOLS

*Subcategory: Computing Systems*

**Gene 'Archeology' Gets Easier Using Carnegie Mellon University**

EurekAlert!

12-May-05

Pinpointing the ancestry of any given gene is a complex computational task. Now, powerful new software makes gene "archeology" considerably easier.

[http://www.eurekalert.org/pub\\_releases/2005-05/cmu-gg051205.php](http://www.eurekalert.org/pub_releases/2005-05/cmu-gg051205.php)

*Subcategory: Databases*

**Knowledge Management Strategies for Biologics Research**

Christopher Larsen, Ph.D.

BioPharm International

01-May-05

The sheer volume of research and drug discovery data can thwart efforts at integrating research knowledge. An automated database system with useful algorithms could help solve this problem.

<http://www.biopharm-mag.com/biopharm/article/articleDetail.jsp?id=162436>

## **Swedish researchers first in the world to gain access to the Biobank Information Management System (BIMS)**

Karolinska Institute

27-May-05

The BIMS makes it easier to find causes, diagnostic tools and cures for diseases by allowing more research scientists and research fields to make use of huge amounts of connectable data.

[http://info.ki.se/article\\_en.html?ID=3812](http://info.ki.se/article_en.html?ID=3812)

### *Subcategory: Genome Sequence*

## **Public Release Of Pig Genomic Sequences**

Bio.com

06-Jun-05

Research indicates that pig is genetically closer to man than normally used laboratory animals. This has important implications for the use of pigs in medical research and drug testing.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=10800007>

## **Major Advance Made on DNA Structure**

EurekAlert!

02-May-05

Scientists have announced that they have used X-ray crystallography to determine the three-dimensional structures of nearly all the possible sequences of a macromolecule, and thereby create a map of DNA structure.

[http://www.eurekalert.org/pub\\_releases/2005-05/osu-mam050205.php](http://www.eurekalert.org/pub_releases/2005-05/osu-mam050205.php)

## **DNA Sequencing: A Race Toward the \$1,000 Genome**

Emma Hitt

Genomics & Proteomics

01-May-05

Innovative approaches to fast, cheap sequencing may be the start of the next step in the quest for everyday genomes. Sequencing technologies include capillary/microelectrophoretic, single-molecule, synthesis and hybridization methods.

<http://www.genpromag.com/ShowPR.aspx?PUBCODE=018&ACCT=1800000100&ISSUE=0505&RELTYPE=PR&ORIGRELTYPE=GPF&PRODCODE=00000000&PRODLETT=AG>

### *Subcategory: Mouse/ Rat Models*

## **Mosaic Mouse Technique Offers a Powerful New Tool to Study Diseases and Genetics**

EurekAlert!

05-May-05

Researchers report a streamlined method for creating a "genetic mosaic mouse"--a rodent whose body is genetically engineered to produce small clusters of cells with mutated genes, providing a way to look at a tiny subset of cells and study gene function.

[http://www.eurekalert.org/pub\\_releases/2005-05/su-mmt050505.php](http://www.eurekalert.org/pub_releases/2005-05/su-mmt050505.php)

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## THERAPEUTIC CATEGORY

### *Subcategory: Geriatrics*

#### **Modified Mice Enjoy One-fifth More Life**

New Scientist

05-May-05

A mouse with the ability to mop up free radicals at the cellular level - and live longer as a result - has been created by scientists. The research is a boost for the free radical theory of ageing.

<http://www.newscientist.com/article.ns?id=dn7347>

### *Subcategory: Musculoskeletal*

#### **Exercise Training in Ordinary People Affects the Activity of 500 Genes**

Karolinska Institutet

02-May-05

A study shows that hundreds of genes in the thigh muscle are activated in regular cycle training. The study also reveals that great differences in training response may be due to the ability in some people to activate their genes much more forcefully.

[http://info.ki.se/article\\_en.html?ID=3543](http://info.ki.se/article_en.html?ID=3543)

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