



BioTechCircle News®

April, 2006

Quote of the month:

A cell phone-sized blood-count machine requiring less blood than a mosquito bite will make blood tests easier for many patients, from neonatal units to astronauts in space.

<http://www.nsbri.org/NewsPublicOut/Release.epl?r=89>

In this articles section: links to 64 free Web articles in 11 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:

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AGRI-BIOTECH

Subcategory: Oncology

Popular Spices May Stop Cancer Growth

Nutra Ingredients

05-Apr-06

Ginger and chilli peppers may inhibit the growth of certain cancers, say scientists. The rhizome of the ginger plant (*Zingiber officinale*) is a rich source of antioxidants and capsaicin in red chilli pepper inhibited pancreatic cancer cell growth in mice.

<http://www.nutraingredients.com/news/ng.asp?n=66884>

BIOBUSINESS MANAGEMENT

Subcategory: Investees

Turning Scientists Into Entrepreneurs

International Herald

10-Apr-06

A study of university scientists who received financing from the U.S. National Cancer Institute found that the scientists generated patents at a rapid pace and started companies in surprisingly high numbers.

<http://www.iht.com/articles/2006/04/10/business/patents.php>

Subcategory: Miscellaneous

Precedents for Good Storage Practice

F. John Mills

Applied Clinical Trials

01-Apr-06

Mills outlines the commercial, scientific, and legal implications for storing biological samples from clinical research and suggests steps companies can take to develop "good storage practice."

<http://www.actmagazine.com/appliedclinicaltrials/article/articleDetail.jsp?id=316475&pageID=1&sk=&date=>

DIAGNOSTIC TOOLS

Subcategory: Cardiology/ Vascular Diseases

Measuring Artery Repair Cells Could Become New Heart Disease Test

Duke Univ.

12-Mar-06

Endothelial progenitor cells (EPC) are produced in the bone marrow and travel to the site of arterial damage. Researchers say that tests for EPCs could be used to assess a patient's degree of coronary artery disease or risks for suffering a heart attack.

<http://www.dukemednews.org/news/article.php?id=9558>

Mayo Clinic Finding May Double Genetic Screening Effectiveness for Sudden Death Heart Condition

Mayo Clinic

19-Apr-06

A distinctive features of the heart muscle as seen with echocardiography can be used to improve the ability of a genetic test to detect the presence of a potentially lethal, inherited heart condition called hypertrophic cardiomyopathy (HCM).

<http://www.mayoclinic.org/news2006-rst/3344.html>

Subcategory: Imaging

Protein Discovery Researchers Collaborate on High-profile Paper

Oak Ridge National

12-Apr-06

A new technique can steer DNA or other biomolecules for transport in three dimensions and also separate them according to size and their isoelectric point. This ability has applications for medical diagnostics and as a discovery tool.

http://www.ornl.gov/info/press_releases/get_press_release.cfm?ReleaseNumber=mr20060412-00

Subcategory: Oncology

Researchers Discover a Unique Molecular Profile for Lung Cancer

National Institute of

13-Mar-06

Researchers have found that the expression pattern of certain microRNAs, or miRNAs, may predict tumor aggressiveness in some patients with lung cancer. Suggests miRNAs may represent a new class of diagnostic and prognostic tools for lung cancer.

<http://www.nih.gov/news/pr/mar2006/nci-13.htm>

Subcategory: Test Systems - Cytology/ Histology

Building a hand-held lab-on-a-chip to simplify blood tests

National Space

11-Apr-06

A cell phone-sized blood-count machine requiring less blood than a mosquito bite will make blood tests easier for many patients, from neonatal units to astronauts in space.

<http://www.nsbri.org/NewsPublicOut/Release.ep!?r=89>

DRUG DELIVERY

Subcategory: Gene Therapy

New Lipid Molecule Holds Promise For Gene Therapy

Univ. California, Santa

22-Mar-06

Inherited diseases, and many cancers and cardiovascular diseases, may eventually be helped by a new molecule which delivers therapeutic

genes directly to cells. These genes can correct genetic defects or help the body's immune system fight cancer cells.

<http://www.ia.ucsb.edu/pa/display.aspx?pkey=1421>

Subcategory: Miscellaneous

Special Delivery: New Family of Biodegradable Polymers Shows Promise for Intracellular Drug Delivery

Georgia Institute of

28-Mar-06

These polymers have several advantages over existing biodegradable polymers, researchers said. Among them, the polyketals are biodegradable into Food and Drug Administration-approved compounds and are easy to synthesize.

<http://gtresearchnews.gatech.edu/newsrelease/polyketals.htm>

Subcategory: Oncology

MIT, Brigham: Nanoparticles Armed to Combat Cancer

Bio.com

10-Apr-06

Researchers report a way to custom design nanoparticles so they home in on dangerous cancer cells, then enter the cells to deliver lethal doses of chemotherapy. Normal, healthy cells remain unscathed.

<http://www.bio.com/realms/research.jhtml?realmId=5&cid=18600046>

INDUSTRY

Subcategory: Big Pharma

Drug Firms 'Inventing Diseases'

BBC News

11-Apr-06

Quotes report: "Disease-mongering is the selling of sickness that widens the boundaries of illness and grows the markets for those who sell and deliver treatments."

<http://news.bbc.co.uk/1/hi/health/4898488.stm>

Subcategory: Biomarker

Buzz Over Biomarker Discovery

Gina Shaw

Drug Discovery & Development

01-Apr-06

Industry dollars are flowing into biomarker discovery as companies realize its potential, particularly in oncology.

<http://www.ddmag.com/ShowPR.aspx?PUBCODE=090&ACCT=1600000100&ISSUE=0604&RELTYPE=CHO&PRODCODE=00000000&PRODLETT=T>

Subcategory: Geographic Focus

A Bioscience Beginning

Bizjournals.com

24-Mar-06

A triangle of downtown Atlanta that includes Grady Hospital, Georgia State University and parts of the Georgia Institute of Technology could be on its way to becoming a formal bioscience district.

<http://www.bizjournals.com/atlanta/stories/2006/03/27/focus11.html>

Subcategory: Miscellaneous

2006 Life Science Industry Awards Winners

Biospace

05-Apr-06

Lists winners of the 2006 Life Science Industry Awards across 18 categories.

http://www.biospace.com/news_story.aspx?StoryID=14534&full=1

Subcategory: Venture

Biotechs in Region Lead US in Red Ink

The Boston Globe

04-Apr-06

The New England region's publicly traded biotechnology companies lost nearly \$1.2 billion in 2005, more than those in any other part of the country, according to a national report.

http://www.boston.com/business/globe/articles/2006/04/04/biotechs_in_region_lead_us_in_re

INVESTMENTS/ GOV. SUPPORT

Subcategory: Geographic Focus

Biotech Takes the Lead in Attracting VC Dollars

Bizjournals.com

24-Mar-06

In Georgia, biotechnology and medical device companies -- startups developing everything from ophthalmology drugs to heart devices -- received the most money in 2005. In 2005, investors pumped about \$6 billion into such companies nationwide.

<http://www.bizjournals.com/atlanta/stories/2006/03/27/newscolumn1.html>

PLATFORM TECHNOLOGIES

Subcategory: Genomics

Minimal Genome Should Be Twice the Size

Bio.com

20-Mar-06

The simplest bacteria need almost twice as many genes to survive than scientists first believed, according to new research. The knock out approach appears to wrongly remove many of the genes that are

essential to the survival of bacteria.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=18400012>

New Mechanism for Essential Genome-wide Gene Silencing Identified

The Wistar Institute

14-Apr-06

Reliable gene silencing is vital to the health of an organism. Only about 10% of the roughly 25,000 genes in the human genome are activated, or "on," at any given time in a particular cell; the default setting for most genes is "off," or repressed.

http://www.wistar.org/news_info/pressreleases/pr_04.14.06.html

Subcategory: Nanotechnology

Nano Machine Switches Between Biological and Silicon Worlds

Bio.com

24-Apr-06

Scientists have created a molecular switch that could play a key role in thousands of nanotech applications, using a microfluidics chip that includes a number of channels measured in nanometers.

<http://www.bio.com/realm/research.jhtml?realmId=5&cid=18800036>

Subcategory: Personalized Medicine

Nanopore Method Could Revolutionize Genome Sequencing

Bio.com

06-Apr-06

Researchers have shown the feasibility of a fast, inexpensive technique to sequence DNA as it passes through tiny pores. The advance brings personalized, genome-based medicine closer to reality.

<http://www.bio.com/realm/features.jhtml?realmId=1&cid=18600024>

Subcategory: Proteomics

Physics and Biology Team Up to Tackle Protein Folding Debate

Bio.com

04-Apr-06

Researchers have identified a simple, single mechanism that explains the mechanical role of molecular chaperones, specialized proteins that help other proteins find their proper conformations and reach their proper places in the cell.

<http://www.bio.com/realm/research.jhtml?realmId=2&cid=18500037>

RESEARCH ADVANCEMENTS

Subcategory: Addiction

Large Family Study Pinpoints Genetic Linkage in Drug Addiction

Yale University

10-Apr-06

Researchers found evidence of gene linkage for opioid dependence and also found strong evidence of linkage in the family groups for the

symptom cluster traits characterized by dependence on other substances, specifically, alcohol, cocaine and tobacco.

<http://www.yale.edu/opa/newsr/06-04-10-01.all.html>

Subcategory: Cardiology/ Vascular Diseases

Free-radical Busting Antioxidants Might Not Promote Healthy Hearts

Bio.com

10-Apr-06

Researchers found no relationship between the levels of oxidized cholesterol in blood vessels and the severity of heart disease. This might help explain the disappointing results of clinical trials with other free radical-scavenging antioxidants.

<http://www.bio.com/realm/research.jhtml?realmId=4&cid=18600036>

Subcategory: Cell Therapy

Research Finds Bone-Marrow-Derived Stem Cells Can Reverse Genetic Kidney Disease

Bio.com

24-Apr-06

Study showing bone-marrow derived stem cells can regenerate damaged renal cells offers the first example of how stem cells may be useful in repairing basement membrane matrix defects and restoring organ function.

<http://www.bio.com/realm/research.jhtml?realmId=4&cid=18900015>

Subcategory: Disease Prevention

Transplanted Nerve Tissue Can Cause Human 'Mad Cow' Disease

HealthDay

20-Apr-06

Worldwide, there have been 164 cases of Creutzfeldt-Jakob Disease caused by transplanted human dura mater, used in cranial and spinal surgical repair and a number of other procedures, including the reinforcement of ligaments and tendons.

<http://www.healthday.com/view.cfm?id=532221>

Subcategory: Hematology

Researchers Identify Role of Protein in Hemoglobin Gene Silencing

Bio.com

11-Apr-06

Researchers have identified the role of a protein in hemoglobin gene silencing that may one day be a potential target for the treatment of genetic blood disorders like sickle-cell anemia and beta-thalassemia on the molecular level.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=18600047>

Subcategory: Immunology/ Infectious Diseases

UCSD Biochemists Discover Bacteria's Achilles' Heel

Bio.com

06-Apr-06

Researchers have determined what factors turn on protein production in bacteria, a finding that provides new targets for the development of antibiotics.

<http://www.bio.com/realm/research.jhtml?realmId=2&cid=18600017>

Bioportfolio: Life-long Persistence of Erythrovirus DNA Genomes in Human Tissue

Bio.com

26-Apr-06

Using human erythrovirus as the example, researchers have demonstrated that viral genomic material persisting in the human body yields valuable information on viral phylogeny and on molecular epidemiology of infection.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=18900019>

Evolution Follows Few of the Possible Paths to Antibiotic Resistance

Bio.com

11-Apr-06

Research indicates that of 120 complex, 5-step mutational paths that theoretically could grant antibiotic resistance, only about 10 actually endow bacteria with a meaningful evolutionary advantage.

<http://www.bio.com/realm/research.jhtml?realmId=2&cid=18600057>

Discovery at the Feinstein Suggests New Treatment Approach for Inflammatory Conditions

EurekaAlert!

03-Apr-06

Researchers looked at certain nerve cell receptors in the brain and found they control inflammation in the body, presenting a potential new approach for treating inflammatory conditions like rheumatoid arthritis and inflammatory bowel disease.

http://www.eurekaalert.org/pub_releases/2006-04/nsij-dat040306.php

New Class of Enzyme Inhibitors Block Replication of SARS Virus

Scripps Research Institute

27-Mar-06

Resesarchers found that a group of catalyzing agents, called benzotriazole esters, used to helped promote chemical reactions in the laboratory were actually more powerful in blocking the SARS protease than Lopinavir or any of the target compounds.

http://www.scripps.edu/newsandviews/e_20060327/sars.html

Subcategory: Metabolism: Obesity, Diabetes

Big Hips, Big Belly? It's In Your Genes, Joslin-led Study Shows

Bio.com

11-Apr-06

Researchers for the first time used gene chips as a tool to understand what genes might control the development of fat inside the abdomen versus fat under the skin.They found that as many as 12 developmental genes may play a role in different fat depots.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=18600056>

Joslin-led Study Reveals Findings on How Insulin-producing Beta Cells

Bio.com

24-Apr-06

Finding is helping scientists in their efforts to isolate the growth factors that do stimulate beta cell growth and understand the defects in insulin production and secretion that cause diabetes.

<http://www.bio.com/realm/research.jhtml?realmId=4&cid=18800028>

Another Gene Variant That's Linked to Obesity

Scripps Howard News

13-Apr-06

Researchers calculate that the obesity-predisposing genotype is present in about 10% of populations worldwide. The variant lies near an insulin-induced gene (INSIG2) that's known to produce a protein controlling the burn rate of fatty acid and cholesterol.

http://www.shns.com/shns/g_index2.cfm?action=detail&pk=OBESEGENE-04-13-06

Subcategory: Miscellaneous

Rewind, Please: Nature Paper Shows that Cell Division is Reversible

Bio.com

12-Apr-06

A researcher has found a way to reverse the process of cell division. The discovery could have important implications for the treatment of cancer, birth defects and numerous other diseases and disorders.

<http://www.bio.com/realm/research.jhtml?realmId=4&cid=18700015>

Subcategory: Neurology

Pin1 Enzyme Key in Preventing Alzheimer's Onset

Beth Israel Deaconess

22-Mar-06

The enzyme, shown to prevent the formation of the tangle-like lesions found in the brains of Alzheimer's disease patients, also helps guard against the development of amyloid peptide plaques, the second brain lesion that characterizes Alzheimer's.

http://www.bidmc.harvard.edu/?node_id=1000&mainFrameSrc=/tools/newsnow/pr_out.asp?pr

Protein Facilitates "Hard-Wiring" of Brain Circuitry

Bio.com

10-Apr-06

A mechanism underlying the molecular switch that turns young, adaptable brains into older, less malleable brains has been discovered. The findings could lead to a better understanding of disorders of early brain development.

<http://www.bio.com/realm/research.jhtml?realmId=2&cid=18700002>

New Evidence Questions the Simple Link Between Prion Proteins and

Bio.com

30-Mar-06

While newly published research confirms that under laboratory circumstances prion-protein can be absorbed across the gut, it also

shows that this is unlikely to occur in real life.

<http://www.bio.com/realm/research.jhtml?realmId=2&cid=18500005>

Subcategory: Oncology

Mutant Gene's Kidney Cancer Clue

BBC News

02-Apr-06

Scientists have discovered how a faulty VHL (von Hippel-Lindau) gene can increase the risk of kidney tumors. Kidney cells with faulty VHL lack a normal protein molecule, e-cadherin, and behave as if they receive much less oxygen than they really are.

<http://news.bbc.co.uk/1/hi/health/4861500.stm>

New Model of p53 Regulation Proposed that Suggests Novel Anticancer

Bio.com

11-Apr-06

New findings suggest that cancer drugs now being tested that inhibit the protein Mdm2, part of the system of checks and balances ensuring that p53 restricts unchecked cell growth but doesn't wreak havoc in healthy cells, may not work as hoped.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=18600048>

Scientists Discover New Gene Responsible for Spread of Cancer

Bio.com

29-Mar-06

The new discovery of S100P's role in metastasis builds on several years' work to investigate the genes that cause cancerous tumors to travel to other tissues in the body. Metastasis-inducing genes discovered earlier are S100A4, osteopontin, and AGR2.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=18400002>

Cancer Cells Suppress Large Regions of DNA by a Reversible Process that Can Be Tackled

Bio.com

24-Apr-06

Researchers have found large regions of DNA are 'switched off' in colon cancer. These large "suburb" regions contain genes that normally function to prevent the development of tumors.

<http://www.bio.com/realm/research.jhtml?realmId=1&cid=18800026>

Genetic Switch That Links Animal Growth And Cancer Discovered

Medical News Today

19-Apr-06

Researchers have discovered that a genetic switch involved in growth and development of an animal is the same one used to prevent normal cells from becoming cancerous. The findings could provide new therapeutic targets for intervention in cancer.

<http://www.medicalnewstoday.com/medicalnews.php?newsid=41784&nfid=rssfeeds>

RNA Interference Genetic Screen Suggests New Targets for Cancer

National Institute of Health

29-Mar-06

Researchers have developed a new method to identify genes that keep cancer cells active and that could be potential targets of anticancer therapies. The method could be used to identify a new class of oncogenes.

<http://www.nih.gov/news/pr/mar2006/nci-29.htm>

Natural Change Can Turn Genes down as Well as off

Ohio State Univ.

23-Mar-06

Researchers have discovered that a natural chemical process, known as DNA methylation, that usually turns off gene activity can sometimes work like a dimmer switch and instead simply turn down the activity.

<http://researchnews.osu.edu/archive/lungjnci.htm>

Enzyme Crystal Structure Reveals "Unexpected" Genome Repair

The Scripps Institute

10-Apr-06

Research illuminates the roles played by the important XPB protein in recognizing blockages in reading the DNA code and in initiating an efficient method of repair. The discovery may be useful in the quest to develop new forms of chemotherapy.

<http://www.scripps.edu/news/press/040606.html>

New Mechanism That Causes Spread of Colorectal Cancer

Thomas Jefferson

06-Apr-06

The discovery of a new molecular mechanism by which the enzyme MMP-9 promotes cancer spread may provide a new target at which to aim anti-metastasis drugs.

<http://www.jefferson.edu/news/index.cfm?artid=2006/article11808.html>

Molecule Targets and Kills Tumor Cells, Starves Blood Supply

Univ. of Illinois at Chicago

20-Mar-06

A man-made chemical compound called ARC causes tumor cells to die but leaves normal cells unharmed, researchers report. ARC also proved to have strong anti-angiogenic properties, showing promise as an inhibitor of new blood vessel formation in tumors.

<http://tigger.uic.edu/htbin/cgiwrap/bin/newsbureau/cgi-bin/index.cgi?from=Releases&to=Release&id=1399>

Researchers Unravel DNA Tangles and Enzyme Seamstresses

Univ. of Toronto

14-Mar-06

Study explores how DNA strands are carefully unravelled from the nucleus. The findings could have implications in designing new drugs to treat cancer and infectious diseases as uncontrolled DNA linking and tangling often result in cell death.

<http://www.news.utoronto.ca/bin6/060314-2126.asp>

Subcategory: Ophthalmology

Blind Mice Recover Visual Responses Using Protein from Green Algae

National Institute of Health

05-Apr-06

Mice that had been genetically bred to lose rods and cones, the light-sensitive cells in the retina, can respond to light when a green algae protein called channelrhodopsin-2 (ChR2) is inserted into the cell membranes.

<http://www.nih.gov/news/pr/apr2006/nei-05.htm>

Subcategory: Proteomics

Study Describes How Cells Return to Normal After Responding to Stress

Univ. of North Carolina

22-Mar-06

The research explores the role played by the protein CHIP in the cell's response to stress. CHIP is a co-chaperone, meaning that it associates with the molecular chaperone Hsp70 and regulates its activity.

<http://www.unc.edu/news/archives/mar06/chip031706.htm>

Study Reveals Most Detailed Map of Life-forming Instructions

University of Toronto

22-Mar-06

Researchers have recorded the most comprehensive and reliable map of protein interactions in a living organism to date, bringing science one step closer to deciphering and correcting disease-causing genetic instructions in humans and animals.

<http://www.news.utoronto.ca/bin6/060322-2146.asp>

RESEARCH TOOLS

Subcategory: Biomarker

Brussels Broods over Biomarkers

Peter O'Donnell

Applied Clinical Trials

01-Apr-06

Biomarkers take center stage in Europe, where their critical role is under examination, as the European Medicines Agency has been assiduously promoting exchanges of information on the subject.

<http://www.actmagazine.com/appliedclinicaltrials/article/articleDetail.jsp?id=316472>

Subcategory: Computing Systems

Getting to a Semantic Web on the Internet

Paul Bleicher

Applied Clinical Trials

01-Mar-06

Explains how Semantic Web concepts can be useful for organizing medical, scientific, research, or for that matter any, information. Notes that health care, pharmaceutical, and biological data are particularly rich areas for the Semantic Web.

<http://www.actmagazine.com/appliedclinicaltrials/article/articleDetail.jsp?id=310806>

Subcategory: Neurology

Mind Institute and National Center for Genome Resources to Decode Mystery of Schizophrenia Genetics

The MIND Institute

29-Mar-06

Investigators will identify common schizophrenia genes by sequencing and analyzing the entire genetic code (3 billion base pairs of DNA) of affected individuals to identify all mutation candidates.

<http://www.ncgr.org/archives/pr/SGP.pdf>

Subcategory: Reagents

New RNAi Tools Enable Systematic Studies of Gene Function

Broad Institute of MIT

23-Mar-06

Researchers announced the construction and availability of an extensive library of molecular reagents to silence most human and mouse genes, allowing the user to dissect the genetic underpinnings of normal biology and disease.

http://www.broad.mit.edu/cgi-bin/news/display_news.cgi?id=421

STRATEGIC RELATIONSHIPS

Subcategory: Collaboration

Industry Partnerships: Changing the Way R&D Is Conducted

Ira Spector

Applied Clinical Trials

01-Mar-06

Wyeth executive explains why its positive experience with partnerships is a good example of R&D progress for the industry.

<http://www.actmagazine.com/appliedclinicaltrials/article/articleDetail.jsp?id=310807>

THERAPEUTIC CATEGORY

Subcategory: Cardiology/ Vascular Diseases

More Fish Oil, Fewer Calories to Reduce Inflammation

Nutra Ingredients

20-Apr-06

Chronic inflammation, brought about by an over-expression can lead to a range of inflammatory related disease such as cardiovascular disease. A low-calorie diet, rich in fish oil could reduce the markers of inflammation up to 90%.

<http://www.nutraingredients.com/news/ng.asp?n=67195-fish-oil-dha-inflammation>

Subcategory: Disease Prevention

Cheap Way to Produce Expensive Malaria Drug Well on the Way

News-Medical

13-Apr-06

Researchers have created a modified form of the yeast *Saccharomyces cerevisiae* that is capable of producing large amounts of artemisinic acid, which is needed to make the anti-malaria drug artemisinin.

<http://www.news-medical.net/?id=17350>

Subcategory: Musculoskeletal

Study First to Show Potential of Light-activated Gene Therapy for Knee Injuries

Bio.com

24-Apr-06

A study has demonstrated for the first time that laser light can target gene therapy right up to the edge of damaged cartilage, while leaving nearby healthy tissue untouched.

<http://www.bio.com/realm/research.jhtml?realmId=4&cid=18900001>

First U.S. Trial of DMD Gene Therapy

Columbus Children's

29-Mar-06

In the trial, six boys with Duchenne muscular dystrophy (DMD) will receive replacement genes for an essential muscle protein.

<http://www.columbuschildrens.com/gd/applications/controller.cfm?page=204&id=230>

Subcategory: Oncology

Novel Antibody Shows Strong Potential for Lung Cancer Therapy

Univ. Massachusetts

10-Apr-06

Researchers have developed a novel monoclonal antibody that kills lung cancer cells, yet leaves normal cells untouched. The antibody is particularly effective against human lung cancer cells and may have a therapeutic effect on other types of tumors.

http://www.umassmed.edu/pap/news/2006/04_10_06.cfm

Ginger Causes Ovarian Cancer Cells to Die

Univ. of Michigan

04-Apr-06

Researchers found ginger caused ovarian cancer cells to die. Further, the way in which the cells died suggests ginger may avoid the problem common in ovarian cancer of cells becoming resistant to standard treatments.

<http://www.med.umich.edu/opm/newspage/2006/ginger.htm>

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