



BioTechCircle News®

December 2008

Featured December articles

Green technology is in, as evidenced by the large number of great "green" articles we found this month, spanning multiple categories and subcategories. Their titles are highlighted in green. Here are our featured non-green articles.

NOTE: It has always been our philosophy to highlight well-written biotech articles that you, our global readers, may access on the Web at no cost. Starting with the January 2009 report, we regret having to discontinue citing excellent articles that move to paid-subscription status after a brief time, often before we are able to post these monthly reports.

Cellular Senescence a Double-Edged Sword: New Study Holds Implications for Aging, Cancer and Evolution

Lynn Yarris Berkeley Lab 02-Dec-08

Scientists have identified a molecular cause behind the ravages of old age and in doing so have also shown how a natural process for fighting cancer in younger persons can actually promote cancer in older individuals.

http://newscenter.lbl.gov/press-releases/2008/12/02/cellular-senescence/

Production Line for Artificial Skin

Prof. Dr. Heike Mertsching Fraunhofer IGB 01-Dec-08

A fully automated process improves production of artificial tissue: medical scientists can perform transplants with skin produced in the laboratory. Tissue is also suitable for testing chemicals at a low cost without requiring animal experiments.

http://www.igb.fraunhofer.de/WWW/Presse/Jahr/2008/en/PI_skin-production.en.html

Melanoma Spawns Tumors with Deadly Efficiency

Sean J. Morrison Howard Hughes Medical Institute 04-Dec-08

New studies show that at least one of every four melanoma cells has the capacity to seed the development of new tumors. The finding suggests that targeting just a small subset of melanoma cells will not be enough to stop the cancer from growing.

http://www.hhmi.org/news/morrison20081204.html

Study of Ancient and Modern Plagues Finds Common Features

Anne A. Oplinger

NIH News

21-Nov-08

Common determinants of disease emergence that transcend time, place and human progress. A better understanding of these determinants is essential for preparing for the next emerging or re-emerging disease.

http://www.nih.gov/news/health/nov2008/niaid-21.htm

In this articles section: links to 60 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 (9 articles) – Page 2
Biobusiness Management (7 articles) – Page 4
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AGRI-BIOTECH

Subcategory: Crops

Lignocellulose: A Complex Biomaterial

Stephen K. Ritter

Chemical & Engineering News

08-Dec-08

Explains the complex structure of lignocellulose, the most abundant organic material on Earth, which is the primary component of plant cell walls and its breakdown to glucose.

http://pubs.acs.org/cen/coverstory/86/8649cover2.html

Plant Puberty

Sarah Everts Chemical & Engineering News 01-Dec-08

Reports on the first X-ray crystal structures of plant hormone gibberellin's structure, providing the framework for understanding how the hormone's signal process works.

http://pubs.acs.org/cen/news/86/i48/8648notw1.html

Subcategory: Energy/Fuel

Genes To Gasoline

Stephen K. Ritter Chemical & Engineering News 08-Dec-08

Discusses how scientists are working to quickly and cost-effectively break down lignocellulose, an impenetrable maze of cellulose chains bundled together into cablelike fibrils, to produce biofuels.

http://pubs.acs.org/cen/coverstory/86/8649cover.html

Bacteria Make Better Alcohol Fuels

Prachi Patel-Predd Technology Review 09-Dec-08

By engineering the metabolic process of the common E. coli bacteria, researchers have coaxed the microorganism into churning out useful long-chain alcohols that have potential as new biofuels.

http://www.technologyreview.com/energy/21783/?a=f

Cheaper Cellulosic Ethanol

Jennifer Kho Technology Review 10-Dec-08

Clostridium phytofermentans or Q microbe bacteria can convert many different types of feedstock, including starch, corn cobs, sugarcane bagasse, and woody biomass, directly into ethanol.

http://www.technologyreview.com/business/21777/?a=f

Boeing, Continental To Test Flight Powered By Biofuel

The Manufaturing.net 08-Dec-08

Airlines are studying the use of alternative fuels to help deal with volatile jet fuel prices and to reduce emissions of greenhouse gases.

http://www.manufacturing.net/News-Boeing-Continental-To-Test-Flight-Powered-By-Algea-Oil.aspx?menuid=36

Subcategory: Environmental

Toxin-eating Microbes Sweep up Dead Zones

Brandon Keim R & D Magazine 12-Dec-08

In a large-scale detoxification of 4,200-square-mile Atlantic ocean swath off the coast of Namibia, bacteria converted lethal sulphide into foul-smelling but otherwise harmless sulphur and sulphate.

http://www.rdmag.com/ShowPR~PUBCODE~014~ACCT~1400000100~ISSUE~0812~RELTY

PE~LST~PRODCODE~00000000~PRODLETT~AI.html

Subcategory: Food

Waste Coffee Grounds Make Great Biofuel

Kit Eaton Fast Company 12-Dec-08

By weight, spent coffee grounds have around 11% to 20% of oil remaining inside, from which up to 340 million gallons of biodiesel could be made.

http://www.fastcompany.com/blog/kit-eaton/technomix/waste-coffee-grounds-make-great-biofuel

Subcategory: Materials

Greener Glass

Lauren Cahoon Technology Review 04-Dec-08

Researchers have discovered a bacterial enzyme that creates a key raw material for making acrylic glass and acryclic paints. This enzyme could provide a new pathway to producing acrylics without using fossil fuels or generating much toxic waste.

http://www.technologyreview.com/biomedicine/21754/

BIOBUSINESS MANAGEMENT

Subcategory: Bioethics

Critics Rip Cell Paper

Bob Grant The Scientist 25-Nov-08

Improper citation, disregard for antecedent research, and shoddy experimentation are among many allegations against some research articles. Read comments that follow as well.

http://www.the-scientist.com/blog/display/55240/

Subcategory: Energy/Fuel

Wind, Water and Sun Beat Other Energy Alternatives, Study Finds

Louis Bergeron Stanford University 12-Dec-08

First quantitative, scientific evaluation of major energy-related solutions assesses potential for delivering energy, impacts on global warming, human health, energy security, water supply, space requirements, wildlife, other factors.

http://news-service.stanford.edu/news/2009/january7/power-010709.html

Subcategory: Financial Management (not funding)

Drastic Cuts among Some Biotech Companies

Bernadette Tansey San Francisco Chronicle 30-Nov-08

Some biotechnology companies are reacting to the funding drought by cutting back and shrinking to essentials.

http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2008/11/30/BUBM14CSKM.DTL

Subcategory: Patent/Intellectual Property Issues

Same Troll, New Name

Paul Livingstone

R & D Magazine

24-Nov-08

A defensive patent aggregator is merely a new chapter in the rapidly evolving business of intellectual property trading, which promises to heat up as potentially valuable patents continue to roll out in record numbers, says Livingston.

http://www.rdmag.com/ShowPR.aspx?PUBCODE=014&ACCT=1400000101&ISSUE=0811&R ELTYPE=PR&ORIGRELTYPE=EDNT&PRODCODE=00000000&PRODLETT=NU

Europe Rejects Stem Cell Patent

Andrea Gawrylewski

The Scientist

01-Dec-08

The European Patent Office (EPO) issued its final ruling in November 2008, rejecting a much-contested embryonic stem cell patent which the US Patent Office upheld.

http://www.the-scientist.com/blog/display/55249/

Subcategory: Personnel Issues

Mentoring Magic

Jennifer Evans The Scientist

01-Dec-08

The most fundamental thing a mentor can do for a lab is to help to maximize a lab's productivity through an environment of collaboration and respect.

http://www.the-scientist.com/templates/trackable/display/article1.jsp?type=article&o_url=article/display/55235 &id=55235

Subcategory: Privacy/Records Management

Cleveland Clinic Makes Physician Disclosures Available Online

Cleveland Clinic

03-Dec-08

As part of its continued commitment to transparency, Cleveland Clinic is implementing several measures to enhance patient and general consumer access to timely information.

http://my.clevelandclinic.org/news/2008/cleveland clinic physician disclosures.aspx

INDUSTRY

Subcategory: Big Pharma

Measured Metamorphosis

Susan J. Ainsworth

Chemical & Engineering News

01-Dec-08

Discusses how drug companies are continuing efforts begun last year to cut costs, refocus business units, and craft more acquisitions and alliances to beef up less than robust new product pipelines.

http://pubs.acs.org/cen/coverstory/86/8648cover.html

Subcategory: Bio Pharma

Biotechs Scramble

Lisa Jarvis

Chemical & Engineering News

01-Dec-08

Reports that biotech firms have been resorting to job cuts, reverse mergers, and other creative deal-making to fund their R&D efforts.

http://pubs.acs.org/cen/news/86/i48/8648notw3.html

Subcategory: Educational Issues

Asian Students Top Global Math, Science Study

R & D Magazine

11-Dec-08

Summarizes Trends in International Mathematics and Science Study (TIMSS) of more than 60 participants and 425,000 students assessed. Full report available at: http://timss.bc.edu/TIMSS2007/intl_reports.html http://www.rdmag.com/ShowPR~PUBCODE~014~ACCT~1400000101~ISSUE~0812~RELTY PE~IDN~PRODCODE~00000000~PRODLETT~EY.html

Subcategory: Generics

Drugmaker Delay on Generics Cost EU3 Billion, EU Says

Matthew Newman

Bloomberg

28-Nov-08

European Union regulators accused drugmakers of costing consumers in 17 countries as much as 3 billion euros (\$3.9 billion) by using patent lawsuits and other tactics to keep cheaper generic medicines off the market. http://www.bloomberg.com/apps/news?pid=20601100&sid=acK.out4MFBw&refer=germany

Subcategory: Geographic focus

BioQatar: Luring Biotech Dollars to the Desert

Kevin Davies Bio-IT World

12-Dec-08

With cancer and diabetes as major health problems, Qatar is seeking to attract investors in fundamental and applied research, and technology development.

http://www.bio-itworld.com/news/2008/12/12/BioQatar-symposium-lures-biotech-to-desert.html

Subcategory: Patent/Intellectual Property Issues

Providing Medicines For The Poor

William Schulz

Chemical & Engineering News

01-Dec-08

Reports 2 sides of debate on how the pharmaceutical industry can best

meet the medical needs of impoverished people around the globe: removal of patent protection on some drugs vs. intellectual property rights.

http://pubs.acs.org/cen/business/86/8648bus4.html

INVESTMENTS/ GOV. SUPPORT

Subcategory: Academia/Laboratories

UCL Provost's Venture Prize

University College of London

12-Dec-08

An unconventional new prize, offering academics the freedom to explore paradigm-shifting ideas, has been launched.

http://www.ucl.ac.uk/research/venture-prize/

Subcategory: Energy/Fuel

Taking Pulp to the Pump

Peter Fairley Technology Review

12-Dec-08

Swedish company Chemrec receives a stream of grants and investments backing a process for turning the black liquor left over from pulp and paper bleaching into a clean-burning synthetic biofuel.

http://www.technologyreview.com/energy/21811/?a=f

Subcategory: Federal

Public Funds Back a Growing Number of Innovations

Stephanie Condon

R & D Magazine

03-Dec-08

Trends indicate that more and more commercially successful innovations are backed by federal dollars, say researchers.

http://www.rdmag.com/ShowPR~PUBCODE~014~ACCT~1400000101~ISSUE~0812~RELTY PE~IDN~PRODCODE~00000000~PRODLETT~AB.html

Subcategory: Hospitals/Health Care

HHMI Collaborative Innovation Awards Help Bring Researchers Together to Tackle New Ideas

Howard Hughes Medical Institute

20-Nov-08

A \$10 million pilot program enable eight teams of scientists to devote substantial time and energy to pursuing collaborative, potentially transformative research.

http://www.hhmi.org/news/20081120.html

ORGANIZATIONS

Subcategory: Bio Pharma

Building Integrative Biology at Boehringer Ingelheim

John Russell Bio-IT World 20-Nov-08

Discusses biotherapeutics and integrative biology approaches and systems biology approaches for company's new direction. Focus to be on mmunology and inflammation and on cardiovascular disease.

http://www.bio-itworld.com/BioIT Article.aspx?id=85212

PERSONALIZED MEDICINE

Subcategory: Imaging

Next Generation Sequencing Speeds Personalized Medicine

Douglas Brown, Ph.D Scientific Computing 26-Nov-08

New sequencing technologies are under development that dramatically increase the speed and reduce costs. Table of key developers of genome sequencers and their latest generation of products.

http://www.scientificcomputing.com/Next-Generation-Sequencing-Speeds-Personalized-Medicine.aspx

Subcategory: Oncology

Bringing Personalized Medicine to Cancer Patient

Alissa Poh Bio-IT World 10-Dec-08

Discuses basic hurdles to be overcome for personalized medicine to become more than a castle in the air for cancer research.

http://www.bio-itworld.com/news/2008/12/10/Astrazeneca-roundtable-personalized-medicine-cancer-patients.html

PLATFORM TECHNOLOGIES

Subcategory: Drug Discovery

RNA Interference Inhibits Respiratory Syncytial Virus Replication and Disease Pathogenesis without Inhibiting Priming of the Memory Immune Response

Ralph A. Tripp and

Journal of Virology

01-Dec-08

Wenliang Zhang

Researchers have demonstrated for the first time that RNA interference can be used as a tool in the development of vaccines.

http://jvi.asm.org/cgi/content/abstract/82/24/12221?maxtoshow=&HITS=10&hits=10&RESULTFORMAT=&author1=tripp%2C+R.&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

Subcategory: Evolution Research

Navigating the Nucleosome

Charles Choi The Scientist 01-Dec-08

Uncovering genomic instructions for how DNA is packaged reveals a new dimension of the genetic code. Video.

http://www.the-scientist.com/templates/trackable/display/article1.jsp?type=article&o_url=article/display/55229&id=55229

Subcategory: Geriatrics

Cellular Senescence a Double-Edged Sword: New Study Holds Implications for Aging, Cancer and Evolution

Lynn Yarris

Berkeley Lab

02-Dec-08

Scientists have identified a molecular cause behind the ravages of old age and in doing so have also shown how a natural process for fighting cancer in younger persons can actually promote cancer in older individuals.

http://newscenter.lbl.gov/press-releases/2008/12/02/cellular-senescence/

How Cells Age

Jocelyn Rice

Technology Review

26-Nov-08

Study reveals that the biochemical mechanism that makes yeast grow old has a surprising parallel in mice, suggesting it may be a universal cause of aging in all organisms.

http://www.technologyreview.com/biomedicine/21719/

Subcategory: Imaging

Cancer, Carefully Illuminated

Jennifer Chu

Technology Review

11-Dec-08

Describes a new imaging probe that specifically targets and illuminates tumors, even at the submillimeter scale. Molecular imaging identifies specific molecules that signal disease and using them as beacons to identify early stages of disease.

http://www.technologyreview.com/biomedicine/21800/

Subcategory: Microorganisms

Computation and Genomics Data Drive Bacterial Research into New Golden Age

Professor Mark Buttner

European Science

09-Dec-08

Bacteria are shedding light on fundamental molecular and signalling processes of interest not just within microbiology, but across the whole spectrum of life sciences embracing higher organisms, including plants and vertebrates.

http://www.esf.org/research-areas/physical-and-engineering-sciences/news/ext-news-singleview/article/computation-and-genomics-data-drive-bacterial-research-into-new-goldenage-548.html

Subcategory: Proteomics

Reversing the Conventional DNA Wisdom

Anne Trafton MIT News 04-Dec-08

Researchers have found evidence that two DNA copying machines frequently start from the same site and move in different directions.

http://web.mit.edu/newsoffice/2008/reverse-dna-1204.html

Just a Little Squeeze Lets Proteins Assess DNA

Nancy C. Horton Physorg.com 16-Dec-08

DNA-binding proteins were thought to use full-body hugs for accurate readings of the information coded in the DNA's sequence, but to find its target, a protein just needs a quick squeezes as it moves along the DNA strand, suggests new research.

http://www.physorg.com/news148662760.html

New Research Shows How Gene Function Drives Natural Selection in Important Class of Genetic Elements

Regina Baucoma Physorg.com 12-Dec-08

Researchers thought that most transposons were passive "junk" DNA; however, they have been found to have sudden bursts of activity, dramatically increasing a genome's size.

http://www.physorg.com/pdf148131257.pdf

Subcategory: Tissue Engineering

Production Line for Artificial Skin

Prof. Dr. Heike Mertsching Fraunhofer IGB

01-Dec-08

A fully automated process improves production of artificial tissue: medical scientists can perform transplants with skin produced in the laboratory. Tissue is also suitable for testing chemicals at a low cost without requiring animal experiments.

http://www.igb.fraunhofer.de/WWW/Presse/Jahr/2008/en/PI skin-production.en.html

RESEARCH ADVANCEMENTS

Subcategory: Addiction

Triggering Addiction

Markus Heilig The Scientist 01-Dec-08

Reports that long term neuro-adaptations occur in the alcohol-addicted brain which provide a very different motivation for relapse than the pleasure-seeking response of those who have that genetic susceptibility.

http://www.the-scientist.com/templates/trackable/display/article1.jsp?a_day=1&index=1&year=2008&page=30 &month=12&o_url=2008/12/1/30/1

The Science of Stress

Karen Hopkin The Scientist 01-Nov-08

Discusses the molecular basis of the behavior and compulsion of alcoholism. Brain scans showing long-term changes.

http://www.the-scientist.com/templates/trackable/display/article1.jsp?type=article&o_url=article/display/55118 &id=55118

Subcategory: Cell Therapy

Stem-cell Therapies for Brain More Complicated than Thought

Deborah Helber MIT News 30-Nov-08

Scientists report that adult stem cells produced in the brain are preprogrammed to make only certain kinds of connections, making it impossible for a neural stem cell originating in the brain to be transplanted to the spinal cord, for instance.

http://web.mit.edu/newsoffice/2007/stemcells-1130.html

Subcategory: Genomics

The Discovery of DNA, circa 1869

Ralf Dahm The Scientist 01-Dec-08

Describes how the scientific world first learned about the existence of DNA...in 1871.

http://www.the-scientist.com/article/display/55236/

Subcategory: Immunology/Infectious Diseases

New Research Reveals How Giardia Parasite Changes Its Appearance

Hugo D. Luján Howard Hughes Medical Institute 09-Dec-08

Like a gang of bandits that changes clothes after a heist to avoid capture, the intestinal parasite Giardia lamblia alters its appearance to outwit the human immune system. Discusses how the parasite shifts disguises. http://www.hhmi.org/news/20081209lujan.html

Scripps Research Scientists Identify Blood Component that Turns Bacteria Virulent

Scripps Research Institute 20-Nov-08

Scientists identify bicarbonate, a chemical found in all body fluids and organs that plays a major role in maintaining pH balance in cells, as providing the signal for Bacillus anthracis to unleash virulence factors. http://www.scripps.edu/news/press/112108.html

Subcategory: Metabolism: Obesity, Diabetes

Molecule Shuts Down Food Intake and Turns on "Siesta Mode"

Gerald I. Shulman Howard Hughes Medical Institute 26-Nov-08

Researchers have identified a molecule, a chemical messenger called

NAPE, that tells your brain your stomach is full.

http://www.hhmi.org/news/shulman20081126.html

Subcategory: Oncology

Lactic Acid Found to Fuel Tumors

Duke Med News

20-Nov-08

Researchers found that lactic acid is an important energy source for tumor cells and have discovered a new way to destroy the most hard-tokill, dangerous tumor cells by preventing them from delivering lactic acid.

http://www.dukehealth.org/HealthLibrary/News/lactic acid found to fuel tumors

Melanoma Spawns Tumors with Deadly Efficiency

Sean J. Morrison

Howard Hughes Medical Institute

04-Dec-08

New studies show that at least one of every four melanoma cells has the capacity to seed the development of new tumors. The finding suggests that targeting just a small subset of melanoma cells will not be enough to stop the cancer from growing.

http://www.hhmi.org/news/morrison20081204.html

Precious Metal Could Lead to next Generation of Cancer Treatments

University of Warwick

01-Dec-08

A precious metal, osmium, which has never before been used in a clinical setting is being developed as an anti-cancer agent.

http://www2.warwick.ac.uk/newsandevents/pressreleases/precious metal could/

Researchers Solve Piece of Large-scale Gene Silencing Mystery

Rachel Shulman

Washington University in St. Louis

04-Dec-08

If researchers could harness the silencing machinery involved in nucleolar dominance to limit the expression of rRNA genes, they could potentially slow the growth rate of tumor cells and thereby slow the progression of diseases like cancer.

http://news-info.wustl.edu/tips/page/normal/13073.html?emailID=22171

RESEARCH TOOLS

Subcategory: Computing Systems

Community Proteomics Analysis

Ian Gorton, Christopher S. Oehmen and Jason E.

Scientific Computing

26-Nov-08

McDermott

Proteomics analysis of complex communities is extremely difficult.

Describes how an analysis of a microbial community relied on the

Middleware for Data-Intensive Computing (MeDICi) pipeline to cut the

time-to-solution.

http://www.scientificcomputing.com/Community-Proteomics-Analysis.aspx

Semantic Sense for the Desktop

Erica Naone Technology Review 16-Dec-08

New software, called Nepomuk, can uncover more useful information by focusing on the connections between data; it can locate relevant files if they don't mention the keyword used to search.

http://www.technologyreview.com/computing/21840/?a=f

Supercharged File Sharing

Kurt Kleiner Technology Review 15-Dec-08

File sharing accounts for about 70 percent of all network traffic; Provider Portal for Applications (P4P) reduces file-trading traffic by connecting computers that are nearer and sharing files at the lowest resource cost.

http://www.technologyreview.com/communications/21830/?a=f

Subcategory: Disease Prevention

Study of Ancient and Modern Plagues Finds Common Features

Anne A. Oplinger NIH News 21-Nov-08

Common determinants of disease emergence that transcend time, place and human progress. A better understanding of these determinants is essential for preparing for the next emerging or re-emerging disease.

http://www.nih.gov/news/health/nov2008/niaid-21.htm

Scientists Count Messages Made by a Single Gene

R & D Magazine 05-Dec-08

Describes a technique for looking more precisely at a fundamental step of a cell's life, a gene, DNA, being read into a message, mRNA. Technique could provide a window into the process by which genes are switched on inappropriately, causing disease.

http://www.rdmag.com/ShowPR~PUBCODE~014~ACCT~1400000101~ISSUE~0812~RELTY PE~MIC~PRODCODE~00000000~PRODLETT~BR.html

Subcategory: Genome Sequence

The Day I Had My Genes Tested

James Randerson Guardian 09-Dec-08

DNA analysis for diseases such as cancer and Alzheimer's is growing in popularity, but scientists are doubtful of its value. James Randerson pays £825 to try it.

http://www.guardian.co.uk/lifeandstyle/2008/dec/09/healthandwellbeing-medicalresearch

IBM Reveals Five Innovations That Will Change Our Lives in the Next Five Years

Angela Sullivan IBM 25-Nov-08

Genetic mapping will radically transform healthcare over the next 5

years and allow you to take better care of yourself, IBM predicts. Mapping tells you what health risks you are likely to face in your lifetime, specific things you can do to prevent them.

http://www-03.ibm.com/press/us/en/pressrelease/26170.wss

Subcategory: Imaging

Simultaneous Tracking of Fly Movement and Gene Expression Using GFP

Dhruy Grover, et al.

BMC Biotechnology

16-Dec-08

Demonstrates that GFP (Green Fluorescent Protein) can readily be used to assay longitudinally fly movement and tissue-specific patterns of gene expression.

http://www.biomedcentral.com/1472-6750/8/93/abstract

Subcategory: Mouse/Rat Models

ORNL To Move "Mouse House" Research

Mike Bradley

Oak Ridge National Laboratory

04-Dec-08

The U.S. Department of Energy's (DOE) Oak Ridge National Laboratory is moving its colony of 8,000 mice known as the Collaborative Cross to the University of North Carolina.

http://www.ornl.gov/info/press releases/get press release.cfm?ReleaseNumber=mr20081204-00

THERAPEUTIC CATEGORY

Subcategory: Immunology/Infectious Diseases

Scientists Build 'Roach Motel' for Nasty Bugs of the Bacterial Variety

Aaron Hoover

Infection Control Today

24-Nov-08

Tiny microscopic spheres trap and kill harmful bacteria; could lead to new coatings to disinfect common surfaces, combat bioterrorism or sterilize medical devices, reducing an estimated 1.4 million infection-related deaths each year.

http://www.infectioncontroltoday.com/hotnews/roach-motel-for-bacteria.html

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