

Science.gov: FirstGov for Science

Gail Hodge
CENDI Secretariat/IIa

Federal Depository Library Conference
October 21, 2002

Objective

Provide cross-agency, gateway access to selected, authoritative U.S. government science and technology resources for the science-attentive citizen, including science professionals, students, teachers, business people, and members of the public interested in science

Science.gov Initiative

- An integrated, voluntary cross-agency effort of 14 STI programs in 10 federal agencies
- Supports the Administration's E-Gov objectives, bringing government science and technology closer to citizens
- A FirstGov-designated "Cross Agency Portal" for science
- Provides a public gateway to federal web sites and databases

Science.gov Alliance

- Dept. of Agriculture
- Dept. of Commerce
- Dept. of Defense
- Dept. of Education
- Dept. of Energy
- Dept. of Health and Human Services
- Dept. of Interior
- Environmental Protection Agency
- National Aeronautics and Space Administration
- National Science Foundation
- Support and coordination by CENDI

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connects you to U.S. Government science and technology

http://www.dtic.mil/cendi/

CENDI
Federal STI Managers Group

WELCOME TO THE CENDI WEB SITE

CENDI is an interagency working group of senior Scientific and Technical Information Managers from nine U.S. Federal Agencies.

Commerce
National Technical Information Service (NTIS)

Energy
Office of Scientific and Technical Information (OSTI)
Environmental Protection Agency (EPA)
Office of Environmental Information (OEI)
Office of Research and Development (ORD)

National Aeronautics and Space Administration (NASA)
Scientific and Technical Information Program (STIP)
National Libraries of Agriculture, Education, and Medicine

Defense
Defense Technical Information Center (DTIC)

Interior
USGS/Biological Resources Discipline (USGS/BRD)

The CENDI web site is hosted by the Defense Technical Information Center (DTIC), and is maintained by the CENDI secretariat. You may send your comments to the [webmaster](#).

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Guiding Principles

- Provide simple, integrated access to web sites and database content
- Use currently available content
- Provide selected, useful information and a high quality site
- Focus on customers - conducted formal usability testing as part of development

Access to Government Science Web Sites

- 1100+ selected web sites selected and cataloged by agency content managers and NTIS
- Organized for browsing under one or more of 12 topics and 175 sub-topics
- Free-text searching based on text of selected web sites and linked sites (to one level) provided by USGS

Access to Invisible Web Databases

- 30 databases that are generally not accessible to web search engines
- Special invisible web searching developed for science.gov by DOE/OSTI
- Single search interface for web sites and databases

Science.gov Phase 1

- Created Core Policy Team, Technical Design Team
- Agreed on goals, policies, designs
- Created taxonomy for browse categories
- Selected, cataloged and indexed agency resources
- Won 2 of 7 CIO Cross-Agency Portal 2000 grants
- Alliance co-chairs participate in Firstgov meetings



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Science.gov enables you to search two kinds of information - selected Web sites and the databases listed below of technical reports, journal articles and other published materials. These can be searched simultaneously or separately.

Select the number of records to retrieve from each choice:

Enter search terms:

Search capabilities provided by [DOE/OSTI](#) and [USGS](#)

Choose up to 10 resources to search:

[Science.gov Web Sites](#) - Selected Web Sites

Agriculture, Food, and Nutrition

[AGRICOLA](#) - References to agricultural literature from the National Agricultural Library

[Agriculture Technology Transfer Automated Retrieval System](#) - Summaries of selected recent Department of Agriculture supported research results

[FDA Food Safety and Applied Nutrition](#) - Current news and information on food safety programs

Biology and Nature

[Integrated Taxonomic Information System](#) - Authoritative information from the USDA on plants, animals, fungi, and microbes of North America and the world

Defense Science and Technology

[DefenseLINK](#) - Defense Department current and archived military sciences information

[STINET Report Collection](#) - Defense Technical Information Center unclassified documents and citations

Energy and Environment

[DOE Alternative Fuels Data Center](#) - Information on alternative fuels and vehicles

[DOE Information Bridge](#) - Citations to and full text of research report literature

[Energy Citations Database](#) - Citations to DOE's energy related information since 1948

[EPA Environmental Information Management System - EIMS](#) - a repository for scientific data and documentation

[EPA Office of Pesticide Programs](#) - a comprehensive resource including fact sheets, consumer alerts, regulations

[EPA Reports - NEPIS](#) - National Environmental Publications Internet Site (NEPIS) archival and current EPA documents online

[USGS Water Resource Reports](#) - Technical Reports on water resources

Health and Medicine

[Biologics Evaluation and Research](#) - Blood, vaccines, therapeutics and related products information from the FDA

[ClinicalTrials.gov](#) - Current information from NLM on clinical research studies

[Drug Evaluation and Research](#) - Drug evaluation information from the FDA

[MEDLINEplus Health Information](#) - Consumer health information from National Library of Medicine

[PubMed](#) - Citations by the National Library of Medicine to the results of biomedical research

Science Studies and Statistics

[ERIC Database](#) - Department of Education abstracts on education research and practice

[NSF Publications](#) - Documents in the National Science Foundation collection

Space

[NASA Astrophysics Data System](#) - Abstracts of astronomy, physics, astrophysics, instrumentation and related literature

[NASA CASI Technical Reports](#) - Citations to aerospace documents, articles and conferences

[NASA SpaceLink](#) - Aeronautics and space resources for education

Technology

[NST Publications](#) - Recent and forthcoming publications from the National Institute of Standards and Technology

[Smart Communities Network](#) - Organizations and government agencies active in sustainable development technologies

[U.S. Patent Server](#) - Web site of the U.S. Patent and Trademark Office




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Documents from Science.gov Web Sites (10 out of 111):

1. [ANTHRAX VACCINE IMMUNIZATION PROGRAM - The Official DoD Anthrax Information Web Site](#)
The Official DoD Anthrax Vaccine Immunization Program (AVIP) Web Site. Your definitive source for information about anthrax - the disease, the threat, the safety and ...
2. [CBER - Anthrax Information](#)
CBER - Anthrax Information
3. [Anthrax](#)
Veterinary Services November 2001 Anthrax, a disease of mammals and humans, is caused by a spore-forming bacterium called Bacillus anthracis. Anthrax has an almost worldwide distribution and is ...
4. [Education Toolkit](#)
This sections contains information and education tools to assist teaching about anthrax, anthrax vaccine, and DoD's Anthrax Vaccine Immunization Program.
5. [NIP: Anthrax/home page](#)
Anthrax home page
6. [Guidelines for Pregnant Women Who Have Been Exposed to Anthrax But Do Not Have Symptoms, ...](#)
Birth defects are the leading cause of infant mortality in the United States, accounting for more than 20% of all infant deaths. Of about 120,000 U.S. ...
7. [Possible reactions to anthrax vaccine](#)
This section provides information about possible reactions to anthrax vaccine, as well as information about the Food and Drug Administration (FDA) and Centers for Disease Control and ...
8. [The Disease Anthrax](#)
About the disease anthrax...
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Documents from AGRICOLA Articles Database (10 out of 351):

11. [Diseases affecting bison](#)
Broughton, E.
12. [Influence of body weight on response of](#)
Ivins, B.E.
13. [Host records and biological notes for two](#)
Minckley, R.L.
14. [Anthrax](#)
Ferguson, L.C.
15. [Anthrax](#)
Hunter, L.
16. [An outbreak of anthrax in pigs: a](#)
Edginton, A.B.
17. [Aspects of the epidemiology of anthrax in](#)
Gainer, R.S.
18. [Feeding habits and flight range of](#)
Braack, L.E.O.
19. [Construction and characterization of a](#)
Cataldi, A.
20. [Anthrax in wildlife in the Luangwa Valley..](#)
Turnbull, P.C.B.











Documents from AGRICOLA Books Database (10 out of 181):

21. [Untersuchungen über die Anwendung von Ozon.](#)
Worner, Roland,
22. [Vorkommen und Epidemiologie tierischer](#)
Scherbaum, Otto,
23. [Revision of New World species of Anthrax](#)
Marston, Norman.
24. [Discovery of a case of anthrax through](#)
Voelker, H.
25. [Sibirskaia iazva /](#)
Korotich, Aleksei Stepanovich.
26. [Effect of vaccines against anthrax.](#)
Yusupov, O. Yu.
27. [The study of the combined vaccine against](#)
28. [Sibirskaia iazva /](#)
29. [Sibirskaia iazva zivotnykh : ukazatel.](#)
30. [Les maladies charbonneuses en Tunisie :](#)
Chtourou, Adnen,










Documents from the Integrated Taxonomic Information System (10):

31. [Anthrax](#)
-- valid
32. [Anthrax adumbrata](#)
Coquillett, 1887 -- invalid
33. [Anthrax adusta](#)
Loew, 1869 -- invalid
34. [Anthrax aenea](#)
Coquillett, 1887 -- invalid
35. [Anthrax agrestis](#)
Coquillett, 1887 -- invalid
36. [Anthrax agrippina](#)
Osten Sacken, 1887 -- invalid
37. [Anthrax alcyon](#)
Say, 1824 -- invalid
38. [Anthrax alpha](#)
Osten Sacken, 1877 -- invalid
39. [Anthrax alta](#)
Tucker, 1907 -- invalid
40. [Anthrax analis](#)
Say, 1823 -- valid

Documents from DefenseLINK Web Site (10 out of 522):

41.  [2001 CBOP Annual Report & Performance Plan](#)
http://www.defenselink.mil/pubs/chem_bio_def_program/2001_CBOP_Annual_Report.pdf
 (Large: 1107612 bytes)
 103- 16D) the Secretary of Defense is required to submit an annual report to Congress on chemical and biological (CB) defense. Annexes A through D provide detailed information on Joint and Service- unique NBC defense equipment, including conta
42.  [2000 D&G Annual Report to Congress](#)
<http://www.defenselink.mil/pubs/chembio/2000D&G.pdf>
 (Large: 460408 bytes)
 103- 16D, Section 1703 (50 USC 1522), mandates the coordination and integration of all Department of Defense chemical and biological (CB) defense programs. This report contains modernization plan summaries that highlight the Department's approach to im
43.  [Prepared Testimony on Anthrax Vaccination Immunization Program, Submitted To Senate Armed Services Committee](#)
<http://www.defenselink.mil/speeches/2000/20000413-depscedef.html>
 news
 vi Quad-fold information sheets individually tailored for Service Members, Family Members and Civilians. DOD has provided each Service Member receiving the vaccine with printed silent training aides since administering the first doses in March 1998. Anthr
44.  [DefenseLINK News: Anthrax Vaccine Contract Briefing](#)
http://www.defenselink.mil/news/Aug1999/08051999_0805ant.html
 news
 Q. Did (inaudible) the program part of the problem here with... Mr. Bacon. We're going to do it this way, and there will be future opportunities to talk about that. Let me just, again -- for the benefit here... Q. There's just nobody else in the Unite
45.  [DefenseLINK News: Iraq Chemical and Biological Weapons Capability](#)
http://www.defenselink.mil/news/Nov1997/11171997_1114raaq.html
 news
 Q. Are you talking about anthrax or a combination... Q. In terms of sites or locations where these agents and other agents or weapons of mass destruction may be in development, production or stored, are we talking about a very small number of sites centr
46.  [34665_41.fm6](#)
<http://www.defenselink.mil/pubs/20010110.pdf>
 (Large: 504460 bytes)
 For area file: North Korea is building and selling long- range missiles, has chemical and biological warfare capabilities, and may have diverted fissile material for nuclear weapons. Iran, with foreign assistance, is buying and developing longer- range mis
47.  [DefenseLINK News: Update of Defense Department's on-going Anthrax Vaccine Immunization Program](#)
http://www.defenselink.mil/news/Aug1998/08171998_0814etr.html
 news
 Last spring, we started vaccinating troops against anthrax in the Gulf. Next week, we're going to start with the total force vaccination program. Today, Dr. Sue Bailey, the Assistant Secretary of Defense for Health Affairs will bring you up to date on th
48.  [http://www.defenselink.mil/dodg/frs/docs/PublicLaw106398.pdf](#)
<http://www.defenselink.mil/dodg/frs/docs/PublicLaw106398.pdf>
 (Large: 1514622 bytes)
 AE*Public Law 106 398 106th Congress An Act To authorize appropriations for fiscal year 2001 for military activities of the Department of Defense, for military construction, and for defense activities of the Department of Energy, to prescribe personnel s...
49.  [http://www.defenselink.mil/dodg/frs/docs/PublicLaw106398.txt](#)
<http://www.defenselink.mil/dodg/frs/docs/PublicLaw106398.txt>
 (Large: 1700574 bytes)
 Inclusion of additional information in reports to Congress required before conversion of commercial or industrial type functions to contractor performance. [Page 114 STAT. 1654A-5]] Sec. 362. Assistance to local educational agencies that benefit depende...
50.  [DoD News- Special Briefing on the Anthrax Vaccine Program](#)
http://www.defenselink.mil/news/Jun2002/06292002_0629vew.html
 news
 Q. How many people will be vaccinated, receive vaccinations under the program? Winkenwerder: Yes, sir? THIS TRANSCRIPT WAS PREPARED BY THE FEDERAL NEWS SERVICE INC., WASHINGTON, D.C. FEDERAL NEWS SERVICE IS A PRIVATE COMPANY. FOR OTHER DEFENSE RELATED T

Documents from DOE Information Bridge (10 out of 39):

51.  [Defense Technical Information Center thesaurus](#)
 46783K
 Dickert, J.H. ; 1996 Oct 01
52.  [Rational Solutions for Challenges of the New Millennium](#)
 15198K
 Gover, J. ; 1998 Aug 01
53.  [ARAC: A unique command and control resource](#)
 1537K
 Bradley, M.M. ; 1996 Apr 01
54.  [Modeling Dispersion of Chemical-Biological Agents in Three Dimensional Living Space](#)
 0K
 William S. Winters ; 2002 Feb 01
55.  [Optical Communication System for Remote Monitoring and Adaptive Control of Distributed Ground Sensors Exhibiting Collective Intelligence](#)
 7614K
 Cameron, S.M. ; 1998 Nov 01
56.  [Interim Report on Lessons Learned from Decontamination Experiences](#)
 6649K
 Sorensen, J.H. ; 2000 Nov 01
57.  [LABORATORY DIRECTED RESEARCH AND DEVELOPMENT ANNUAL REPORT TO THE DOE - DECEMBER 2001.](#)
 14827K
 FOX,K.J. ; 2001 Dec 01
58.  [Biomedical engineering research at DOE national labs](#)
 0K
 None ; 1999 Mar 01
59.  [Oak Ridge National Laboratory REVIEW, Vol. 34, No. 1, 2001](#)
 0K
 Krause, C. ; 2001 Nov 14
60.  [Public problems: Still waiting on the marketplace for solutions](#)
 4464K
 Gover, J. ; 1997 Oct 01

Documents from MEDLINEplus Health Information Web Site(10 out of 48):

61. [MEDLINEplus Anthrax](#)
 ... ; P Q R S T U V W XYZ List of All Topics **Anthrax** Contents of this page. News General/Overviews Alternative Therapy Clinical Trials
 Diagnosis/Symptoms Pictures/Diagrams
<http://www.nlm.nih.gov/medlineplus/anthrax.html> 09/11/02
62. [MEDLINEplus Tutorials: Anthrax](#)
<http://www.nlm.nih.gov/medlineplus/tutorials/anthraxloader.html> 09/08/02
63. [MEDLINEplus Medical Encyclopedia: Medical Encyclopedia: Anthrax](#)
<http://www.nlm.nih.gov/medlineplus/ency/article/001325.htm> 09/06/02
64. [MEDLINEplus Medical Encyclopedia: Medical Encyclopedia: Inhalation anthrax](#)
<http://www.nlm.nih.gov/medlineplus/ency/article/000641.htm> 09/06/02
65. [MEDLINEplus Study Uncovers Some of the Tricks of Anthrax](#)
 ... and hospitals Other Resources: organizations, libraries, publications, MEDLINE Reuters Health Information Study Uncovers Some of the Tricks of
Anthrax Reuters Health Thursday, August 29, 2002 NEW YORK (Reuters Health) - California researchers have discovered how the inhaled form of
anthrax evades the ...
http://www.nlm.nih.gov/medlineplus/news/fullstory_9168.html 09/11/02
66. [MEDLINEplus Bacteria-killing enzyme can detect and destroy anthrax, new study reports](#)
 ... ; doctors, dentists and hospitals Other Resources: organizations, libraries, publications, MEDLINE Bacteria-killing enzyme can detect and destroy
anthrax, new study reports Associated Press By WILLIAM McCALL Associated Press Writer Wednesday, August 21, 2002 PORTLAND, Oregon (AP) -
 A bacteria-killing ...
http://www.nlm.nih.gov/medlineplus/news/fullstory_9033.html 09/11/02
67. [MEDLINEplus Medical Encyclopedia: Medical Encyclopedia: Cutaneous anthrax](#)
<http://www.nlm.nih.gov/medlineplus/ency/article/000600.htm> 09/06/02
68. [MEDLINEplus News by Topic beginning with A](#)
http://www.nlm.nih.gov/medlineplus/alphaneews_a.html 09/11/02
69. [MEDLINEplus Medical Encyclopedia: MEDLINEplus Medical Encyclopedia: Cutaneous Anthrax](#)
 ... terms Directories: doctors, dentists and hospitals Other Resources: organizations, libraries, publications, MEDLINE Medical Encyclopedia
 Cutaneous **Anthrax** Cutaneous **anthrax** is an infection of the skin caused by the bacterium *Bacillus anthracis*. The bacteria
 causes disease when ...
<http://www.nlm.nih.gov/medlineplus/ency/imagepage/19057.htm> 09/06/02
70. [MEDLINEplus Medical Encyclopedia: MEDLINEplus Medical Encyclopedia: Inhalation Anthrax](#)
 ... terms Directories: doctors, dentists and hospitals Other Resources: organizations, libraries, publications, MEDLINE Medical Encyclopedia
 Inhalation **Anthrax** Inhalation **anthrax** Inhaled **anthrax** is particularly deadly. Although the spores are dormant when breathed in, they germinate when
 exposed to a warm ...
<http://www.nlm.nih.gov/medlineplus/ency/imagepage/19057.htm> 09/06/02

Documents from PubMed Database (10 out of 1906):

71. [Effect of Bacillus anthracis lethal toxin on human peripheral blood mononuclear cells.](#)
 Popov S, Villasmil R, Demardi J, Grene E, Cardwell J, Popova T, Wu A, Alibek D, Bailey C, Alibek K.
 FEBS Lett. 2002 Sep 11;527(1-3):211.
 PMID: 12220662 [PubMed - in process]
72. [GI Anthrax: report of one case confirmed with autopsy.](#)
 Mansour-Chanaei F, Zareh S, Salimi A.
 Med Sci Monit. 2002 Sep;8(9):CS73-6.
 PMID: 12218960 [PubMed - in process]
73. [The alveolar macrophage: the Trojan horse of Bacillus anthracis.](#)
 Guidi-Rontani C.
 Trends Microbiol. 2002 Sep;10(9):405.
 PMID: 12217505 [PubMed - in process]
74. [CONFRONTING TERRORISM: One Year After, Hunt for NIH Funds Fosters Collaboration.](#)
 Ensenck M.
 Science. 2002 Sep 6;297(5607):1630-1.
 PMID: 12215622 [PubMed - in process]
75. [Mapping of antibody responses to the protective antigen of Bacillus anthracis by flow cytometric analysis.](#)
 Reed DS, Smoll J, Gibbs P, Little SF.
 Cytometry. 2002 Sep 1;49(1):1-7.
 PMID: 12210604 [PubMed - in process]
76. [A spotlight on anthrax.](#)
 Hart C, Beeching N.
 Clin Dermatol. 2002 Jul-Aug;20(4):365. No abstract available.
 PMID: 12208624 [PubMed - in process]
77. [The story of anthrax from antiquity to the present: a biological weapon of nature and humans.](#)
 Witkowski J, Parish L.
 Clin Dermatol. 2002 Jul-Aug;20(4):336. No abstract available.
78. [Gln277 and Phe554 residues are involved in thermal inactivation of protective antigen of Bacillus anthracis.](#)
 Singh S, Ahuja N, Chauhan V, Rajasekaran E, Mohsin Waheed S, Bhat R, Bhatnagar R.
 Biochem Biophys Res Commun. 2002 Sep 6;296(5):1058.
 PMID: 12207879 [PubMed - in process]
79. [Macrophage Apoptosis by Anthrax Lethal Factor Through p38 MAP Kinase Inhibition.](#)
 Park JM, Greten FR, Li ZW, Karin M.
 Science. 2002 Aug 29 [epub ahead of print].
 PMID: 12202685 [PubMed - as supplied by publisher]
80. [A short history of biological warfare.](#)
 Macaluso M








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Documents from US Patent Server Database (10 out of 335):

81. [Testis expressed polypeptide](#)
82. [Nucleotide sequences for detection of Bacillus anthracis](#)
83. [Smart aerogel](#)
84. [Vanilloid receptor-2](#)
85. [Derivatives of erythromycin, their preparation process and their use as medicaments](#)
86. [Integrated fluid manipulation cartridge](#)
87. [Quaternary ammonium functionalized dendrimers and methods of use therefor](#)
88. [Inhibitors of anthrax lethal factor activity](#)
89. [Isolated nucleic acid molecules encoding human protease proteins, and uses thereof](#)
90. [Erythromycin derivatives, a process for their preparation and their use as medicaments](#)

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Anthrax

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Latest News

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- [Anthrax](#) (09/04/2002, Centers for Disease Control and Prevention)
- [Study Uncovers Some of the Tricks of Anthrax](#) (08/29/2002, Reuters Health)
- [Molecular Mechanism Underlying Anthrax Infection Described by NIEHS-funded Researchers](#) (08/29/2002, National Institute of Environmental Health Sciences)
- [Bacteria-killing Enzyme Can Detect and Destroy Anthrax, New Study Reports](#) (08/21/2002, Associated Press)

General/Overviews

- [Anthrax Interactive Tutorial](#) (Patient Education Institute) - requires Flash plug-in
- [Anthrax: Frequently Asked Questions](#) (National Center for Infectious Diseases)

Also available in: [Search](#)

- [FAQ'S about Anthrax](#) (Centers for Disease Control and Prevention)
- [What is Anthrax?](#) (Nemours Foundation)

Alternative Therapy

- [Dietary Supplements Claiming to Prevent or Treat Anthrax](#) (Food and Drug Administration)

Clinical Trials

- [ClinicalTrials.gov: Anthrax](#) (National Institutes of Health)

Diagnosis/Symptoms



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Anthrax

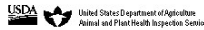
Taxonomic Serial No.: 135115

Taxonomy and Nomenclature

Kingdom:	Animalia
Taxonomic Rank:	Genus
Synonym(s):	
Common Name(s):	
Taxonomic Status:	
Current Standing:	valid
Taxonomic Credibility Rating:	not reviewed
Taxonomic Completeness Rating:	unknown
Currency Rating:	unknown

Taxonomic Hierarchy

Kingdom	Animalia -- animals
Phylum	Arthropoda -- arthropods
Subphylum	Hexapoda
Class	Insecta -- insects
Subclass	Pterygota -- winged insects
Superorder	Neoptera
Order	Diptera
Suborder	Brachycera -- circular-seamed flies, muscoid flies, short-horned flies
Infraorder	Muscomorpha
Family	Bombyliidae -- bee flies
Subfamily	Anthracinae
Tribe	Anthracini
Genus	Anthrax



Anthrax

Veterinary Services
November 2001

Anthrax, a disease of mammals and humans, is caused by a spore-forming bacterium called *Bacillus anthracis*. Anthrax has an almost worldwide distribution and is a zoonotic disease, meaning it may spread from animals to humans. All mammals appear to be susceptible to anthrax to some degree, but ruminants such as cattle, sheep, and goats are the most susceptible and commonly affected, followed by horses, and then swine.

The U.S. Department of Agriculture (USDA) main diagnostics laboratory in Ames, Iowa, the National Veterinary Services Laboratories (NVSL), maintains small quantities of anthrax to use as reference material in making confirmatory anthrax diagnoses in animals. USDA's Animal and Plant Health Inspection Service (APHIS) maintains that laboratory as part of fulfilling its mission to protect American agriculture.

Disease Epidemiology

Anthrax is endemic to the United States, occurring sporadically throughout the country as environmental conditions allow. The Del Rio, Texas, region has reported ongoing outbreaks of anthrax in deer and livestock this summer. The most recent outbreak there occurred on Sept. 21, 2001. Other recent outbreaks include an outbreak in cattle and horses in Minnesota in June-July 2000, in cattle, horses, and bison in North Dakota in August 2000, and in cattle in Nebraska in

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United States Patent 6,448,016
 Rastogi, et al. September 10, 2002

Nucleotide sequences for detection of Bacillus anthracis

Abstract

The invention provides purified and isolated DNA fragments from Bacillus anthracis chromosomal DNA, primer sets and probes derived therefrom, as well as kits and detection methods for B. anthracis. The methods of the invention provide for specific detection of *anthrax* over closely related strains of Bacillus, as well as accurate detection of low numbers of B. anthracis in an environmental sample containing large amounts of non-specific DNA. The invention is applicable to food, health care, and military applications.

Inventors: **Rastogi, Vipin K.** (Bel Air, MD); **Cheng, Tu-Chen** (Timonson, MD)
 Assignee: **The United States of America as represented by the Secretary of the Army** (Washington, DC)
 Appl No.: **879027**
 Filed: **June 12, 2001**

Current U.S. Class: 435/6, 435/91 2; 536/23 1; 536/23 7; 536/24 32; 536/24 33
Intern'l Class: C12Q 001/68; C07H 021/04; C12P 019/34
Field of Search: 435/6 91 2 810 536/23 1 23 7 24 32 24 33

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<p>Agriculture & Food Food Safety, Gardening, Pesticides, Veterinary Science ...</p> <p>Applied Science & Technologies Biotechnology, Electronics, Engineering, Transport ...</p> <p>Astronomy & Space Exploration, Planets, Space Technologies ...</p> <p>Biology & Nature Animals & Plants, Ecology, Genetics, Pest Control ...</p> <p>Computers & Communication Networks, Hardware, Software ...</p> <p>Earth & Ocean Sciences Land, Maps, Natural Disasters, Oceans, Weather ...</p>	<p>Energy & Energy Conservation Energy Use, Fossil Fuel, Solar, Wind ...</p> <p>Environment & Environmental Quality Air/Water/Noise Quality, Cleanup, Climate Change ...</p> <p>Health & Medicine Disease, Health Care, Nutrition, Mental Health ...</p> <p>Math, Physics, & Chemistry Astrophysics, Chemicals, Mathematical Modeling ...</p> <p>Natural Resources & Conservation Ecosystems, Energy Resources, Forestry, Mining ...</p> <p>Science Education Homework Help, Teaching Aids ... All Topics</p>
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Featured Web Sites

Children's Environmental Health & Safety MEDLINEplus Health Information	NASA SciTechResources	Climate Information Services Portal Global Change
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Narrower topics:

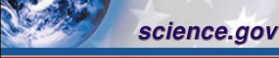

Agricultural Facilities and Equipment	Food Safety
Agricultural Waste	Food Science and Technology
Animal Husbandry and Veterinary Science	Pesticides, Insecticides, and Herbicides
Fisheries and Aquaculture	Plant Production, Agronomy, Gardening, and Horticulture

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [I](#) [J](#) [M](#) [N](#) [S](#) [T](#) [U](#)

A:

- [AGRICOLA \(AGRICultural OnLine Access\)](#) - Search a bibliographic database of citations to the agricultural literature [Department of Agriculture (USDA), Agriculture Research Service (ARS), National Agricultural Library (NAL)]
- [AGROS Agricultural Research Data Directory](#) - Search for data from USDA funded research, including soil, crop and plant, forest, rangeland, animal sciences, and other natural resource research areas, as well as economics, population, and food safety [Department of Agriculture (USDA), Agriculture Research Service (ARS), National Agricultural Library (NAL)]
- [About FRS Subject Specialists](#) - Alphabetical listing by subject of USDA's Economic Research Service staff, includes contact information [Department of Agriculture (USDA), Economic Research Service (ERS)]
- [Aerial Photography Field Office \(AFPO\) of the Farm Service Agency](#) - Access to more than 10,000,000 images [Department of Agriculture (USDA), Farm and Foreign Agriculture Services]
- [Agricultural Research Service \(ARS\) Research Programs](#) - Search for ongoing research, publications, patents for licensing, and news [Department of Agriculture (USDA), Agriculture Research Service (ARS)]
- [Agricultural Research Service Photo Gallery](#) - Images on laboratory research, plants, animals, crops, education, insects, fruits and veggies, and field research [Department of Agriculture (USDA), Agriculture Research Service (ARS)]
- [Agriculture Network Information Center \(AgNIC\)](#) - Guide to quality agricultural information [Department of Agriculture (USDA), Agriculture Research Service (ARS), National Agricultural Library (NAL)]
- [Agriculture Research Service Office of Technology Transfer](#) - [Department of Agriculture (USDA), Agriculture Research Service (ARS)]

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[B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [I](#) [M](#) [N](#) [P](#) [S](#) [W](#)

B:

[Bad Bug Book](#) - Provides basic facts regarding foodborne pathogenic microorganisms and natural toxins [Department of Health and Human Services (HHS), Food and Drug Administration (FDA), Center for Food Safety and Applied Nutrition (CFSAN)]

[Beltsville Human Nutrition Research Center \(BHNRC\)](#) - Defines, through research, the role of foods and its components in optimizing human health and reducing the risk of nutritionally related disorders in the diverse population [Department of Agriculture (USDA), Agriculture Research Service (ARS), Beltsville Agricultural Research Center (BARC)]

C:

[Center for Food Safety and Applied Nutrition \(CFSAN\)](#) - Information on safety in the food supply system [Department of Health and Human Services (HHS), Food and Drug Administration (FDA)]

D:

[Dietary Supplements](#) - Information from the FDA on these supplements [Department of Health and Human Services (HHS), Food and Drug Administration (FDA), Center for Food Safety and Applied Nutrition (CFSAN)]

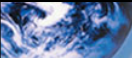

[Dietary Supplements](#) - Search for completed and ongoing research [Department of Health and Human Services (HHS), National Inst. of Health (NIH)]

F:

[FDA Kids Home Page](#) - [Department of Health and Human Services (HHS), Food and Drug Administration (FDA)]

[Food Safety Research Information Office](#) - Search a database of current food safety research projects as well as food safety reports and news [Department of Agriculture (USDA), Agriculture Research Service (ARS), National Agricultural Library (NAL)]

[Food and Nutrition Information Center \(FNIC\)](#) - Search key information resources [Department of Agriculture (USDA), Agriculture Research Service (ARS)]

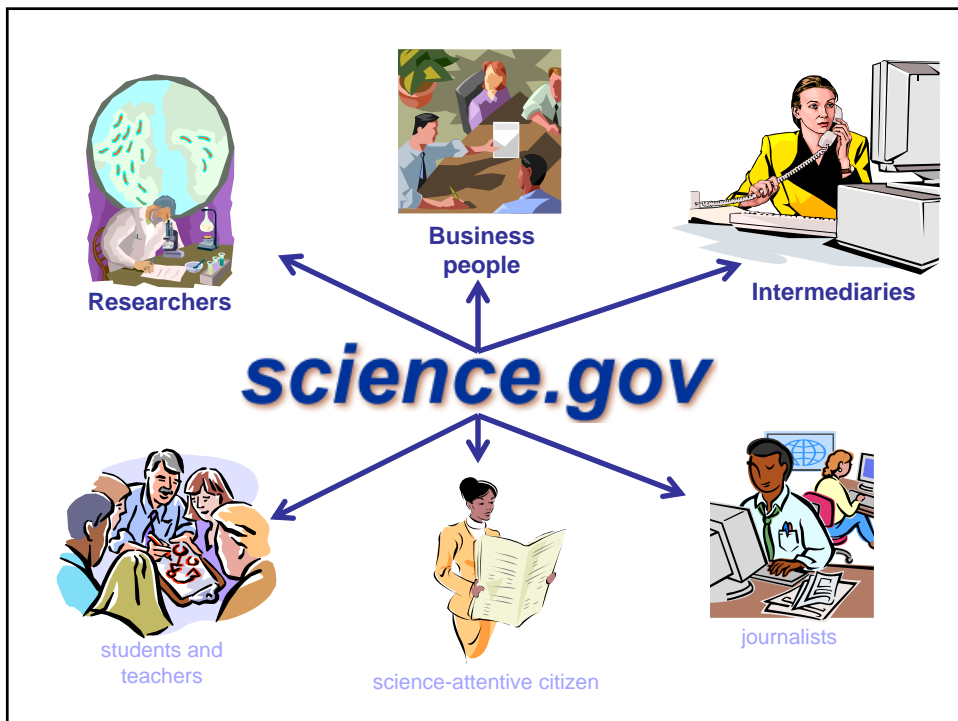
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Challenges

- Broad scope of federal R&D in science and technology
- Wide ranging interests of the potential audience
- Taxonomy issues given the broad scope and audience
- Blending resources from different agencies into cohesive functionality and page design
- Resources, funding and sustainability

What's Next?

- Launch officially in the next few months
- Continue adding content
- Formal selection and cataloging guidelines
- Review the taxonomy
- Link to other Firstgov portals such as kids.gov
- Add members to the Alliance
- Develop support and sustaining resources



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