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volume 8 • number 6 • December 15th, 2015 Newsletter

National Technical Reports Library

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Genetic Engineering

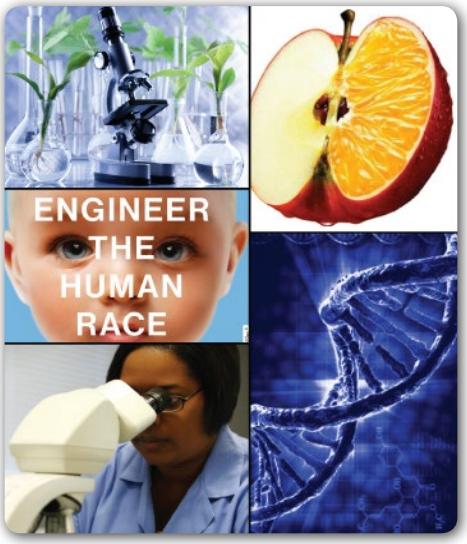
ADA181335
Molecular Biology: Conference on Genetic Engineering Techniques (2nd) Held in London (United Kingdom) on 20-21 November 1986.
Office of Naval Research, London (England).
1987, 30p
ONRL-7-009-C
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology)
57E (Clinical Medicine)
Keywords: Genetic engineering, Molecular biology, Symposia.

ADA175563
Statistical Computing and Genetic Engineering.
Georgia Univ., Athens. Dept. of Genetics.
1986, 5p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology)
Keywords: *Genetic engineering, *Mathematical models, Deoxyribonucleic acids.

ADA201097
Genetic Engineering of 'Clostridium difficile' Toxin A Vaccine.
Spelman College, Atlanta, GA.
1998, 21p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology)
57Q (Pharmacology & Pharmacological Chemistry)
Keywords: Deoxyribonucleic acids, Genetic engineering, Vaccines.

ADA210332
Genetic Engineering of Single-Domain Magnetic Particles.
SRI International, Menlo Park, CA. Molecular Biology Dept.
1989, 5p
Related Categories/Subcategories
57K (Microbiology)
57F (Cytology, Genetics, & Molecular Biology)
Keywords: Bacteria, Genetic engineering, Magnetic fields.

ADA246249
Genetic Engineering of a Type II DHFR.
Rice Univ., Houston, TX. Dept. of Biochemistry and Cell Biology.
1991, 36p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology)
Keywords: Genetic engineering, Dehydrogenases, Dialysis, Enzymes.



ADA266433
Biotechnology and Genetic Engineering Reviews. Volume 10.
Letterman Army Inst. of Research, Presidio of San Francisco, CA.
1992, 56p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology)
57K (Microbiology)
Keywords: Biotechnology, Genetic engineering, Periodicals.

ADA309697
Genetic Engineering to Enhance Microbial Interference and Related Therapeutic Applications.
Naval Medical Research Inst., Bethesda, MD.
1996, 5p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology)
57K (Microbiology)
Keywords: Genetic engineering, Biotechnology, Fungus diseases.

Newsletter
National Technical Reports Library

Purpose: To bring you a sampling of the latest documents added to the NTIS Database and to help you gain a greater understanding of the wealth of scitech information available from the National Technical Information Service.

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ADA313717
Genetic Engineering of Polymers Containing Non-Natural Amino Acids.
Massachusetts Univ., Amherst. Dept. of Polymer Science and Engineering.
1996, 6p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology)
99F (Physical & Theoretical Chemistry)
99C (Polymer Chemistry)
Keywords: Polymers, Genetic engineering, Amino acids.

ADA386808
Use of Genetic Engineering to Produce a Mutated Cytochrome P450 Enzyme Capable of Both Oxidizing and Reductively Dechlorinating Hazardous Organic Chemicals.
Tulane Univ., New Orleans, LA. Dept. of Chemistry.
2000, 5p
Related Categories/Subcategories
57B (Biochemistry),
57F (Cytology, Genetics, & Molecular Biology)
Keywords: Enzymes, Genetic engineering, Bacteria, Bacillus.

ADA391074
Genetic Engineering of Artificial Proteins Containing Non-Natural Amino Acids.
California Inst. of Tech., Pasadena. Div. of Chemistry and Chemical Engineering.
2001, 7p
Related Categories/Subcategories
57B (Biochemistry)
57F (Cytology, Genetics, & Molecular Biology)
Keywords: Proteins, Genetic engineering, Stability, Bacteria.

Key to Database Fields Used

The following NTIS database fields are used in this short listing of recently acquired technical reports.

- **NTIS Order Number**
- **Title**
- **Source**
- **Report Year, Page Count**
- **Report Number/ISBN13** (if available)
- **Related Categories/Sub-categories** (where the document is also indexed)
- **Keywords**

RSS Feeds are available in your choice of NTIS Subject Category. For information use the RSS link on the NTIS Homepage and look for the Category RSS Feeds button.

ADA447681
Advances in Biotechnology and Genetic Engineering: Implications for the Development of New Biological Warfare Agents.
Office of the Deputy Assistant Secretary of Defense for Chemical and Biological Defense, Washington, DC.
1996, 30p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology),
74D (Chemical, Biological, & Radiological Warfare)
Keywords: Genetic engineering, Biotechnology, *Biological warfare agents.

ADA468243
Next Generation Bioweapons: The Technology of Genetic Engineering Applied to Biowarfare and Bioterrorism.
Air Univ., Maxwell AFB, AL.
2002, 49p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology),
74D (Chemical, Biological, & Radiological Warfare)
Keywords: Genetic engineering, Biotechnology, Biological warfare agents.

ADA585644
Use of Bioresorbable Hydrogels and Genetic Engineering to Accomplish Rapid Stabilization and Healing in Segmental Long Bone Defects.
Baylor Coll. of Medicine, Houston, TX.
2013, 65p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology)
57A (Anatomy)
57S (Physiology)
99F (Physical & Theoretical Chemistry)
46E (Structural Mechanics)
Keywords: Bones, Defects(Materials), Gels, Genetic engineering.

ADA601596
Potential of Genetic Engineering in Agriculture to Affect Global Stability.
Marine Corps Univ., Quantico, VA. Command and Staff Coll.
2013, 33p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology)
57L (Nutrition)
98H (Food Technology)
Keywords: Agriculture, Genetic engineering, Environmental impact.

DE00013705
Genetic engineering of a radiation-resistant bacterium for biodegradation of mixed wastes. 1998 annual progress report.
USDOE Office of Environmental Management (EM) (United States).
1998, 4p
Related Categories/Subcategories
57K (Microbiology)
77G (Radioactive Wastes & Radioactivity)
77F (Radiation Shielding, Protection, & Safety)
41 (Manufacturing Technology)
Keywords: Microorganisms, Genetics, Measuring Instruments.

FEDERAL LABORATORY CONSORTIUM FOR TECHNOLOGY TRANSFER

FLC *advancing federal research and technology*

The Federal Laboratory Consortium for Technology Transfer (FLC) and the National Technical Information Service (NTIS) continuously collaborate on the process of Federal Technology Transfer.

The FLC is the nationwide network of federal laboratories that provides the forum to develop strategies and opportunities for linking laboratory mission technologies and expertise with the marketplace. The FLC consists of more than 250 federal laboratories.

As an agency of the U.S. Department of Commerce, the NTIS mission is to provide for the acquisition, archiving and dissemination of technological, scientific, and engineering information. Much of this permanent repository of information is the result of research conducted by federal laboratories that are members of the FLC. The collaborative effort of the FLC and NTIS ensures the perpetual availability of this vital research to American businesses and industries.

www.federallabs.org

DE2010972121
TMTI Task 1.6 Genetic Engineering Methods and Detection.
Lawrence Livermore National Lab., CA.
2009, 13p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology)
57K (Microbiology)
88B (Information Systems)
74D (Chemical, Biological, & Radiological Warfare)
Keywords: Genetic engineering, Detection, Biological agents.

DE20131088046
Genetic Engineering of Cyanobacteria as Biodiesel Feedstock.
Sandia National Labs., Albuquerque, NM.
2013, 67p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology)
57K (Microbiology)
97K (Fuels)
Keywords: Genetic engineering, Cyanobacteria, Biodiesel, Algae.

DE85006771
Genetic Engineering of Plants. Agricultural Research Opportunities and Policy Concerns.
National Research Council, Washington, DC. Board on Agriculture.
1984, 96p
Related Categories/Subcategories
98D (Agronomy, Horticulture, & Plant Pathology),
57C (Botany)
Keywords: Agriculture, Genetic Engineering, Crops, Economic Impact.

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NTRL Increases Access to Federal S&T Reports

NTIS has launched greater access to federally funded science & technology information and reports. Starting in October 2014, U.S. citizens have free access to all electronically-available documents in the NTIS collection.

Currently there are more than 850,000 documents digitized for free public access. For the first time, Individuals have the option to subscribe to the NTRL in order to benefit from the Premium features of the database, such as advanced search, more free downloads, and digitization-on-demand (NTRL Premium Institutional).

Please feel free to contact me if you have any questions.

Greg Guthrie, Program Manager
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ACCESS				
Type of Access	Open	Password	Password	IP
Accepted Terms and Conditions	-	✓	✓	✓
SEARCH CAPABILITIES				
Basic	✓	✓	✓	✓
Advanced	-	-	✓	✓
Filter Results	-	-	✓	✓
Email Results	-	-	✓	✓
DATA PRODUCTS				
Link to NTIS WebStore for Purchase	✓	✓	✓	Digital-On-Demand
Linked Research Data on DVD/CD	-	Purchase at NTIS WebStore	Purchase at NTIS WebStore	Free
DOWNLOADS				
Full Text PDF Display	-	✓	✓	✓
Limit Per Session	-	10	40	40
SOCIAL NETWORKING				
View Document's Comments	-	-	✓	✓
Post Document's Comments	-	-	✓	✓ (Available when creating an account within the Institution)
PERSONALIZATION				
Save Personal Notes	-	-	✓	✓ (Available when creating an account within the Institution)
Save Favorite Documents	-	-	✓	✓ (Available when creating an account within the Institution)
Email Favorite Documents Per Session	-	-	✓	✓
EXTERNAL SYSTEMS				
EndNote	-	-	✓	✓
DIGITAL-ON-DEMAND				
User Requests	-	-	-	✓ (Mediated: Limit of 5 per week)
Administrator Tool	-	-	-	✓
INSTITUTION ACCESS				
IP Based	-	-	-	✓
Branded Site	-	-	-	✓
REPORTING				
Administrator Usage Statistics	-	-	-	✓
TRIAL ACCESS				
Public NTRL	-	-	-	

DE88004497
Genetic Engineering of Corn and Other Higher Plants: Final Technical Report.
Stanford Linear Accelerator Center, CA.
1987, 3p
Related Categories/Subcategories
57C (Botany)
98D (Agronomy, Horticulture, & Plant Pathology
Keywords: Maize, Genetic Mapping, Genetic Variability.

DE91018304
Genetic engineering of sulfur-degrading Sulfolobus. Technical report, March 1, 1991-May 31, 1991.
Illinois Dept. of Energy and Natural Resources, Springfield.
1991, 20p
Related Categories/Subcategories
57K (Microbiology)
57F (Cytology, Genetics, & Molecular Biology)
Keywords: Coal, Genes, Biodegradation, Cloning, DNA, Desulfurization.

PB2000102936
Research Involving Human Biological Materials: Ethical Issues and Policy Guidance. Volume 1. Report and Recommendations of the National Bioethics Advisory Commission.
National Bioethics Advisory Commission, Rockville, MD.
1999, 136p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology
90D (Biology & Medicine)
57E (Clinical Medicine)
Keywords: Genetics, Genetic engineering, Gene products, Genetics, Biomedical engineering

N9630250
Crystals of Human Serum Albumin for Use in Genetic Engineering and Rational Drug Design.
National Aeronautics and Space Administration, Huntsville, AL. George C. Marshall Space Flight Center.
1994, 18p
Related Categories/Subcategories
84 (Space Technology)
57E (Clinical Medicine)
90 (Government Inventions for Licensing)
Keywords: Patent applications, Albumins, Crystal structure, Drugs.

PB85222875
Industrial Hygiene Characterization of Commercial Applications of Genetic Engineering and Biotechnology.
National Inst. for Occupational Safety and Health, Cincinnati, OH. Div. of Surveillance, Hazard Evaluations and Field Studies.
1983, 43p
Related Categories/Subcategories
57U (Public Health & Industrial Medicine)
57Y (Toxicology)
94D (Job Environment)
41I (Job Environment)
68G (Environmental Health & Safety)
68A (Air Pollution & Control)
Keywords: Environmental surveys, Industrial medicine, Genetics.

PB2009113060
Splicing Life: A Report on the Social and Ethical Issues of Genetic Engineering with Human Beings.
Georgetown Univ., Washington, DC. Joseph and Rose Kennedy Institute of Ethics.
1982, 129p
Related Categories/Subcategories
57F (Cytology, Genetics, & Molecular Biology)
92C (Social Concerns)
Keywords: Genetic engineering, Social issues, Ethical issues, Human beings.

PB85178150
Potential of Biotechnology for the Gulf Region and the Role of the International Centre for Genetic Engineering and Biotechnology.
United Nations Industrial Development Organization, Vienna (Austria).
1984, 14p
Related Categories/Subcategories
57 (Medicine & Biology)
95 (Biomedical Technology & Human Factors Engineering)
Keywords: Genetic engineering, Microbiology, Agriculture.

PB85205433
Promise of Biotechnology and Genetic Engineering for Africa.
United Nations Industrial Development Organization, Vienna (Austria).
1985, 34p
UNIDO/IS.513, V-85-21805
Related Categories/Subcategories
57 (Medicine & Biology)
95 (Biomedical Technology & Human Factors Engineering)
Keywords: Africa, Developing countries, Genetic engineering.

LEGACY DOCUMENTS

FOR LEGACY DOCUMENTS (LD) :

Legacy Documents are documents in the repository and haven't been digitized. Digitization-on-demand for these documents is available to NTRL Subscribers.

AD390022
Lessons Learned, Headquarters, 716TH Military Police Battalion.
1968, 33p
Date of Report February
Corp Author - Adjutant General's Office (Army), Washington, DC.
Related Categories/Subcategories
74G (Military Operations, Strategy, & Tactics)
45G (Communication & Information Theory)
45B-Radio & Television Equipment.)
91D (Communications0
Keywords: Army operations, Military police, Vietnam, Military training, Tactical warfare, Communication systems, Communication and radio systems.

N9514649
Global Emergency Observation and Warning System.
1994, 5p
Corp Author - National Aeronautics and Space Administration, Huntsville, AL. George C. Marshall Space Flight Center.
Related Categories/Subcategories
43D-Police, Fire, & Emergency Services.
91I-Emergency Services & Planning.
48C-Natural Resource Surveys.
Descriptors - Data processing, Disasters, Functional design specifications.

ED076203
Computer-Based Storage and Retrieval of Geoscience Information: Bibliography 1946-69.
1971, 56p
Corp Author – Educational Resources Information Center, Washington, DC..
Related Categories/Subcategories
88E-Reference Materials,
48F-Geology & Geophysics.
62-Computers, Control & Information Theory.
Descriptors - Information storage, Geology, Computers, Bibliographies.

COM7511264
Fishery Industries of the United States 1939.
Corp Author - Bureau of Fisheries, Washington, DC..
1941, 373p
Related Categories/Subcategories
57-Medicine & Biology,
98H-Food Technology, 96A-Domestic Commerce, Marketing, & Economics,
98F-Fisheries & Aquaculture.
Descriptors - Fisheries, Fishing industry, Fish economics, Fishing products.

AD635826
The Japanese Communist Movement: 1920-1965.
Corp Author – RAND Corp., Santa Monica, CA..
1956, 2p
Report Date -
Related Categories/Subcategories
96A-Domestic Commerce, Marketing, & Economics,
92C-Social Concerns,
92E-International Relations,
45D-Sociopolitical,
92D-Education, Law, & Humanities.
Descriptors – Japan, Communism, History, Political science, Foreign policy, USSR, China, United States Government.

CENDI (Commerce, Energy, NASA, Defense Information Managers Group)

CENDI (Commerce, Energy, NASA, Defense Information Managers Group) is an interagency group of senior Scientific and Technical Information (STI) managers from 14 United States federal agencies.

CENDI traces its roots to the Committee on Scientific and Technical Information (COSATI) of the Federal Council on Science and Technology. COSATI was established in the early 1960s to coordinate the management of the results from the U.S. government's increasing commitment to scientific research and technology development. The scientific and technical information (STI) managers of the government's major research and development (R&D) agencies worked within COSATI to standardize guidelines for cataloging and indexing technical reports. COSATI ceased formal operations in the early 1970s.

To continue the cooperation begun under COSATI, managers of agency STI programs from Commerce (National Technical Information Service), Energy (Office of Scientific and Technical Information), NASA (HQ/STI Division), and Defense (Defense Technical Information Center) began meeting periodically to discuss common topics and stimulate more effective cooperation.

In 1985, a Memorandum of Understanding was signed by the four charter agencies and CENDI was established. From this small core of STI managers, CENDI has grown to its current membership, which represents the major science agencies, the national libraries, and agencies involved in the dissemination and long-term management of scientific and technical information.

Public Access Plans of U.S. Federal Agencies

Additional Public Access Plans will be posted as agencies release them.

In a memo released by the Office of Science and Technology Policy (OSTP) on February 22, 2013, each Federal agency with over $100 million in annual conduct of research and development expenditures was directed to develop a plan to support increased public access to the results of research funded by the Federal Government. This included any results published in peer-reviewed scholarly publications that are based on research that directly arises from Federal funds, as defined in relevant OMB circulars (e.g., A-21and A-11).

The full memo can be viewed at *https://www2.icsu-wds.org/files/ostp-public-access-memo-2013.pdf*.

Some agencies not subject to the OSTP memo are voluntarily developing Public Access Plans and are included below.

Available Plans

- **Agency for International Development (Oct. 1, 2014)**
  http://blog.usaid.gov/2014/10/announcing-usaids-open-data-policy/
- **Department of Agriculture (Nov. 7, 2014)**
  http://www.usda.gov/documents/USDA-Public-Access-Implementation-Plan.pdf **/ (PB2015102892)**
  Department of Commerce
  - **National Institute of Standards and Technology (Apr. 3, 2015)**
    http://www.nist.gov/open/upload/NIST-Plan-for-Public-Access.pdf **/ (PB2015104387)**
  - **National Oceanic and Atmospheric Administration (Feb. 2015)**
    http://docs.lib.noaa.gov/noaa_documents/NOAA_Research_Council/NOAA_PARR_Plan_v5.04.pdf **/ (PB2015102888)**
- **Department of Defense (Feb. 2015)**
  http://www.dtic.mil/dtic/pdf/DoD_PublicAccessPlan_Feb2015.pdf
- **Department of Energy (Jul. 24, 2014)**
  http://energy.gov/sites/prod/files/2014/08/f18/DOE_Public_Access Plan_FINAL.pdf **/ (PB2015101160)**
- **Department of Health and Human Services**
  http://www.hhs.gov/open/public-access/guiding-principles.html
  - **Agency for Healthcare Research and Quality (Feb. 2015)**
    http://www.ahrq.gov/funding/policies/publicaccess/index.html
  - **Centers for Disease Control (Jan. 2015)**
    http://www.cdc.gov/od/science/docs/Final-CDC-Public-Access-Plan-Jan-2015_508-Compliant.pdf **/ (PB2015102889)**
    Food and Drug Administration (Feb. 27, 2015)
    http://www.fda.gov/downloads/ScienceResearch/AboutScienceResearchatFDA/UCM435418.pdf **/ (PB2015102887)**
  - **National Institutes of Health (Feb. 26, 2015)**
    http://grants.nih.gov/grants/NIH-Public-Access-Plan.pdf **/ (PB2015102891)**
  - **Office of the Assistant Secretary for Preparedness and Response (Feb. 27, 2015)**
    http://www.phe.gov/Preparedness/planning/science/Documents/AccessPlan.pdf **/ (PB2015102888)**
- **Department of the Interior**
  - **US Geological Survey (Feb. 19, 2015)**
    http://www.usgs.gov/usgs-manual/im/IM-OSQI-2015-01.html
- **National Aeronautics and Space Administration (Nov. 21, 2014)**
  http://science.nasa.gov/media/medialibrary/2014/12/05/NASA_Plan_for_increasing_access_to_results_of_federally_funded_research.pdf
- **National Science Foundation (Mar. 18, 2015)**
  http://www.nsf.gov/pubs/2015/nsf15052/nsf15052.pdf **/ (PB2015102890)**
- **Veterans Administration (Feb. 1, 2015)**
  http://www.research.va.gov/resources/policies/public_access.cfm

Send Feedback & Questions to: **cendi.info@iiaweb.com**

ADA468243

Next Generation Bioweapons: The Technology of Genetic Engineering Applied to Biowarfare and Bioterrorism.

Air Univ., Maxwell AFB, AL..

GENETIC ENGINEERING

The history of warfare and the history of disease are unquestionably interwoven. Throughout the history of warfare, disease and non-battle injury have accounted for more deaths and loss of combat capability than from actual battle in war itself. The most striking example is the great influenza pandemic during World War I that killed 20 million people or more worldwide in 1918.

Although this was a naturally occurring event, what if a country could create a biological agent that could yield the same catastrophic loss of life on the enemy. That, in essence, is the potential effect of applying genetic engineering for biological warfare (BW) or bioterrorism (BT). Today, we face not only natural diseases (including emerging infectious diseases), but also threats of BW or BT, possibly with genetically engineered agents, that may resist known therapies. In simple terms, genetic engineering is the process of human intervention to transfer functional genes (DNA) between two biological organisms.

In the BW/BT context, it is the manipulation of genes to create new pathogenic characteristics (increased survivability, infectivity, violence, drug resistance, etc). Organisms with altered characteristics are the 'new generation' biological weapons.

Major Subject Categories

Category Codes*/Title	New for July Quantity**
41 Manufacturing Technology	29
43 Problem Solving Information for State & Local Governments	114
44 Health Care	86
45 Communication	74
46 Physics	221
47 Ocean Sciences & Technology	104
48 Natural Resources & Earth Sciences	166
49 Electrotechnology	36
50 Civil Engineering	63
51 Aeronautics & Aerodynamics	98
54 Astronomy & Astrophysics	137
55 Atmospheric Sciences	78
57 Medicine & Biology	805
62 Computers, Control & Information Theory	232
63 Detection & Countermeasures	75
68 Environmental Pollution & Control	109
70 Administration & Management	123
71 Materials Sciences	90
72 Mathematical Sciences	154
74 Military Sciences	358
75 Missile Technology	4
76 Navigation, Guidance, & Control	12
77 Nuclear Science & Technology	30
79 Ordnance	23
81 Combustion, Engines, & Propellants	22
82 Photography & Recording Devices	19
84 Space Technology	137
85 Transportation	133
88 Library & Information Sciences	138
89 Building Industry Technology	32
90 Government Inventions for Licensing	0
91 Urban & Regional Technology & Development	133
92 Behavior & Society	427
94 Industrial & Mechanical Engineering	82
95 Biomedical Technology & Human Factors Engineering	115
96 Business & Economics	92
97 Energy	120
98 Agriculture & Food	50
99 Chemistry	66

** Scope Notes define the specific topical content for each category;*
http://www.ntis.gov/assets/pdf/scopenotes.pdf
*** Quantities represent each new report assigned on average to 3-5 categories.*

NTRL

NATIONAL TECHNICAL REPORTS LIBRARY
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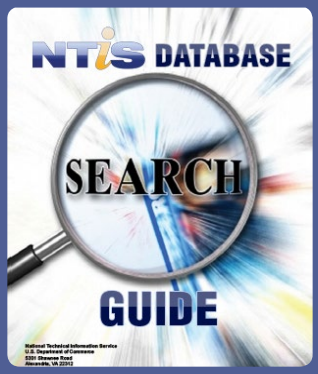
The National Technical Reports Library (NTRL) **enhances accessibility to the NTIS technical reports collection. It provides access to:**

- Bibliographic records of more than 2,500,000 technical reports
- Downloadable full text of 850,000 of these reports in PDF format

Subscription rates are based on the number of IP's.

The NTRL operates on a system interface that allows users to do queries on the large NTIS bibliographic database. The intent is to broadly expand and improve access to over 2 million bibliographic records (pre-1960 to present) and 800k full-text documents in PDF format that are directly linked to that bibliographic database.

For more information, go to:
http://www.ntis.gov/products/ntrl/



Just Revised: the NTIS Database Search Guide

Gain an in-depth understanding of the NTIS database structure with this new guide:

- Comprehensive list of NTIS Categories
- Helpful information and search hints
- Reference Guide to online commercial services and the NTRL
- Great Reference Manual & Teaching Tool

Subject Category Codes/Classification

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more.

Any of the technical reports listed in this newsletter can be ordered directly from the National Technical Information Service, simply click on the title to go to the product detail page on NTIS.GOV.

If your organization is a subscriber to the National Technical Reports Library, most of the reports listed can be downloaded free there. For information on how to subscribe to NTRL, go to ***http://www.ntis.gov/products/ntrl/***.

Title Index - For NTRL Users

The following is a list of the titles included in this month's issue, without links to the NTIS Web site. The list is in alphabetical order by title.

NTIS Number	Category	Title
ADA447681	57F	Advances in Biotechnology and Genetic Engineering: Implications for the Development of New Biological Warfare Agents.
ADA266433	57F	Biotechnology and Genetic Engineering Reviews. Volume 10.
N9630250	84	Crystals of Human Serum Albumin for Use in Genetic Engineering and Rational Drug Design.
ADA309697	57F	Genetic Engineering to Enhance Microbial Interference and Related Therapeutic Applications.
DE00013705	57F	Genetic engineering of a radiation-resistant bacterium for biodegradation of mixed wastes. 1998 annual progress report.
ADA246249	57F	Genetic Engineering of a Type II DHFR.
ADA391074	57B	Genetic Engineering of Artificial Proteins Containing Non-Natural Amino Acids.
ADA201097	57F	Genetic Engineering of 'Clostridium difficile' Toxin A Vaccine.
DE88004497	57C	Genetic Engineering of Corn and Other Higher Plants: Final Technical Report.
DE20131088046	57F	Genetic Engineering of Cyanobacteria as Biodiesel Feedstock.
DE85006771	98D	Genetic Engineering of Plants. Agricultural Research Opportunities and Policy Concerns.
ADA313717	57F	Genetic Engineering of Polymers Containing Non-Natural Amino Acids.
ADA210332	57K	Genetic Engineering of Single-Domain Magnetic Particles.
DE91018304	57K	Genetic engineering of sulfur-degrading Sulfolobus. Technical report, March 1, 1991-May 31, 1991
PB85222875	57U	Industrial Hygiene Characterization of Commercial Applications of Genetic Engineering and Biotechnology.
ADA468243	57F	Next Generation Bioweapons: The Technology of Genetic Engineering Applied to Biowarfare and Bioterrorism.
PB85178150	57	Potential of Biotechnology for the Gulf Region and the Role of the International Centre for Genetic Engineering and Biotechnology.
ADA601596	57F	Potential of Genetic Engineering in Agriculture to Affect Global Stability.
PB85205433	57	Promise of Biotechnology and Genetic Engineering for Africa.
PB2009113060	57F	Splicing Life: A Report on the Social and Ethical Issues of Genetic Engineering with Human Beings.
DE2010972121	57F	TMTI Task 1.6 Genetic Engineering Methods and Detection.
ADA585644	57F	Use of Bioresorbable Hydrogels and Genetic Engineering to Accomplish Rapid Stabilization and Healing in Segmental Long Bone Defects.
ADA386808	57B	Use of Genetic Engineering to Produce a Mutated Cytochrome P450 Enzyme Capable of Both Oxidizing and Reductively Dechlorinating Hazardous Organic Chemicals.