Inventor: Gwong-Jen J. Chang
U.S. Patent Application SN: 60/087,908 (CDC Ref. #: I–008–97/0)

Method and Devices for Detection of Retroviral Infection

This invention comprises of methods, devices and compositions for detection of endogenous retroviruses found in xenotransplant materials. The methods and compositions are suited for detection of endogenous type-C retroviruses and in particular, for porcine endogenous retrovirus (PERV). Detection of such is necessary following xenotransplantation of porcine cellular products.

Inventor: Walid Heneine, et al.
U.S. Patent Application SN 60/090,972 (CDC Ref. #: I–021–98/0)

Methods and Devices for Detection of Xenogeneic Infectious Agents

Compositions, methods and diagnostic devices for monitoring porcine graft integrity and detecting the presence of porcine endogenous retrovirus (PERV) in a biological sample. The compositions, methods and devices are useful for determining or monitoring graft survival and rejection in recipients of xenografts and are useful for detecting PERV infections in a xenotransplant recipient or donor. In addition, the compositions, methods and devices are useful for screening therapeutic products to be administered to humans to ensure that the products are free of PERV contamination prior to administration.

Inventor: Bill Switzer, et al.
U.S. Patent Application SN: 60/093,202 (CDC Ref. #: I–024–98/0)
Associated U.S. Patent Application SN: 60/098,262 (CDC Ref. #≦ I–024–98/1)

Methods for the Prevention and Treatment of Diseases Caused by an Inflammatory Response

This invention provides methods for preventing or treating a disease in a subject caused by an inflammatory response to a disease or syndrome that is mediated by endogenous substance P. The methods include administration of anti-substance P antibodies or anti-substance P antibody fragments.

Inventor: Ralph A. Tripp, et al.
U.S. Patent Application SN: 60/116,835 (CDC Ref. #: I–009–98/0)
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Preparation and Use of Recombinant Influenza A Virus M2 Constructs in Vaccines

M2, a structurally conserved influenza A viral surface protein, is capable of inducing broader, more cross-reactive immunity to type A influenza viruses. This invention solves the problems of the prior art approaches to recombinant M2 production by providing new recombinant forms of M2 whose structure has been modified to allow simple prokaryotic expression as a soluble, readily purified variant protein which retains antigenic and immunogenic properties. The invention relates to vaccines comprised of these new recombinant forms of M2, and to methods of prevention and treatment of influenza A virus infections.

Inventor: A. Michael Frace, et. al.
U.S. Patent Application SN: 08/906,930 (CDC Ref. #: I–020–97/0)

Method and Kit for Detecting Resistance to Antiviral Drugs

One of the problems with the development of current therapies for HIV infection is that the HIV virus rapidly develops resistance to drugs such as reverse transcriptase inhibitors. This invention provides for an assay and kit for the detection of phenotypic resistance to a reverse transcriptase inhibitor drug in a biological sample.

Inventor: Walid Heneine, et al.
U.S. Patent Application SN: 60/090,051 (CDC Ref. #: I–005–98/0)

Novel Granulocytic Ehrlichia Genes and Uses Thereof

Granulocytic ehrlichiosis is an acute, potentially fatal tick-borne infection. This invention provides for granulocytic ehrlichia specific genes encoding thirteen proteins that can be used as diagnostic reagents and vaccines. Isolated nucleic acid molecules, purified polypeptides, nucleic acid probes, and antibodies to the thirteen proteins are provided for. The recombinant nucleic acid molecule, vectors, cells and many other forms of the molecule are provided for along with the methods and kit for detection.

Inventor: Cheryl I. Murphy, et al.
U.S. Patent Application SN: 09/178,316 (CDC Ref. #: I–011–99/0)

Invasion Associated Genes from *Neisseria Meningitidis* Serogroup B

The invention provides nucleic acids and encoded polypeptides associated with invasion of Neisseria meningitidis. The polypeptides are used as diagnostic reagents, as immunogenic reagents, and as components of vaccines. The nucleic acids are used as diagnostic reagents, as components of vectors and vaccines, and to encode the polypeptides of the invention. The invention also provides strains of Neisseria meningitidis which have an invasion deficient phenotype.

Inventors: Frederick D. Quinn, et. al.
U.S. Patent Application SN: 60/030,432 (Ref. #: I–002–95/0)

Dated: May 10, 1999.

Joseph Carter,

Acting Associate Director for Management and Operations, Centers for Disease Control and Prevention (CDC).

[FR Doc. 99–12204 Filed 5–13–99; 8:45 am]
BILLING CODE 4163–18–P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Disease Control and Prevention

Government-Owned Inventions; Availability for Licensing

AGENCY: Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS).

ACTION: Notice.

The inventions named in this notice are owned by agencies of the United States Government and are available for licensing in the United States (U.S.) in accordance with 35 U.S.C. 207 to achieve expeditious commercialization of results of federally funded research and development. Foreign patent applications are filed on selected inventions to extend market coverage for U.S. companies and may also be available for licensing.

ADDRESSES: Licensing information and copies of the U.S. patent applications listed below may be obtained by writing to Thomas E. O'Toole, M.P.H., Deputy Director, Technology Transfer Office, Centers for Disease Control and Prevention (CDC), Mailstop E–67, 1600 Clifton Rd., NE Atlanta, GA 30333, telephone (404) 639–6270; facsimile (404) 639–6266. A signed Confidential Disclosure Agreement will be required to receive copies of the patent applications.

Occupational Safety

Isocyanate Derivatizing Agent and Methods of Production and Use

This invention provides for a novel isocyanate derivatizing agent, 9-anthracenylmethyl-1-piperazinecarbozylate (PAC), that may be useful for the determination of isocyanates in an environmental sample. This agent is capable of derivatizing all isocyanate species. A method for producing PAC as well as a rapid, sensitive, inexpensive and efficient method for measuring the total level of isocyanate in an environmental sample are also provided.

Inventor: Robert P. Streicher

U.S. Patent Application SN 60/085,260 (CDC Ref. #: I–005–97/0)

Ore Pass Level and Blockage Locator Device

This invention comprises of a device that consists of weldable strain gauges attached to inexpensive steel strapping that can be bolted to the interior of an ore pass. This device provides multiple measurement points for the entire length of the ore pass and indicates the ore level in the ore pass and the location of any blockages or hang-ups. Consequently, this information can reduce accidents associated with removing hang-ups by providing an indication of the entire length of the ore pass and indicates the ore level in the ore pass and the location of any blockages or hang-ups.

Inventor: Todd M. Ruff

U.S. Patent Application SN: 60/086,929 (CDC Ref. #: I–006–98/0)

Method for Determination of Hexavalent Chromium Using Ultrasonication and Storing Anion Exchange Solid Phase Extraction

A method for the determination of hexavalent chromium in environmental and industrial hygiene samples is provided. Based on the chemical properties of chromium species in aqueous solutions, a simple, fast, sensitive, and economical field method has been developed and evaluated for the determination of hexavalent chromium. By means of ultrasonic extraction in combination with a strong anion exchange solid phase extraction (SAE-SPE) technique, the filtration, preconcentration, and isolation of the hexavalent chromium in the presence of other chromium species and interferents was achieved. This method can be used in both laboratory and field analysis.

Inventor: Jin Wang, et al.

U.S. Patent Application SN: 60/076,137 (CDC Ref. #: I–010–98/0)

Intrinsically-Safe Hazard Alert Module

This invention relates to an intrinsically-safe roof hazard warning device designed to be attached to the roof hazard warning device designed to be attached to the roof of a mine to indicate unsupported roof or other unsafe conditions. The hazard alert can then direct a person's attention to read the warning message on the module, and thus avoiding the hazard beyond the device. The device of this invention is especially useful in underground mining operations.

Inventor: William D. Mayercheck, et al.

U.S. Patent Application SN: 60/083,677 (CDC Ref. #: I–012–98/0)

Method and Apparatus for Detecting a Temperature Increase in an Electrical Insulator

This invention provides a heat-sensitive warning device and a related method for visually detecting an increase in the temperature of the outer surface of an electrical insulator, which may indicate the unsafe flow of leakage of electrical current. Furthermore, the method and apparatus of the invention provides visual indicia of a temperature increase in the electrical insulator, where this preset temperature is well below an unsafe temperature for the particular electrical insulator so that the insulator may be replaced prior to reaching the unsafe temperature. This invention is particulary useful in underground mining operations.

Inventor: Arthur J. Hudson

U.S. Patent Application SN: 60/087,131 (CDC Ref. #: I–016–97/0)

Method and Apparatus for Load Rate Monitoring

This device monitors the dynamic loading rate on support systems used in underground mines. The device uses a programmable microcontroller to monitor and calculate the loading rates on the support system from pressure transducer(s) or weldable strain gage(s) instrumentation installed on the support system. Furthermore, this invention is programmed to sequentially activate different colored lights and audio alarms as the loading rate increases on the support system. This information can be used as an aid in determining when to install additional support or in determining when to remove equipment and/or personnel from the area before a dangerous roof fall occurs.

Inventor: Wayne Howie, et al.

U.S. Patent Application SN: 60/083,678 (CDC Ref #: I–016–98/0)

Instrumented Cable

The invention describes a novel way of removing a king wire in a cable bolt and molding a new cable bolt king wire with strain gauges on it to measure strain in the cable bolt from the loads applied to the cable. The disclosed method consists of using a piece of strap metal with strain gauges attached to it as the basic wire replacement. This assembly is placed in an injector mold and injected with a nonspecified forming compound to make the attachment for the new instrumented king wire.

Inventor: Lewis A. Martin, et al.

U.S. Patent Application SN: 60/076,138 (CDC Ref. #: I–023–97/0)

Dated: May 10, 1999.

Joseph R. Carter,

Acting Associate Director for Management and Operations, Centers for Disease Control and Prevention (CDC).

[FR Doc. 99–12208 Filed 5–13–99; 8:45 am]

BILLING CODE 4163–18–P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Disease Control and Prevention

Prospective Grant of Exclusive License: Dust Detector Tube

AGENCY: Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (DHHS).

ACTION: Notice.

SUMMARY: This is a notice in accordance with 35 U.S.C. 209(c) and 37 CFR 404.7(a) that the Centers for Disease Control and Prevention (CDC), Technology Transfer Office, Department of Health and Human Services (DHHS), is contemplating the grant of a worldwide, limited field of use, exclusive license to practice the invention embodied in the patent application referred to below to SKC, Inc., having a place of business in Eighty-Four, Pennsylvania. The patent rights in this invention have been assigned to the government of the United States of America. The patent application to license is:

Title: Dust Detector Tube.

U.S. Patent Application Serial No.: 60/052,719.

Filing Date: 7.3.97.

The prospective exclusive license will be royalty-bearing and will comply with the terms and conditions of 35 U.S.C. 209 and 37 CFR 404.7.

Current methods of airborne dust sampling and detection require expensive instantaneous and short-term monitors or gravimetric filters. Current gravimetric dust filtering techniques are cumbersome. A need exists for an inexpensive and noncumbersome method to detect personal dust exposure to aid in assuring the respiratory health of workers.

CDC scientists at the Pittsburgh Research Laboratory have invented a dust detection tube device that provides an individual sampling method and apparatus for real-time respirable dust dosimetry for dust exposure assessment. This device can be standardized with other types of gas detection tubes so that it can be used with the same pump system to measure both dust and gas.

ADDRESSES: Requests for a copy of this patent application, inquiries, comments,