

5418152

**ACIDIC POLYCYCLIC ETHER
ANTIBIOTIC**

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STATES Assigned to Pfizer Inc

PCT No. PCT/US91/06084 Sec. 371 Date Mar. 12, 1993 Sec. 102(e) Date Mar. 12, 1993 PCT Filed Aug. 30, 1991. An acidic polycyclic ether antibiotic, having structure established by X-ray crystallography, is formed by fermentation of a novel microorganism, *Actinomadura* sp. ATCC 55080. This novel antibiotic is useful as an anticoccidial in poultry, in the prevention and treatment of swine dysentery and as a growth promotant in cattle and swine.

5418159

**LEUKAEMIA INHIBITORY
FACTOR FROM LIVESTOCK
SPECIES AND USE THEREOF TO
ENHANCE IMPLANTATION AND
DEVELOPMENT OF EMBRYONIC
CELLS**

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PCT No. PCT/AU90/00001 Sec. 371 Date Aug. 29, 1991 Sec. 102(e) Date Aug. 29, 1991 PCT Filed Jan. 9, 1990 PCT Pub. No. WO90/08188 PCT Pub. Date Jul. 26, 1990. The present invention relates generally to the isolation of leukaemia inhibitory factor (LIF) genes from livestock species, the expression of said genes in recombinant vectors and the isolation of the recombinant LIF molecules and the use of livestock species LIF to enhance the in vitro development of an embryo to the implantation stage.

5418164

**SELF-SUPPORTING CARRIER-
FREE CELL GRANULATES FOR
COMBATING PESTS AND
TREATING PLANTS**

Andersch Wolfra; Hartwig Jurgen; Homeyer Bernhard; Stenzel Klaus Cologne, GERMANY Assigned to Bayer Aktiengesellschaft

An agent for combating pests and for protecting plants comprising a carrier-free cell granulate of a microorganism which is suitable for combating pests or for plant treatment such as fungi or bacteria which are capable of mycelium formation, e.g. *Deuteromycetes* and *Metarhizium* including the new anisopliae strains DMS 3884 and 3885.

5418165

**COLD TOLERANT
TRICHODERMA**

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The invention includes a new, cold tolerant strain of mycoparasite *Trichoderma* and mutants that are resistant to a pesticide to which the *Trichoderma* isolate is sensitive. These novel *Trichoderma* are capable of parasitizing fungi which are pathogenic to plants. They are also capable of producing proteinaceous, antimycotic substances which can inhibit the growth of plant pathogenic fungi. Cold tolerant *Trichoderma* and its biotypes can be used in, but not limited to, controlling fungal plant disease.

5419907

**PATHOGENIC PORCINE
RESPIRATORY CORONAVIRUS**

Paul Prem S; Vaughn Eric M; Halbur Patrick G Ames, IA, UNITED STATES Assigned to Iowa State University Research Foundation Inc

The present invention provides a biologically pure culture of a novel pathogenic porcine respiratory coronavirus (PRCV) and a vaccine derived therefrom effective against PRCV infection and transmissible gastroenteritis virus (TGEV) infection.

5420031

**GYPSY MOTH VIRUS WITH
ENHANCED POLYHEDRA
PRODUCTION STABILITY**

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A virus having the identifying characteristics of ATCC VR2396 is disclosed. This virus has the trait of enhanced polyhedra production stability and resists forming a few polyhedra mutant virus. A method of protecting crops from insects comprising applying an insecticidally effective amount of virus having the identifying characteristics of ATCC VR2396 is also disclosed.

5422106

**METHOD OF CONTROLLING
COLEOPTERA USING BACILLUS
THURINGIENSIS STRAINS MG P-
14025 AND LMG P-14026**

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Two new *Bacillus thuringiensis* strains, LMG P-14025 and LMG P-14026, produce insecticidal components that are toxic to Coleoptera, more particularly toxic to *Diabrotica* spp. The strains themselves, their sporulated cultures, or their insecticidally effective components can be used as the active ingredient in an insecticidal composition for combatting Coleoptera, more specifically *Diabrotica* species.

5422107

**TRICHODERMA HARZIANUM
SK-55 FUNGUS, FUNGICIDE
CONTAINING IT, AND METHOD
OF MANUFACTURE OF THE
SAME AND ITS USE**

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Assigned to Hokkaido Green Kosan Incorporated

The fungus *Trichoderma harzianum* SK-55 provides broad antagonistic interaction against plant pathogenic diseases, and may be used to control fungal diseases in plants. A fungicidal composition contains *Trichoderma harzianum* SK-55 isolated from the soil. A method of manufacturing a fungicidal composition comprises introducing a large quantity of *Trichoderma harzianum* SK-55 into a culture medium, incubating it on the culture medium at a specific temperature range and at a specific humidity for a specific period of time, drying it at a specific low temperature range, and, if necessary, milling it into specific grain sizes. The fungicidal composition containing the incubated fungus may be distributed at the rate of 0.5 g to 5 g/m².

5422108

**PROTECTION OF PLANTS
AGAINST PLANT PATHOGENS**

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Transgenic plants that express properly processed ruminant or ruminant-like lysozymes and that are resistant to bacterial pathogens, including both gram-negative and gram-positive bacteria, are provided. A preferred embodiment provides transgenic tobacco plants that express a sufficient concentration of properly processed bovine lysozyme c2 to render the plants less susceptible to bacterial plant pathogens. Methods and compositions for treatment of plants, seeds and other plant tissues prior to or after exposure or infection with bacterial plant pathogens are also provided. In particular, compositions and methods of contacting plants with such compositions that contain a concentration of bovine lysozyme c2 or other ruminant or ruminant-like lysozyme are provided. A signal sequence that is effective for properly processing heterologous proteins that are expressed in transgenic plants is also provided.