

ENVIRONMENTAL RISK MANAGEMENT AUTHORITY

THE BULLETIN

NEW ORGANISMS

The Bulletin goes electronic.

This will be the final paper version of The Bulletin. From now on The Bulletin will be available on www.ermanz.govt.nz. If you currently receive paper versions of The Bulletin and want to be notified when new editions are available on the website, email info@ermanz.govt.nz. Remember also to keep us informed of any changes to your email details.

The Bulletin is produced eleven times per year. It is a listing of applications being processed and the Authority's decisions, as well as other activities under the Hazardous Substances and New Organisms (HSNO) Act. The public register is the official record of all applications received and any controls attached to approvals and may be viewed at our Wellington office. Alternatively, you may view the applications and associated documents on the ERMA New Zealand website: www.ermanz.govt.nz

NEW ORGANISMS

Gonioctena olivacea (Coleoptera, Chrysomelidae), for biological control of weed broom

Date Publically Notified: 21 March 2006

Date Submissions Close: 05 May 2006

NOTIFIED APPLICATIONS RECEIVED AND OPEN FOR SUBMISSIONS

Applications in *The Bulletin* are for reference only. Our public notification process includes alerts in four main daily newspapers, with full information and submission forms available on www.ermanz.govt.nz

To ensure you are advised directly about applications open for public submission, contact info@ermanz.govt.nz to be added to our interested party list. You will need to nominate the type of applications you are interested in.

Applicant: The Canterbury Broom Group

Application Code: NOR05003

Purpose: To conditionally release from containment a mite, *Aceria genistae* (Eriophyidae), and two insects, *Agonopterix assimilella* (Lepidoptera, Oecophoridae) and

NON-NOTIFIED APPLICATIONS RECEIVED

Applicant: AgResearch Limited

Application Code: NOC05010

Purpose: To import seeds of grassland plants into containment as a genetic resource of conserved seeds of plant species of potential economic value to New Zealand and Australia and for international and New Zealand research

Date Formally Received: 03 March 2006

Please feel free to photocopy this material. Acknowledgement of ERMA New Zealand would be appreciated.

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ENVIRONMENTAL RISK MANAGEMENT AUTHORITY
NGĀ KAIWHAKATŪPATO WHAKARARU TAIAO



Applicant: Institute of Environmental Science and Research Limited (ESR)

Application Code: NOC06003

Purpose: Murine norovirus (MNV-1) is a cultivatable norovirus strain which causes mild disease in immune-deficient mice. MNV-1 will be used in laboratory-based experiments to determine its survival in foods and under different environmental stresses

Date Formally Received: 16 March 2006

Applicant: Ministry of Agriculture and Forestry – Compliance and Enforcement Group

Application Code: S2606001

Purpose: To determine whether or not *Iguana iguana* is a new organism under Section 26 of the HSNO Act

Date Formally Received: 06 March 2006

DECISIONS ON APPLICATIONS

The Authority made no decisions on New Organisms applications in March.

DELEGATED AUTHORITY

The Chief Executive of the Environmental Risk Management Authority, acting under delegated power from the Authority, reached a decision on the following applications:

Applicant: Horticulture and Food Research Institute (HortResearch Auckland)

Application Code: GMD06007

Purpose: To use transposon-mediated gene knockout to identify gene(s) responsible for producing an antifungal substance in *Serratia marcescens*. This will be verified by sequencing, and expression of the gene(s) involved

Decision Notified: 21 March 2006

Decision: Approved with Controls

Description of Organisms:

Host organism	Category of host organism	Modified by	Category of modification/containment level
<i>Serratia marcescens</i> Bizio 1823 Non-pathogenic strain 880A	1	Random insertions of 2 kb EZ-Tn5 TM <KAN-2> Transposon. EZ-Tn5 TM <KAN-2> transposon ¹ contains a selectable marker conferring resistance to kanamycin and an <i>E. coli</i> conditional origin of replication, flanked by unique primer sequences and transposase recognition sequences.	
Bacteriophage lambda (<i>Enterobacteria phage λ</i>) ² Non-pathogenic	1	Genomic DNA (gDNA) or complementary DNA (cDNA) isolated from <i>Serratia marcescens</i> strain 880A.	

¹ Lacks Transposase enzyme for transposition

² ICTV approved name

<p>commercially available laboratory strains of bacteriophage lambda vectors</p> <p><i>Escherichia coli</i> (Migula 1895) Castellani & Chalmers 1919 Non-pathogenic laboratory strains</p>	1	<p>Standard non-conjugative <i>Escherichia coli</i> cloning and expression plasmid vectors containing genomic DNA, cDNA or PCR products from <i>Serratia marcescens</i> strain 880A.</p> <p>Donor DNA may contain regulatory elements, non-coding regions and genes encoding putative antifungal/antimicrobial peptides of <i>Serratia marcescens</i>.</p> <p>Vector DNA will also include standard inducible promoters, selectable markers, and protein purification tags.</p> <p>Genetic material shall not include genes encoding known vertebrate toxins.</p>	
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ERMA Approval Code: GMD004214 – 16

BCH Number: 11939 – 41

The following applications were decided by institutions acting under delegated powers from the Authority.

Applicant: AgResearch Limited

Institute Code: GMO05/ARW032

Application Code: GMD06018

Purpose: cDNA from possum enteroviruses will be modified with DNA encoding peptides of possum reproduction genes in *Escherichia coli* and baculovirus to produce virus like particles towards use of enteroviruses as vectors for possum biological control

Decision Notified: 13 March 2006

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (K12 or B derivatives) modified with:

- 1) Standard non-conjugative *Escherichia coli* plasmid or phagemid vectors containing Possum enterovirus strain W1 and W6 cDNA
- 2) Standard non-conjugative *Escherichia coli* plasmid, phagemid and baculovirus vectors containing possum enterovirus polyprotein sequences and complete or partial genes derived from possums involved in reproduction, such as GnRH and zona pellucida

Containment: PC1

Category: A (systems not containing regulatory elements for viral reproduction)
and

Escherichia coli (K12 or B derivatives) modified with:

- 1) Standard non-conjugative *Escherichia coli* plasmid or phagemid vectors containing Possum enterovirus strain W1 and W6 cDNA

2) Standard non-conjugative *Escherichia coli* plasmid, phagemid and baculovirus vectors containing possum enterovirus polyprotein sequences and complete or partial genes derived from possums involved in reproduction, such as GnRH and zona pellucida

Containment: PC2

Category: B (systems containing regulatory elements for viral reproduction)

Decision: Approved with Controls

ERMA Approval Code: GMD004189

BCH Number: 11876

Description of Organism: *Spodoptera frugiperda* Smith

Spodoptera frugiperda (insect cell cultures) modified with standard non-conjugative baculovirus vectors containing possum enterovirus polyprotein sequences and complete or partial genes derived from possums involved in reproduction, such as GnRH and zona pellucida

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004190

BCH Number: 11877

Description of Organism: *Trichoplusia ni* (Huebner)

Trichoplusia ni (insect cell cultures) modified with standard non-conjugative baculovirus vectors containing possum enterovirus polyprotein sequences and complete or partial genes derived from possums involved in reproduction, such as GnRH and zona pellucida

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004191

BCH Number: 11878

Description of Organism: *Trichosurus vulpecula* (Kerr 1792)

Trichosurus vulpecula (cell cultures) modified with standard non-conjugative *Escherichia coli* plasmid or phagemid

vectors containing complete Possum enterovirus strain W1 and W6 cDNA

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004192

BCH Number: 11879

Applicant: AgResearch Limited

Institute Code: GMO05/ARW033

Application Code: GMD06019

Purpose: *Bacillus subtilis*, *Escherichia coli*, *Caenorhabditis elegans* and *Parastronglyoides trichosuri* will be modified with non-conjugative vectors containing nematode, possum and bacterial DNA

Decision Notified: 13 March 2006

Description of Organism: *Bacillus subtilis* Cohn 1872

Bacillus subtilis modified with *Bacillus subtilis* vectors, such as pGDV1 containing chloramphenicol resistance

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004193

BCH Number: 11881

Description of Organism: *Caenorhabditis elegans* Maupas 1900

Caenorhabditis elegans modified with *Bacillus subtilis* vectors and non-conjugative *Escherichia coli* cloning and expression plasmid vectors containing: nematode DNA, such as *Caenorhabditis elegans* and *Parastronglyoides trichosuri* etc; and/or DNA encoding *Mycobacterium bovis* antigens, such as ESAT-6 and Antigen 85 known to produce strong antigenic properties in mammals without toxic effects; and/or marsupial derived reproduction genes, such as GnRH and ZP2, ZP3 and CP4;

and/or transposable genetic elements from arthropods or genes encoding the corresponding transposase enzymes

Containment: PC2

Category: B

Decision: Approved with Controls
ERMA Approval Code: GMD004194
BCH Number: 11882

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (K12 or B derivatives) modified with *Bacillus subtilis* vectors and non-conjugative *Escherichia coli* cloning and expression plasmid and phagemid vectors containing:

nematode DNA, such as *Caenorhabditis elegans* and *Parastrongyloides trichosuri* etc;

and/or DNA encoding *Mycobacterium bovis* antigens, such as ESAT-6 and Antigen 85 known to produce strong antigenic properties in mammals without toxic effects;

and/or marsupial derived reproduction genes, such as GnRH and ZP2, ZP3 and CP4;

and/or transposable genetic elements from arthropods or genes encoding the corresponding transposase enzymes

Containment: PC1

Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004195
BCH Number: 11880

Description of Organism: *Parastrongyloides trichosuri* Mackerras, 1958

Parastrongyloides trichosuri modified with *Bacillus subtilis* vectors and non-conjugative *Escherichia coli* cloning and expression plasmid and phagemid vectors containing:

nematode DNA, such as *Caenorhabditis elegans* and *Parastrongyloides trichosuri* etc;

and/or DNA encoding *Mycobacterium bovis* antigens, such as ESAT-6 and Antigen 85 known to produce strong antigenic properties in mammals without toxic effects;

and/or marsupial derived reproduction genes, such as GnRH and ZP2, ZP3 and CP4;

and/or transposable genetic elements from arthropods or genes encoding the corresponding transposase enzymes

Containment: PC2

Category: B

Decision: Approved with Controls
ERMA Approval Code: GMD004196
BCH Number: 11883

Applicant: Massey University
Institute Code: GMO05/MU022
Application Code: GMD06013

Purpose: To determine how RBM3 enhances protein synthesis by assaying its effects on the processes of translation, initiation, elongation and mRNA stability

Decision Notified: 06 March 2006

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (non-pathogenic laboratory strains) modified with non-conjugative cloning, bacterial expression and mammalian expression plasmid vectors containing cDNA encoding the RBM3 protein derived from mice

Containment: PC1

Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004168
BCH Number: 11801

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus (neuroblastoma cell lines) modified with non-conjugative cloning and mammalian expression plasmid vectors containing cDNA encoding the RBM3 protein derived from mice

Containment: PC1

Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004169
BCH Number: 11803

Description of Organism: *Rattus norvegicus*
(Berkenhout, 1769)

Rattus norvegicus (neuroblastoma cell lines) modified with non-conjugative cloning and mammalian expression plasmid vectors containing cDNA encoding the RBM3 protein derived from mice

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004170

BCH Number: 11802

Applicant: University of Auckland

Institute Code: GMO05/UA031

Application Code: GMD06020

Purpose: Study of STIM proteins and their mode of action

Decision Notified: 14 March 2006

The following approved organisms are modified with:

Modification: Standard *Escherichia coli*, *Saccharomyces cerevisiae* and *Pichia pastoris* cloning and expression vectors (including *Pichia* shuttle vectors). Most of which are non-conjugative but definitely not self transmissible

Standard mammalian, zebrafish and insect cell expression vectors including RNA interference vectors

with

Genes sourced from man (*Homo sapiens*), mouse (*Mus musculus*, *Mus spretus*), and rat (*Rattus norvegicus*, *Rattus rattus*) fruitfly (*Drosophila melanogaster*,) and zebrafish (*Danio rerio*) (both sense and anti-sense constructs including nucleotide deletions and substitutions as well as RNA interference sequences) encoding:

- STIM proteins
- Proteins that interact with STIM proteins (interaction to include binding as well as up-and down-regulation)

To include genes encoding:

- Extracellular proteins
- Membrane proteins and receptors
- Chaperone proteins and proteins involved in post-translational processing and protein folding
- Signal transduction molecules and receptors

- Anti-Apoptotic proteins
- Transcriptional factor proteins
- Proteins involved in translation and transcription
- Regulatory sequences
- Transcriptional and promoter elements associated with all of the above sets of gene families
- cDNA and genomic library inserts encoding proteins that may bind STIM proteins and those pathways interacting with STIM systems, not fitting into the above categories

To also include genetic elements encoding protein variants with deletions, multiple amino acid repeats or those proteins variants that may misfold

To also include cDNA sequences encoding protein tags or fusion constructs (including fluorescent and reporter marker proteins) to determine transgene localisation or aid protein purification (including His tags, GFP, FLAG and GST fusion proteins and c-myc tags)

To also include probing of genomic and cDNA libraries for STIM and related proteins

and

Sequences encoding enzymes for assay (e.g. thymidine kinase, U6 RNA polymerase)

To exclude:

1. Genes will not encode toxins with an LD50 < 100 mg/kg
2. Sequences will not produce particles able to infect human, animals or plants
3. Human genes will not be derived from persons of Māori descent

Description of Organism: *Canis familiaris*
(Linnaeus, 1758)

Canis familiaris (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004197

BCH Number: 11905

Description of Organism: *Cercopithecus aethiops*
Linnaeus 1758

Cercopithecus aethiops (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004198

BCH Number: 11907

Description of Organism: *Cricetulus griseus* Milne Edwards 1857

Cricetulus griseus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004199

BCH Number: 11904

Description of Organism: *Cricetus cricetus* Linnaeus

Cricetus cricetus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004200

BCH Number: 11903

Description of Organism: *Danio rerio* Hamilton-Buchanan

Danio rerio (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: MD004201

BCH Number: 11911

Description of Organism: *Drosophila melanogaster* Meigen

Drosophila melanogaster (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004202

BCH Number: 11908

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (non pathogenic laboratory adapted strains) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004203

BCH Number: 11895

Description of Organism: *Homo sapiens* (Linnaeus, 1758)

Homo sapiens (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004204

BCH Number: 11898

Description of Organism: *Mesocricetus auratus* Waterhouse

Mesocricetus auratus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004205

BCH Number: 11906

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004206

BCH Number: 11899

Description of Organism: *Mus spretus* Latase

Mus spretus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004207
BCH Number: 11900

Description of Organism: *Pichia pastoris* Guillelm Phaff (1956)
Pichia pastoris (non-pathogenic laboratory adapted strains) modified
Containment: PC1
Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004208
BCH Number: 11897

Description of Organism: *Rattus norvegicus* (Berkenhout, 1769)
Rattus norvegicus (cell lines) modified
Containment: PC1
Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004209
BCH Number: 11901

Description of Organism: *Rattus rattus* Linnaeus
Rattus rattus (cell lines) modified
Containment: PC1
Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004210
BCH Number: 11902

Description of Organism: *Saccharomyces cerevisiae* Hansen 1883
Saccharomyces cerevisiae (non-pathogenic laboratory adapted strains) modified
Containment: PC1
Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004211
BCH Number: 11896

Description of Organism: *Spodoptera frugiperda* Smith
Spodoptera frugiperda (cell lines) modified
Containment: PC1
Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004212
BCH Number: 11910

Description of Organism: *Trichoplusia ni* (Huebner)
Trichoplusia ni (cell lines) modified
Containment: PC1
Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004213
BCH Number: 11909

Applicant: University of Otago
Institute Code: GMO05/UO016
Application Code: GMC06002

Purpose: Genetically modified human, sheep, rat, mouse, hamster and monkey cell lines will be imported in order to investigate proteins important for the regulation of cell growth, death and differentiation

Decision Notified: 06 March 2006

The following approved organisms are modified with:

Modification: Mammalian expression vectors; cDNA encoding genes that are known, or are suspected, to have a role in the regulation of cell growth, death and differentiation in the mammalian cell from *Homo sapiens*, *Mus musculus*, *Mus spretus*, *Rattus rattus*, *Rattus norvegicus*, *Ovis aries*, *Cricetus cricetus*, SV40, HPV and adenoviruses, excluding DNA encoding known animal or plant toxins or sequences that will produce particles able to infect humans, animals or plants. The human DNA will not be of Māori origin

Description of Organism: *Chlorocebus aethiops* Linnaeus 1758
Chlorocebus aethiops (commercially available monkey cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMC001289

BCH Number: 11800

Description of Organism: *Cricetus cricetus*
Linnaeus 1758

Cricetus cricetus (commercially available Chinese hamster cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMC001290

BCH Number: 11799

Description of Organism: *Homo sapiens* (Linnaeus, 1758)

Homo sapiens (commercially available human cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMC001291

BCH Number: 11793

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus (commercially available mouse cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMC001292

BCH Number: 11794

Description of Organism: *Mus spretus* Latase 1883

Mus spretus (commercially available mouse cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMC001293

BCH Number: 11795

Description of Organism: *Ovis aries* Linnaeus 1758

Ovis aries (commercially available sheep cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMC001294

BCH Number: 11798

Description of Organism: *Rattus norvegicus* (Berkenhout, 1769)

Rattus norvegicus (commercially available rat cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMC001295

BCH Number: 11796

Description of Organism: *Rattus rattus* Linnaeus

Rattus rattus (commercially available rat cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMC001296

BCH Number: 11797

Applicant: University of Otago

Institute Code: GMO06/UO001

Application Code: GMC06003

Purpose: Importation of transgenic TGR (Cyp1a1Ren2) rats containing the mouse renin gene, as an inducible hypertensive animal model for the study of development and progression of hypertension

Decision Notified: 23 March 2006

Description of Organism: *Rattus norvegicus* Linnaeus, 1758

Rattus norvegicus, male TGR (Cyp1a1Ren2) rats (derived from inbred Fischer-344 rats) modified with:

Rattus norvegicus Cyp 1 a1 (cytochrome P450 promoter) and *Mus musculus* m Ren-2 (renin gene)

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMC001297

BCH Number: 11958

Applicant: University of Otago

Institute Code: GMO06/UO002

Application Code: GMC06004

Purpose: *Lactobacillus salivarius* strains with specific gene deletions will be imported in order to identify genes that confer properties essential for colonisation of the murine gut and so better understand the microbial ecology of the gastrointestinal tract

Decision Notified: 23 March 2006

Description of Organism: *Lactobacillus salivarius* Rogosa 1953, Dunne et al 1999

Lactobacillus salivarius (strain UCC118) modified with:

Integration replication-defective plasmid such as pOR119; 300-600bp of chromosomal genes (encoding sortase or surface proteins required for cell adhesion) or their flanking regions from *Lactobacillus salivarius* strain UCC118

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMC001298

BCH Number: 11959

Applicant: University of Otago

Institute Code: GMO05/UO015

Application Code: GMD06010

Purpose: To develop GM human, sheep, rat, mouse, hamster and monkey cell lines expressing bacterial, adenoviral, simian virus 40, human papilloma virus, sheep, mouse, rat, hamster or human genes

involved in the regulation of cell growth, death and differentiation

Decision Notified: 06 March 2006

The following approved organisms are modified with:

Modification: Mammalian expression vectors; cDNA encoding genes that are known, or are suspected, to have a role in the regulation of cell growth, death and differentiation in the mammalian cell from *Homo sapiens*, *Mus musculus*, *Mus spretus*, *Rattus rattus*, *Rattus norvegicus*, *Ovis aries*, *Cricetus cricetus*, SV40, HPV and adenoviruses, excluding DNA encoding known animal or plant toxins or sequences that will produce particles able to infect humans, animals or plants. The human DNA will not be of Māori origin

Description of Organism: *Chlorocebus aethiops* Linnaeus 1758

Chlorocebus aethiops (commercially available monkey cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004178

BCH Number: 11788

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Description of Organism: *Cricetus cricetus* Linnaeus 1758

Cricetus cricetus (commercially available hamster cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004179

BCH Number: 11786

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Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (K12 and B derivatives that do not contain conjugative plasmids or generalised transducing phages) modified

Containment: PC1

Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004180
BCH Number: 11787

Description of Organism: *Homo sapiens* (Linnaeus, 1758) cell lines
Homo sapiens (commercially available, non-Māori, cell lines) modified
 Containment: PC1
 Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004181
BCH Number: 11780

Description of Organism: *Mus musculus* Linnaeus, 1758
Mus musculus (commercially available mouse cells such as fibroblasts, skin cells and kidney cells) modified
 Containment: PC1
 Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004182
BCH Number: 11781

Description of Organism: *Mus spretus* Latase
Mus spretus (commercially available mouse cells such as fibroblasts, skin cells and kidney cells) modified
 Containment: PC1
 Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004183
BCH Number: 11782

Description of Organism: *Ovis aries* Linnaeus 1758
Ovis aries (commercially available sheep cell lines) modified
 Containment: PC1
 Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004184
BCH Number: 11785

Description of Organism: *Rattus norvegicus* (Berkenhout, 1769)
Rattus norvegicus (commercially available rat cell lines) modified
 Containment: PC1
 Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004185
BCH Number: 11783

Description of Organism: *Rattus rattus* Linnaeus 1758
Rattus rattus (commercially available rat cell lines) modified
 Containment: PC1
 Category: A

Decision: Approved with Controls
ERMA Approval Code: GMD004186
BCH Number: 11784

Applicant: University of Otago
Institute Code: GMO05/UO014
Application Code: GMD06011

Purpose: To investigate the role of histone and non-histone chromatin-associated proteins in the epigenetic mechanisms associated with tumour formation

Decision Notified: 06 March 2006

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919
Escherichia coli (strain K12 derivatives) modified with non-conjugative commercially available plasmid based bacterial and eukaryotic expression vectors; eukaryotic genes associated with chromatin structure and function from *Saccharomyces cerevisiae*, *Xenopus laevis*, *Drosophila melanogaster*, *Homo sapiens* (non-Māori) and *Mus musculus*
 Containment: PC1
 Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004171

BCH Number: 11762

Description of Organism: *Homo sapiens*
(Linnaeus, 1758) cell lines

Homo sapiens (commercially available human cell lines) modified with non-conjugative commercially available plasmid based bacterial and eukaryotic expression vectors; eukaryotic genes associated with chromatin structure and function from *Saccharomyces cerevisiae*, *Xenopus laevis*, *Drosophila melanogaster*, *Homo sapiens* (non-Māori) and *Mus musculus*

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004172

BCH Number: 11764

Description of Organism: *Mus musculus* Linnaeus,
1758

Mus musculus (commercially available mouse cell lines) modified with non-conjugative commercially available plasmid based bacterial and eukaryotic expression vectors; eukaryotic genes associated with chromatin structure and function from *Saccharomyces cerevisiae*, *Xenopus laevis*, *Drosophila melanogaster*, *Homo sapiens* (non-Māori) and *Mus musculus*

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004173

BCH Number: 11763

Applicant: University of Otago

Institute Code: GMO05/UO021

Application Code: GMD06012

Purpose: The objective of this project is to develop genetically modified *Escherichia coli* and insect and mammalian cell lines to study the function of proteins involved in programmed cell death

Decision Notified: 06 March 2006

Description of Organism: *Escherichia coli* (Migula
1895) Castellani & Chalmers 1919

Escherichia coli (strain K12 derivatives) modified with non-conjugative commercially available plasmid based bacterial, mammalian and insect expression vectors; DNA encoding mammalian proteins involved in programmed cell death

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004174

BCH Number: 11789

Description of Organism: *Homo sapiens*
(Linnaeus, 1758)

Homo sapiens (commercially available (non-Māori) human cell lines) modified with non-conjugative commercially available plasmid based mammalian expression vectors; DNA encoding mammalian proteins involved in programmed cell death

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004175

BCH Number: 11790

Description of Organism: *Mus musculus* Linnaeus,
1758

Mus musculus (commercially available mouse cell lines) modified with non-conjugative commercially available plasmid based mammalian expression vectors; DNA encoding mammalian proteins involved in programmed cell death

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004176

BCH Number: 11791

Description of Organism: *Spodoptera frugiperda* Smith

Spodoptera frugiperda (commercially available insect cell lines) modified with non-conjugative commercially available plasmid based insect expression vectors; DNA encoding mammalian proteins involved in programmed cell death

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004177

BCH Number: 11792

Applicant: University of Otago

Institute Code: GMO05/UO026

Application Code: GMD06014

Purpose: To modify *Escherichia coli* with mitochondrial and/or nuclear DNA from native invertebrates for phylogenetic studies

Decision Notified: 06 March 2006

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (K12 or B derivatives) modified with non-conjugative commercially available plasmid based bacterial cloning vectors such as pGemT or pGemT-easy or pCR-4Blunt-TOPO; synthetic PCR products derived from native invertebrates including *Hemideina crassidens*, *Hemiandrus pallitarsis*, *Acanthoxyla inermis*, *Acanthoxyla geisovii*, *Acanthoxyla intermedia*

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004167

BCH Number: 11765

Applicant: University of Otago

Institute Code: GMO05/UO028

Application Code: GMD06015

Purpose: To assess the amount of genetic variation, population differentiation and inbreeding in yellow-eyed penguins by cloning microsatellite DNA in *Escherichia coli*

Decision Notified: 07 March 2006

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (strain B and K12 derivatives) modified with non-conjugative commercially available plasmid based bacterial vectors; DNA from *Megadyptes antipodes* (yellow-eyed penguin) that has been enriched for repeat microsatellite sequences

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004187

BCH Number: 11804

Applicant: University of Otago

Institute Code: GMO05/UO027

Application Code: GMD06016

Purpose: To develop a microsatellite library for weka in order to investigate genetic diversity

Decision Notified: 07 March 2006

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (strain B and K12 derivatives) modified with non-conjugative commercially available plasmid based bacterial vectors; *Gallirallus australis* (weka) DNA that has been enriched for repeat microsatellite sequences

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004188

BCH Number: 11805

AMENDMENTS TO APPROVALS

There have been no amendments made under section 67A of the HSNO Act for minor or technical errors during this period by the Authority or by the Chief Executive acting under delegated power from the Authority.

HAZARDOUS SUBSTANCES

The applications in *The Bulletin* are for reference only. Our public notification process includes alerts in four main daily newspapers with the full information and submission forms available on our website.

To ensure that you are advised directly about applications open for public submission contact us at info@erманz.govt.nz to be added to our interested party list. You will need to nominate the types of applications that you are interested in.

Applicant: PPG Industries New Zealand Limited

Application Code: HSR05085

Purpose: To import Aquapel Glass Treatment, a long-lasting glass treatment agent that repels water from glass surfaces

Date Publicly Notified: 14 March 2006

Date Submissions Close: 28 April 2006

Applicant: Yates New Zealand Limited

Application Code: HSR06009

Purpose: SD-1005: To import and manufacture a dustable powder containing the actives spinosad, dusting sulphur and copper oxychloride for use as an insecticide for the control of caterpillars, leaf spot and other insects and diseases on tomatoes

Date Publicly Notified: 14 March 2006

Date Submissions Close: 28 April 2006

Applicant: Bayer New Zealand Limited

Application Code: HSR06012

Purpose: To import Proteus, an insecticide intended for the control of Thrips in onion crops

Date Publicly Notified: 14 March 2006

Date Submissions Close: 28 April 2006

Applicant: Agronica New Zealand Limited

Application Code: HSR06024

Purpose: To import and release Citadel Fungicide, an emulsifiable concentrate, containing 250 g/L triadimenol for the control of a variety of diseases

Date Publicly Notified: 14 March 2006

Date Submissions Close: 28 April 2006

Applicant: Novartis New Zealand Limited

Application Code: HSR05145

Purpose: DN704: A veterinary medicine in tablet form for the control of pain and inflammation in dogs

Date Publicly Notified: 16 March 2006

Date Submissions Close: 02 May 2006

Applicant: ERMA New Zealand

Application Code: HRC05001

Purpose: HYDROGEN CYANAMIDE: To reassess soluble concentrates containing hydrogen cyanamide (520-540 g/litre)

Date Publicly Notified: 28 March 2006

Date Submissions Close: 12 May 2006

NON-NOTIFIED APPLICATIONS RECEIVED

Applicant: Dow AgroSciences

Application Code: HSC06003

Purpose: Barnstorm Herbicide: to gain approval to import cyhalofop butyl, in containment, for the contained manufacture of Barnstorm Herbicide for export only purposes

Date Formally Received: 02 March 2006

Applicant: Yates New Zealand Limited

Application Code: HSR05159

Purpose: Yates Zero Broadleaf & Prickle Gun: to import and manufacture for use as a broad-spectrum herbicide for the control of most broadleaf weeds in lawns

Date Formally Received: 28 February 2006

Applicant: Osmose New Zealand

Application Code: HSR06011

Purpose: Oil miscible liquid containing 32.5 to 50.0 g/litre tributyltin oxide: To manufacture oil miscible formulations containing between 32.5 and 50.0 g/L tributyltin oxide as ready-to-use timber preservative solutions

Date Formally Received: 24 February 2006

Applicant: Osmose New Zealand

Application Code: HSR06017

Purpose: Protim FramePlus Oil Miscible Liquid: To manufacture ready-to-use timber preservative solutions containing 5.0 - 10.0 g/L iodocarb and 1.0 - 2.5 g/L permethrin

Date Formally Received: 09 March 2006

Applicant: Agribiz NEW ZEALAND Limited

Application Code: HSR06020

Purpose: STEMSHOT KF-1: to manufacture, import and release this fungicide for use in the control of fungal infections of woody plants

Date Formally Received: 02 March 2006

Applicant: Pacific Door Systems

Application Code: HSR06021

Purpose: UN0048 Charges, Demolition: To import Spherical charges (TNT, uncased) for use as explosives (class 1.1D)

Date Formally Received: 06 March 2006

DECISIONS ON APPLICATIONS

Applicant: Interchem Agencies Limited

Application Code: HSR05126

Purpose: Ammonyx LMDO: for use as a surfactant in a dish washing liquid

Decision Notified: 14 March 2006

Decision: Approved with Controls

Identifier for Substance: AMMONYX LMDO

Classification: 6.1D Acute Toxicant, 6.3B Skin Irritant, 6.4A Eye Irritant, 6.9B Target Organ Systemic Toxicant, 9.1A Aquatic Ecotoxicant, 9.3C Terrestrial Vertebrate Toxicant

ERMA Approval Code: HSR002445

Applicant: Bomac Laboratories Limited

Application Code: HSR05138

Purpose: PALAB3860NC: To manufacture and release for use an anthelmintic for sheep

Decision Notified: 14 March 2006

Decision: Approved with Controls

Identifier for Substance PALAB3860NC

Classification: 6.1E Acute Toxicant, 6.3B Skin Irritant, 6.4A Eye Irritant, 6.5B Skin Sensitiser, 6.6B Mutagen, 6.8A Reproductive/Developmental Toxicant, 6.9B Target Organ Systemic Toxicant, 9.1A Aquatic Ecotoxicant, 9.4A Terrestrial Invertebrate Ecotoxicant

ERMA Approval Code: HSR002446

Applicant: Bomac Laboratories Limited

Application Code: HSR05135

Purpose: ALMB4200NC: to manufacture and release this orally administered veterinary medicine for control of internal parasites in sheep

Decision Notified: 15 March 2006

Decision: Approved with Controls

Identifier for Substance: ALMB4200NC

Classification: 6.1E Acute Toxicity, 6.3B Skin Irritation, 6.4A Eye Irritation, 6.5B Skin Sensitisation, 6.6B Mutagenicity, 6.8B Reproductive/Developmental Toxicity, 6.9B Target Organ systemic Toxicity, 9.1B Aquatic Ecotoxicity, 9.4A Terrestrial Invertebrate Ecotoxicity

ERMA Approval Code: HSR002451

Applicant: Bomac Laboratories Limited

Application Code: HSR05134

Purpose: OLTMB3820NC: to manufacture and release this veterinary medicine for control of internal parasites in cattle

Decision Notified: 15 March 2006

Decision: Approved with Controls

Identifier for Substance: OLTMB3820NC

Classification: 6.1D Acute Toxicity, 6.4A Eye Irritation, 6.5B Skin Sensitisation, 6.6B Mutagenicity, 6.8B Reproductive /Developmental Toxicity, 6.9B Target Organ systemic Toxicity, 9.1B Aquatic Ecotoxicity, 9.3C Terrestrial Vertebrate Ecotoxicity

ERMA Approval Code: HSR002452

Applicant: Novartis New Zealand Limited

Application Code: HSR05106

Purpose: Ricobendazole: To import for use in the manufacture of several veterinary medicines, drenches for the treatment and prevention of internal parasites of sheep and cattle

Decision Notified: 23 March 2006

Decision: Approved with Controls

Identifier for Substance: Ricobendazole

Classification: 6.1D Acute toxicity, 6.5B Dermal Sensitisation, 6.6B Mutagenicity, 6.8A Reproductive /developmental toxicity,

6.9B Target organ toxicity, 9.3B Terrestrial vertebrate toxicity

ERMA Approval Code: HSR002455

DELEGATED AUTHORITY

The Chief Executive of the Environmental Risk Management Authority, acting under delegated power from the Authority, reached a decision on the following applications:

Applicant: Nufarm New Zealand Limited

Application Code: HSR06015

Purpose: To import NUL0019, a selective herbicide containing 2,4-D as the ethyl hexyl ester for the control of broadleaf weeds in pasture

Decision Notified: 08 March 2006

Decision: Approved with Controls

Identifier for Substance: NUL0019

Classification: 6.1D Acute oral toxicity, 6.5B Contact sensitisation, 6.9A Target organ toxicity, 9.1A Aquatic ecotoxicity, 9.2A Soil ecotoxicity, 9.3C Terrestrial vertebrate ecotoxicity

ERMA Approval Code: HSR002444

Applicant: Osmose New Zealand

Application Code: HSR06013

Purpose: To manufacture PROTIM tributyl tin naphthenate oil miscible formulation options as ready-to-use timber preservative solutions

Decision Notified: 14 March 2006

Decision: Approved with Controls

Identifier for Substance: PROTIM oil miscible liquid containing 84 to 190 g/litre tributyl tin naphthenate, 3.2 to 10 g/litre permethrin

PROTIM oil miscible liquid containing 58.5 to 84 g/litre tributyl tin naphthenate, 3.2 to 10 g/litre permethrin

PROTIM oil miscible liquid containing 84 to 190 g/litre tributyl tin naphthenate, 3.2 to 10 g/litre permethrin and 5 to 9 g/litre iodocarb

PROTIM oil miscible liquid containing 58.5 to 84 g/litre tributyl tin naphthenate, 3.2 to 10 g/litre permethrin and 5 to 9 g/litre iodocarb

Classification:

Hazardous Property	PROTIM tributyl tin naphthenate oil miscible formulation options			
	A*	B**	C***	D****
Flammability	3.1C	3.1C	3.1C	3.1C
Acute toxicity	6.1B	6.1C	6.1B	6.1C
Skin irritation	6.3A	6.3B	6.3A	6.3B
Eye irritation	6.4A	6.4A	6.4A	6.4A
Respiratory sensitiser	6.5A	6.5A	6.5A	6.5A
Contact sensitiser	6.5B	6.5B	6.5B	6.5B
Target organ toxicity	6.9A	6.9B	6.9A	6.9B
Aquatic ecotoxicity	9.1A	9.1A	9.1A	9.1A
Soil ecotoxicity	9.2B	9.2B	9.2B	9.2B
Terrestrial vertebrate ecotoxicity	9.3C	-	9.3C	-
Terrestrial invertebrate ecotoxicity	9.4B	9.4B	9.4B	9.4B

* PROTIM oil miscible liquid containing 84 to 190 g/litre tributyl tin naphthenate, 3.2 to 10 g/litre permethrin

** PROTIM oil miscible liquid containing 58.5 to 84 g/litre tributyl tin naphthenate, 3.2 to 10 g/litre permethrin

*** PROTIM oil miscible liquid containing 84 to 190 g/litre tributyl tin naphthenate, 3.2 to 10 g/litre permethrin and 5 to 9 g/litre iodocarb

**** PROTIM oil miscible liquid containing 58.5 to 84 g/litre tributyl tin naphthenate, 3.2 to 10 g/litre permethrin and 5 to 9 g/litre iodocarb

ERMA Approval Code: HSR002447 - 50

Applicant: Taranaki NuChem Limited

Application Code: HSR05151

Purpose: Permatak 100 EnCaps: to manufacture as a capsule suspension containing bifenthrin for use to protect timber and engineered wood products from termite and other boring insects and in agriculture to control a wide range of insects

Decision Notified: 16 March 2006

Decision: Approved with Controls

Identifier for Substance: Permatak 100 EnCaps™

Classification: 6.1D Acute toxicity, 6.4A Eye irritation, 6.9B Target organ toxicity, 9.1A Aquatic ecotoxicity, 9.2C Soil ecotoxicity, 9.3B Terrestrial vertebrate ecotoxicity, 9.4A Terrestrial invertebrate ecotoxicity

ERMA Approval Code: HSR002453

Applicant: Bomac Laboratories Limited

Application Code: HSR05153

Purpose: ZBSB3630NC: to manufacture and release for use an intra-ruminal bolus for the control of facial eczema in sheep

Decision Notified: 16 March 2006

Decision: Approved with Controls

Identifier for Substance: ZBSB3630NC

Classification: 9.1A Aquatic Ecotoxicity

ERMA Approval Code: HSR002454

Applicant: Jurox New Zealand Limited

Application Code: HSC06002

Purpose: LCLR Pour-On for Sheep: to import into containment this veterinary medicine for control of lice and fly infestations in sheep

Decision Notified: 24 March 2006

Decision: Approved with Controls

Identifier for Substance: LCLR Pour-On for Sheep

ERMA Approval Code: HSC000230

Applicant: Millennium Microbes Limited

Application Code: HSR06027

Purpose: To manufacture and release mixtures of indigenous entomopathogenic fungi strains, conidia and blastospores of *Lecanicillium lecanii* and *Beveria bassiana* to assist growers control common insect pests

Decision Notified: 31 March 2006

Decision: Approved with Controls

Identifier for Substance: Biocides consisting of mixtures of indigenous fungi of *Lecanicillium lecanii* (*Lecanicillium longisporum* and *Lecanicillium mucarium*) and *Beauveria bassiana*

Classification: 9.1D biocides, 6.5B skin sensitisers

ERMA Approval Code: HSR002456

AMENDMENTS TO APPROVALS

There have been no amendments made under section 67A of the HSNO Act for minor or technical errors amendments during this period.

SEARCHING ERMA NEW ZEALAND'S ONLINE REGISTERS

Introduction

Our online registers <http://www.ermanz.govt.nz/> are the most convenient way to find information on hazardous substance and new organism applications. These registers contain applications under Part V, or hazardous substances that have been transferred. (It does not currently list transferred explosives, other substances matching existing approvals, or organisms in New Zealand prior to July 1998.)

Searching the registers

Enter in the **Search** box at the bottom of the home page, either the code for the approval or application, or the **name** of the substance or organism, for all documents relating to an application or approval. The Search Results page will show:

- The substance/organism name – this links to the details about that substance/organism
- Trade or other names – contains trade names, synonyms
- The applicant's name
- The purpose of the application
- The application status

Click on the substance/organism name for more detail about that substance/organism including information in Word or PDF format of the:

- Decision/Control
- Evaluation and Review report
- Full application
- Application Summary

Contact us

If you need to receive a hard copy of the application or approval documents, or want help searching, please contact us on 0800 376 234 or email info@ermanz.govt.nz

TEST CERTIFIERS

The Chief Executive of the Environmental Risk Management Authority, acting under delegated power from the Authority, reached decisions on the following applications. The full requirements and limitations for the following Test Certifiers are available on our public register or website.

Applicant: Michael O'Reilly

Region: Northland

Decision: Approved with Limitations

Date of Approval: 03 March 2006

ERMA Approval Code: TST000261

Applicant: Glenn Pope

Region: Northland

Decision: Approved with Limitations

Date of Approval: 03 March 2006

ERMA Approval Code: TST000260

Applicant: Tony Paku
Region: Otago
Decision: Approved with Limitations
Date of Approval: 03 March 2006
ERMA Approval Code: TST000266

Applicant: Chris O'Connor
Region: Hawkes Bay
Decision: Approved with Limitations
Date of Approval: 10 March 2006
ERMA Approval Code: TST000268

Applicant: Malaina Tuson
Region: Nelson
Decision: Approved with Limitations
Date of Approval: 03 March 2006
ERMA Approval Code: TST000264

Applicant: Brent Baker
Region: Auckland
Decision: Approved with Limitations
Date of Approval: 27 March 2006
ERMA Approval Code: TST000269

Applicant: Ben Ashworth
Region: Nelson
Decision: Approved with Limitations
Date of Approval: 03 March 2006
ERMA Approval Code: TST000263

Applicant: Bradley Stenhouse
Region: West Coast
Decision: Approved with Limitations
Date of Approval: 27 March 2006
ERMA Approval Code: TST000272

Applicant: Dale Marriott
Region: Nelson
Decision: Approved with Limitations
Date of Approval: 03 March 2006
ERMA Approval Code: TST000265

Applicant: Brian Smith
Region: West Coast
Decision: Approved with Limitations
Date of Approval: 27 March 2006
ERMA Approval Code: TST000271

Applicant: David Wylie
Region: Auckland
Decision: Approved with Limitations
Date of Approval: 03 March 2006
ERMA Approval Code: TST000262

Applicant: Ian Arnott
Region: West Coast
Decision: Approved with Limitations
Date of Approval: 27 March 2006
ERMA Approval Code: TST000270

Applicant: Brian Crisp
Region: Auckland
Decision: Approved with Limitations
Date of Approval: 03 March 2006
ERMA Approval Code: TST000267



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