

ENVIRONMENTAL RISK MANAGEMENT AUTHORITY

THE BULLETIN

The Bulletin is published 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

NOTIFIED APPLICATIONS RECEIVED AND OPEN FOR SUBMISSIONS

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@ermanz.govt.nz to be added to our interested party list. You will need to nominate the types of applications that you are interested in.

There are currently no notified applications open for submission.

NON-NOTIFIED APPLICATIONS RECEIVED

Applicant: Landcare Research New Zealand Limited

Application Code: NOC04018

Purpose: To import into containment dried herbarium specimens of Kingdoms Plantae, Mycenae, Protista and Cyanobacteria, including seeds, pollen and spores, as reference material to study and improve understanding of the New Zealand flora

Date Formally Received: 18 October 2005

Applicant: Ilagra Corporation

Application Code: NOC05011

Purpose: To import into containment Argali sheep (*Ovis ammon*) to ascertain the economic potential and viability of cross breeding Argali sheep with domestic sheep

Date Formally Received: 08 November 2005

Applicant: Canterbury Broom Group

Application Code: NOC05012

Purpose: The Canterbury Broom Group seeks permission to import into containment the broom biological control agents *Aceria genistae* and *Agonopterix assimillela* for breeding purposes pending release approval

Date Formally Received: 18 November 2005

DECISIONS ON APPLICATIONS

Applicant: Institute of Geological and Nuclear Sciences

Application Code: NOC05006

Purpose: To import for research purposes including taxonomy, ecology, biodiversity and biotechnology studies, cultures of non-pathogenic extremophilic microorganisms

Decision Notified: 04 November 2005

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

ERMA NEW ZEALAND

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Description of Organisms: Non-pathogenic extremophilic microorganisms

Decision: Approved with Controls

ERMA Approval Code: NOC002454

Applicant: Photonz Corp Limited

Application Code: NFM05002

Purpose: Photonz Corporation Limited is developing nutritional products from naturally occurring micro-algae. The purpose of the present application is to seek approval for the Company to conduct liquid cultures of 24 microalgal species at volumes above ten litres

Decision Notified: 04 November 2005

Description of Organisms: Microalgae 05002A, Microalgae 05002B, Microalgae 05002C

Decision: Approved with Controls

ERMA Approval Code: NFM000002 - 04

Applicant: Photonz Corp Limited

Application Code: NOC05007

Purpose: Photonz Corporation Limited is developing nutritional products from naturally occurring micro-algae. The purpose of this application is to seek approval to import into containment 2 microalgal species to conduct liquid cultures under a development application

Decision Notified: 04 November 2005

Description of Organisms: Microalgae 05002A, Microalgae 05002B

Decision: Approved with Controls

ERMA Approval Code: NOC002455 - 56

Applicant: AgResearch Limited

Application Code: NOR05001

Purpose: To release from containment an Irish strain of the insect *Microctonus aethioides* Loan (Hymenoptera: Braconidae) for biological control of the clover root weevil *Sitona lepidus* Gyllenhal (Coleoptera: Curculionidae), a major pest of clovers

Decision Notified: 08 November 2005

Description of Organisms: *Microctonus aethioides* Loan (Hymenoptera: Braconidae)

Decision: Approved with Controls

ERMA Approval Code: NOR000014

Applicant: IRL BioPharm

Application Code: NOC05004

Purpose: To import into containment and develop at laboratory scale, novel, marine-adapted Actinomycetes that express novel secondary metabolites. The aim is to assess the potential of the metabolites as biopharmaceuticals

Decision Notified: 10 November 2005

Description of Organisms: *Dietzia* (Rainey et al. 1995), *Marimomyces* (Jensen et al. 2004), *Marinophilus* (Jensen et al. 2005), *Micromonospora* (Orskov 1923), *Rhodococcus* (Goodfellow & Alderson 1997), *Salinibacterium* (Han et al. 2003), *Salinospora* (Mincer et al. 2002), *Streptomyces* (Waksman & Henrici 1943), *Verrucosipora* (Riedlinger et al. 2004)

Decision: Approved with Controls

ERMA Approval Code: NOC002457 - 65

Applicant: New Zealand Forest Research Institute (trading as Scion)

Application Code: NOR02001

Purpose: To import for release the weevil *Cleopus japonicus* for the purpose of biological control of the plant *Buddleja davidii*

Decision Notified: 30 November 2005

Description of Organisms: *Cleopus japonicus* Wingelmuller, 1938

Decision: Approved with Controls

ERMA Approval Code: NOR000015

DELEGATED AUTHORITY

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

Applicant: Horticulture and Food Research Institute (HortResearch)

Institute Code: GMO04/HRPN002

Application Code: GMD05104

Purpose: The aim of the research is to understand plant gene function and regulatory

elements (such as promoters, terminators and enhancers) involved in plant architecture, (vegetative growth and development), and in floral initiation and development

Decision Notified: 15 November 2005

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

Escherichia coli (non-pathogenic strains) modified with standard molecular biology cloning and expression plasmid, phagemid and plant binary vector DNA (extrachromosomal only). Donor DNA sequences of plant origin involved in architectural and floral developmental processes. Donor DNA coding for reporter genes and selectable markers

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004023

BCH Number: 10802

Description of Organism: *Agrobacterium tumefaciens* (Smith & Townsend 1907) Conn 1942

Agrobacterium tumefaciens (disarmed laboratory strains) modified with standard molecular biology cloning and expression plasmid, phagemid and plant binary vector DNA (extrachromosomal only). Donor DNA sequences of plant origin involved in architectural and floral developmental processes. Donor DNA coding for reporter genes and selectable markers

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004021

BCH Number: 10803

The following approved organisms are modified with:

Modification: Tissue culture modified with both transient and stable, integrated plant binary vector DNA. Donor DNA sequences of plant origin involved in architectural and floral developmental processes. Donor DNA coding for reporter genes and selectable markers

And

Whole plants modified with both transient and stable, integrated plant binary vector

DNA. Donor DNA sequences of plant origin involved in architectural and floral developmental processes. Donor DNA coding for reporter genes and selectable markers

Description of Organism: *Actinidia arguta* (tissue culture) modified

Containment: PC1

Category: A

and

Actinidia arguta (whole plants) modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004017

BCH Number: 10811

Description of Organism: *Actinidia chinensis* (tissue culture) modified

Containment: PC1

Category: A

and

Actinidia chinensis (whole plants) modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004018

BCH Number: 10810

Description of Organism: *Actinidia deliciosa* (tissue culture) modified

Containment: PC1

Category: A

and

Actinidia deliciosa (whole plants) modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004019

BCH Number: 10809

Description of Organism: *Actinidia eriantha* (tissue culture) modified

Containment: PC1

Category: A

and

Actinidia eriantha (whole plants) modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004020

BCH Number: 10812

Description of Organism: *Arabidopsis thaliana* (L.)
Heynh (1842)

Arabidopsis thaliana (tissue culture)
modified

Containment: PC1

Category: A

and

Arabidopsis thaliana (whole plants)
modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004022

BCH Number: 10807

Description of Organism: *Lycopersicon esculentum*
(tissue culture) modified

Containment: PC1

Category: A

and

Lycopersicon esculentum (whole plants)
modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004024

BCH Number: 10808

Description of Organism: *Malus domestica* (tissue
culture) modified

Containment: PC1

Category: A

and

Malus domestica (whole plants) modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004025

BCH Number: 10817

Description of Organism: *Nicotiana benthamiana*
(tissue culture) modified

Containment: PC1

Category: A

and

Nicotiana benthamiana (whole plants)
modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004026

BCH Number: 10805

Description of Organism: *Nicotiana tabacum* (tissue
culture) modified

Containment: PC1

Category: A

and

Nicotiana tabacum (whole plants)
modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004027

BCH Number: 10804

Description of Organism: *Petunia hybrida* (tissue
culture) modified

Containment: PC1

Category: A

and

Petunia hybrida (whole plants) modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004028

BCH Number: 10806

Description of Organism: *Vaccinium angustifolium*
(tissue culture) modified

Containment: PC1

Category: A

and

Vaccinium angustifolium (whole plants) modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004029

BCH Number: 10815

Description of Organism: *Vaccinium ashei* (tissue culture) modified

Containment: PC1

Category: A

and

Vaccinium ashei (whole plants) modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004030

BCH Number: 10814

Description of Organism: *Vaccinium corymbosum* (tissue culture) modified

Containment: PC1

Category: A

and

Vaccinium corymbosum (whole plants) modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004031

BCH Number: 10813

Description of Organism: *Vaccinium macrocarpon* (tissue culture) modified Containment: PC1

Category: A

and

Vaccinium macrocarpon (whole plants) modified

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004032

BCH Number: 10816

Applicant: Massey University

Institute Code: GMO05/MU010

Application Code: GMD05107

Purpose: To isolate and identify mycorrhizal endophytes (from form-genus Rhizoctonia) of New Zealand *Corybas alliance* (CA) species, *Nematoceras iridescens*

Decision Notified: 15 November 2005

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

Escherichia coli (K12 derivatives) modified with non-conjugative plasmid vectors ligated to PCR products (ITS and mtLSU regions) from mycorrhizal endophytes of New Zealand *Corybas alliance* (spider orchids)

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004014

BCH Number: 10799

Applicant: Massey University

Institute Code: GMO05/MU011

Application Code: GMD05108

Purpose: To develop a microsatellite library for weka so that population genetic diversity can be investigated

Decision Notified: 15 November 2005

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

Escherichia coli (B and K12 derivatives) modified with non-conjugative vectors containing weka DNA that has been enriched for repetitive microsatellite sequences

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004015

BCH Number: 10800

Applicant: Massey University
Institute Code: GMO05/MU012
Application Code: GMD05109

Purpose: Obtain DNA sequence data from native flora and fauna: rifleman, kakapo, alpine buttercups (*Ranunculus*), willow herbs (*Epilobium*), *Ourisia* and alpine brassicas (*Pachycladon*) from within geographic boundaries of Ngāi Tahu for diversity and evolution study

Decision Notified: 15 November 2005

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

Escherichia coli (K12 derivatives) modified with non-conjugative plasmid vectors ligated to PCR products derived from mitochondrial genomes of birds from the Ngāi Tahu rohe: rifleman, kakapo, or commonly used markers from the nuclear genome or chloroplasts of plants from the Ngāi Tahu rohe: alpine buttercups (*Ranunculus*), willow herbs (*Epilobium*), *Ourisia* and alpine brassicas (*Pachycladon*)

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004016

BCH Number: 10798

Applicant: Massey University
Institute Code: GMO05/MU019
Application Code: GMD05112

Purpose: To investigate the expression and biochemical properties of a key protein implicated in the RNA interference process of *Giardia intestinalis*

Decision Notified: 24 November 2005

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

Escherichia coli (non-pathogenic strains) modified with non-conjugative laboratory expression vectors containing the dicer gene sequence from *Giardia intestinalis*

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004038

BCH Number: 10917

Applicant: University of Auckland
Institute Code: GMO05/UA004
Application Code: GMD05110

Purpose: Construction and use of genetically modified organisms belonging to the Family Enterobacteriaceae

Decision Notified: 15 November 2005

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

Escherichia coli (non pathogenic laboratory adapted strains) modified with standard non self-transmissible *Escherichia coli* cloning and expression vectors, mobilisable non-replicating vectors (e.g. pDM4), P1 bacteriophage vectors and inducible protein expression vectors (e.g. pBAD)

With PCR amplified genes from:

Escherichia coli K-12, pathogenic strains EPEC, EHEC (including non-toxin producing derivatives of O157:H7), EIEC, DAEC, ETEC, EaggEC and UPEC

Salmonella typhimurium strains LT-2, NCTC13448, P98

Salmonella typhi attenuated vaccine strain of Ty2; CVD908

Shigella flexneri strain - 2457T

Hafnia alvei strains 19982, 10457, 9194, 10790. 1058

Containment: PC1

Category: A

and

Escherichia coli (pathogenic strains EPEC, EHEC (including non-toxin producing derivatives of O157:H7), EIEC, DAEC, ETEC, EaggEC and UPEC) modified with mobilisable non-replicating vectors (e.g. pDM4), P1 bacteriophage vectors and inducible protein expression vectors (e.g. pBAD). With *Escherichia coli* genes

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004033

BCH Number: 10818

Description of Organism: *Hafnia alvei* (strains 19982, 10457, 9194, 10790. 1058) modified with mobilisable non-replicating vectors (e.g. pDM4), P1 bacteriophage vectors and inducible protein expression vectors (e.g. pBAD)

With PCR amplified genes from *Hafnia alvei* strains 19982, 10457, 9194, 10790 and 1058

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004034

BCH Number: 10822

Description of Organism: *Salmonella typhi* (attenuated vaccine strain of Ty2; CVD908) modified with mobilisable non-replicating vectors (e.g. pDM4), P22 bacteriophage vectors and inducible protein expression vectors (e.g. pBAD)

With PCR amplified genes from *Salmonella typhi* attenuated vaccine strain of Ty2; CVD908

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004035

BCH Number: 10820

Description of Organism: *Salmonella typhimurium* (strains LT-2, NCTC13448, P98) modified with mobilisable non-replicating vectors (e.g. pDM4), P22 bacteriophage vectors and inducible protein expression vectors (e.g. pBAD)

With PCR amplified genes from *Salmonella typhimurium* strains LT-2, NCTC13448, P98

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004036

BCH Number: 10819

Description of Organism: *Shigella flexneri* (strain - 2457T) modified with mobilisable non-replicating vectors (e.g. pDM4), and inducible protein expression vectors (e.g. pBAD)

With PCR amplified genes from *Shigella flexneri* strain - 2457T

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD004037

BCH Number: 10821

Applicant: University of Auckland

Institute Code: GMO05/UA018

Application Code: GMD05115

Purpose: To study the regulation of haematopoiesis and coagulation using Category A Genetically Modified Organisms

Decision Notified: 30 November 2005

The following approved organisms are modified with:

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

Standard mammalian and insect cell expression vectors

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

- Proteins involved in coagulation and its control
- Chaperone proteins and proteins involved in post-translational processing and protein folding
- Signalling molecules associated with haematopoiesis and coagulation
- Signal transduction molecules and receptors
- Anti-Apoptotic proteins
- Transcriptional factor proteins
- Proteins involved in translation
- Regulatory sequences
- Transcriptional and promoter elements associated with all of the above sets of gene families (with particular reference to proteins involved in glucose, protein and lipid metabolism)
- cDNA and genomic library inserts involved in regulating glucose, protein and lipid metabolism, 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)

And

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

This approval excludes the following genes:

- Genes encoding toxins with an LD50 < 100µg/kg
- Sequences producing particles able to infect human, animals or plants
- Genes derived from CITES derived species

Note that Human genes will not be derived from persons of Māori descent

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

Escherichia coli (non pathogenic laboratory adapted, auxotrophic strains) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004073

BCH Number: 11111

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: GMD004081

BCH Number: 11112

Description of Organism: *Pichia pastoris* Guillemer Phaff (1956)

Pichia pastoris (non pathogenic laboratory adapted strains) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004078

BCH Number: 11113

Description of Organism: *Drosophila melanogaster* Meigen

Drosophila melanogaster (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004072

BCH Number: 11114

Description of Organism: *Trichoplusia ni* (Huebner)

Trichoplusia ni (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004083

BCH Number: 11115

Description of Organism: *Spodoptera frugiperda* Smith

Spodoptera frugiperda (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004082

BCH Number: 11116

The following approved organisms are modified with:

Modification: Cell lines modified with:

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

Standard mammalian and insect cell expression vectors

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

- Proteins involved in coagulation and its control
- Chaperone proteins and proteins involved in post-translational processing and protein folding
- Signalling molecules associated with haematopoiesis and coagulation
- Signal transduction molecules and receptors
- Anti-Apoptotic proteins
- Transcriptional factor proteins
- Proteins involved in translation
- Regulatory sequences
- Transcriptional and promoter elements associated with all of the above sets of gene families (with particular reference to proteins involved in glucose, protein and lipid metabolism)
- cDNA and genomic library inserts involved in regulating glucose, protein and lipid metabolism, 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)

And

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

This approval excludes the following genes:

- Genes encoding toxins with an LD50 < 100µg/kg
- Sequences producing particles able to infect human, animals or plants
- Genes derived from CITES derived species.

Note that Human genes will not be derived from persons of Māori descent

And

Cell lines modified with:

Replication deficient AAV and retroviral viral vectors used to transform mammalian

cell lines only (Note also that this approval is only to use the vectors obtained either commercially or from colleagues to transform cell and this does not constitute an approval to package these vectors). These modifications may contain any of the above excluding Anti-Apoptotic proteins

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

Canis familiaris (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004068

BCH Number: 11124

Description of Organism: *Cercopithecus aethiops* Linnaeus

Cercopithecus aethiops (cell lines) modified with:

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004069

BCH Number: 11126

Description of Organism: *Cricetulus griseus* Milne Edwards 1857

Cricetulus griseus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004070

BCH Number: 11123

Description of Organism: *Cricetus cricetus* Linnaeus

Cricetus cricetus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004071

BCH Number: 11122

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

Homo sapiens (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004074

BCH Number: 11117

Description of Organism: *Mesocricetus auratus*

Waterhouse

Mesocricetus auratus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004075

BCH Number: 11125

Description of Organism: *Mus musculus*

Linnaeus, 1758

Mus musculus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004076

BCH Number: 11118

Description of Organism: *Mus spretus* Latase

Mus spretus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004077

BCH Number: 11119

Description of Organism: *Rattus norvegicus*

(Berkenhout, 1769)

Rattus norvegicus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004079

BCH Number: 11120

Description of Organism: *Rattus rattus* Linnaeus

Rattus rattus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004080

BCH Number: 11121

Applicant: University of Auckland

Institute Code: GMO05/UA026

Application Code: GMD05114

Purpose: Study of Galectin and DING proteins

Decision Notified: 30 November 2005

The following approved organisms are modified with:

Modification: Cell lines modified with standard *Escherichia coli* cloning and expression vectors. Most of which are non-conjugative but definitely not self transmissible

Standard mammalian, zebrafish and insect cell expression vectors

With:

Genes sourced from bacteria, plants, man (*Homo sapiens*), mouse (*Mus musculus*, *Mus spretus*) and rat (*Rattus norvegicus*, *Rattus rattus* and zebrafish (*Danio rerio*) (both sense and anti-sense constructs including nucleotide deletions and substitutions as well as RNA interference sequences) encoding DING proteins (ie those proteins with conserved N-terminal sequence DINGGG-)

Galectin genes sourced from bacteria, man (*Homo sapiens*), mouse (*Mus musculus*, *Mus spretus*) and rat (*Rattus norvegicus*, *Rattus rattus* and zebrafish (*Danio rerio*) (both sense and anti-sense constructs including nucleotide deletions and substitutions as well as RNA interference sequences)

In both cases:

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

To also include probing of genomic and cDNA libraries

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)

And

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

Due to the nature of the study the following exceptions will apply:

- Genes will not encode toxins with an LD50 < 100µg/kg
- Sequences will not produce particles able to infect human, animals or plants
- Genes will not be derived from CITES derived species

Note that 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: GMD004039

BCH Number: 11104

Description of Organism: *Cercopithecus aethiops* Linnaeus

Cercopithecus aethiops (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004040

BCH Number: 11106

Description of Organism: *Cricetulus griseus* Milne Edwards 1857

Cricetulus griseus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004041

BCH Number: 11103

Description of Organism: *Cricetus cricetus* Linnaeus

Cricetus cricetus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004042

BCH Number: 11102

Description of Organism: *Danio rerio* Hamilton-Buchanan

Danio rerio (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004043

BCH Number: 11107

Description of Organism: *Drosophila melanogaster* Meigen

Drosophila melanogaster (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004044

BCH Number: 11108

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

Escherichia coli (non pathogenic, auxotrophic, laboratory adapted strains) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004045

BCH Number: 11096

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

Homo sapiens (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004046

BCH Number: 11097

Description of Organism: *Mesocricetus auratus* Waterhouse

Mesocricetus auratus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004047

BCH Number: 11105

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004048

BCH Number: 11098

Description of Organism: *Mus spretus* Latase

Mus spretus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004049

BCH Number: 11099

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

Rattus norvegicus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004050

BCH Number: 11100

Description of Organism: *Rattus rattus* Linnaeus

Rattus rattus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004051

BCH Number: 11101

Description of Organism: *Spodoptera frugiperda*
Smith

Spodoptera frugiperda (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004052

BCH Number: 11110

Description of Organism: *Trichoplusia ni* (Huebner)

Trichoplusia ni (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004053

BCH Number: 11109

Applicant: University of Auckland

Institute Code: GMO05/UA027

Application Code: GMD05113

Purpose: Regulation of Bone Remodelling

Decision Notified: 30 November 2005

The following approved organisms are modified with:

Modification: Standard *Escherichia coli* cloning and expression vectors. Most of which are non-conjugative but definitely not self transmissible

Standard mammalian and insect cell expression vectors (viral vectors excluded)

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

- Molecules involved in signal transduction in bone and bone metabolism with particular reference to diseases such as osteoporosis
- To include genes encoding:
- Chaperone proteins and proteins involved in post-translational processing and protein folding
 - Signalling molecules associated with bone cells
 - Signal transduction molecules and receptors
 - Anti-Apoptotic proteins
 - Transcriptional factor proteins
 - Proteins involved in translation
 - Regulatory sequences
 - Transcriptional and promoter elements associated with all of the above sets of gene families (with particular reference to proteins involved in glucose, protein and lipid metabolism)

- cDNA and genomic library inserts involved in regulating glucose, protein and lipid metabolism, 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)

And

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

Due to the nature of the study the following exceptions will apply:

- Genes will not encode toxins with an LD50 < 100µg/kg
- Sequences will not produce particles able to infect human, animals or plants
- Genes will not be derived from CITES derived species

Note that Human genes will not be derived from persons of Māori descent

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: GMD004059

BCH Number: 11030

Description of Organism: *Drosophila melanogaster* Meigen

Drosophila melanogaster (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004058

BCH Number: 11031

Description of Organism: *Trichoplusia ni* (Huebner)

Trichoplusia ni (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004067

BCH Number: 11032

Description of Organism: *Spodoptera frugiperda* Smith

Spodoptera frugiperda (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004066

BCH Number: 11033

The following approved organisms are modified with:

Modification: Cell lines modified with standard *Escherichia coli* cloning and expression vectors. Most of which are non-conjugative but definitely not self transmissible

Standard mammalian and insect cell expression vectors (viral vectors excluded)

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

- Molecules involved in signal transduction in bone and bone metabolism with particular reference to diseases such as osteoporosis

To include genes encoding:

- Chaperone proteins and proteins involved in post-translational processing and protein folding
- Signalling molecules associated with bone cells
- Signal transduction molecules and receptors
- Anti-Apoptotic proteins
- Transcriptional factor proteins
- Proteins involved in translation
- Regulatory sequences

- Transcriptional and promoter elements associated with all of the above sets of gene families (with particular reference to proteins involved in glucose, protein and lipid metabolism)
- cDNA and genomic library inserts involved in regulating glucose, protein and lipid metabolism, 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)

And

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

Due to the nature of the study the following exceptions will apply:

- Genes will not encode toxins with an LD50 < 100µg/kg
- Sequences will not produce particles able to infect human, animals or plants
- Genes will not be derived from CITES derived species

Note that Human genes will not be derived from persons of Māori descent

And

Cell lines modified with:

- Replication deficient Adenoviral vectors

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

- Molecules involved in signal transduction in bone and bone metabolism with particular reference to diseases such as osteoporosis and Paget's disease and promotion of bone deposition

To include genes encoding:

- Chaperone proteins and proteins involved in post-translational processing and protein folding

- Signalling molecules associated with bone cells
- Signal transduction molecules and receptors (see exclusion)
- Transcriptional factor proteins (see exclusion)
- Proteins involved in translation
- Structural proteins
- Regulatory sequences including
- Transcriptional and promoter elements associated with all of the above sets of gene families (with particular reference to proteins involved in glucose, protein and lipid metabolism)
- cDNA and genomic library inserts involved in regulating glucose, protein and lipid metabolism, 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)

And

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

To specifically exclude the following:

- Genes encoding molecules that could lead to uncontrolled cell growth including: oncogenes, developmental regulators, antiapoptotic regulators, cytokines, and transcriptional regulators involved in oncogenesis
- Genes will not encode toxins with an LD50 < 100µg/kg
- Nucleic acid insert will not encode more than 80% viral genome

Note that Human genes will not be derived from persons of Māori descent

.....
Description of Organism: *Rattus rattus* Linnaeus

Rattus rattus (cell lines) modified

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004065

BCH Number: 11038

Description of Organism: *Canis familiaris*
(Linnaeus, 1758)
Canis familiaris (cell lines) modified
Containment: PC1
Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004054

BCH Number: 11041

Description of Organism: *Cercopithecus aethiops*
Linnaeus
Cercopithecus aethiops (cell lines) modified
Containment: PC1
Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004055

BCH Number: 11095

Description of Organism: *Cricetulus griseus* Milne
Edwards 1857
Cricetulus griseus (cell lines) modified
Containment: PC1
Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004056

BCH Number: 11040

Description of Organism: *Cricetus cricetus*
Linnaeus
Cricetus cricetus (cell lines) modified
Containment: PC1
Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004057

BCH Number: 11039

Description of Organism: *Homo sapiens* (Linnaeus,
1758)
Homo sapiens (cell lines) modified
Containment: PC1
Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004060

BCH Number: 11034

Description of Organism: *Mesocricetus auratus*
Waterhouse
Mesocricetus auratus (cell lines) modified
Containment: PC1
Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004061

BCH Number: 11094

Description of Organism: *Mus musculus* Linnaeus,
1758
Mus musculus (cell lines) modified
Containment: PC1
Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004062

BCH Number: 11035

Description of Organism: *Mus spretus* Latase
Mus spretus (cell lines) modified
Containment: PC1
Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD004063

BCH Number: 11036

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

Decision: Approved with Controls

ERMA Approval Code: GMD004064

BCH Number: 11037

AMENDMENTS TO APPROVALS

Applicant: AgResearch Limited

Application Code: GMD02028

Purpose: The two broad objectives of this containment application are to develop transgenic cattle that can express functional therapeutic foreign proteins in their milk, and to develop transgenic cattle to study gene function and genetic performance

Decision Amendment Date: 18 November 2005

Amendment: To allow the use of a selectable marker gene coding for puromycin resistance derived from the bacterium *Streptomyces alboniger* in approval GMD02028; and to clarify that Approval GMD02028 allows the development of cattle from previously developed sperm or embryos from transgenic animals and the use of artificial insemination, *in vitro* and *in vivo* fertilisation to generate live offspring.

Applicant: AgResearch Limited

Application Code: GMF98009

Purpose: To field test, in Waikato, cattle genetically modified with cattle casein genes or the human myelin basic protein gene; or deletion of the cattle β -lactoglobulin gene. Milk may have enhanced nutritive value or be valuable as a drug for multiple sclerosis

Decision Amendment Date: 18 November 2005

Amendment: To extend the duration of Approval GMF98009 (Part 1) for a period of three years.

HAZARDOUS SUBSTANCES

NOTIFIED APPLICATIONS RECEIVED AND OPEN FOR SUBMISSIONS

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: Novartis New Zealand Limited

Application Code: HSR05075

Purpose: To import ANTEMG, a veterinary medicine for the treatment of fungal infections in salmonid eggs and adults

Date Publicly Notified: 15 November 2005

Date Submissions Close: 23 January 2006

Applicant: Tim Tech Chemicals Limited

Application Code: HSR05101

Purpose: To manufacture TF3 Substance A or B for supply as wood protection formulations for use on industrial sites

Date Publicly Notified: 17 November 2005

Date Submissions Close: 25 January 2006

Applicant: Bomac Laboratories Limited

Application Code: HSR05134

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

Date Publicly Notified: 17 November 2005

Date Submissions Close: 25 January 2006

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

Date Publicly Notified: 17 November 2005

Date Submissions Close: 25 January 2006

Applicant: Bomac Laboratories Limited

Application Code: HSR05138

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

Date Publicly Notified: 18 November 2005

Date Submissions Close: 26 January 2006

Applicant: Agronica New Zealand Limited

Application Code: HSR05142

Purpose: Pendimethex Herbicide - to import and release an emulsifiable concentrate containing 330 g/l pendimethalin for control of annual grasses and broadleaf weeds in a variety of crops

Date Publicly Notified: 18 November 2005

Date Submissions Close: 26 January 2006

Applicant: Interchem Agencies Limited

Application Code: HSR05126

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

Date Publicly Notified: 18 November 2005

Date Submissions Close: 26 January 2006

NON-NOTIFIED APPLICATIONS RECEIVED

Applicant: Pest-Tech Limited

Application Code: HSC05028

Purpose: To import into containment, Feratox, to provide research data for a variety of application methods in the control of possums

Date Formally Received: 27 October 2005

Applicant: Industrial Research Limited

Application Code: HSC05035

Purpose: To manufacture IRL Glycotherapeutic 0007 for sale to be exported for research

Date Formally Received: 31 October 2005

Applicant: Dow AgroSciences

Application Code: HSC05036

Purpose: To import a limited quantity of EF-1440 under containment to use on a trial basis to manufacture a pilot batch of GF-1571 to export to Australia for use in product evaluation trials as a herbicide

Date Formally Received: 10 November 2005

Applicant: Orion Crop Protection Limited

Application Code: HSR05143

Purpose: Orion Alpha C 100EC: to import, manufacture and release this insecticidal substance for agricultural use

Date Formally Received: 10 November 2005

DECISIONS ON APPLICATIONS

Applicant: Bomac Laboratories Limited

Application Code: HSR05074

Purpose: BPB3180/0NC: To manufacture and release for use a broad-spectrum wormer for the treatment and control of internal and external parasites in pigs

Decision Notified: 03 November 2005

Decision: Approved with Controls

Identifier for Substance: BPB3180/0NC

Classification: 6.1D Acute Oral Toxicity, 6.8C Reproductive/Developmental Toxicity via lactation, 9.1A Aquatic Ecotoxicity, 9.2B Soil Ecotoxicity, 9.3C Terrestrial Vertebrate Ecotoxicity, 9.4A Terrestrial Invertebrate Ecotoxicity

ERMA Approval Code: HSR001744

Applicant: Grace (New Zealand) Limited

Application Code: HSR05065

Purpose: ADVA: To manufacture and import a concrete admixture for use in concrete structures

Decision Notified: 03 November 2005

Decision: Approved with Controls

Identifier for Substance: ADVA 170

Classification: 6.3A Skin Irritant, 6.4A Eye Irritant, 6.5B Skin Sensitiser, 6.9B Target Organ Systemic Toxicant

ERMA Approval Code: HSR001745

Applicant: Raytheon Polar Services (New Zealand) Limited

Application Code: TNS05005

Purpose: To tranship explosives of Class 1.3C through New Zealand en route from the USA to Antarctica

Decision Notified: 04 November 2005

Decision: Approved with Controls

ERMA Approval Code: TNS000079

Applicant: Jurox New Zealand Limited

Application Code: HSR05082

Purpose: SMC Drench: To import and release for use an anthelmintic for use in cattle

Decision Notified: 21 November 2005

Decision: Approved with Controls

Identifier for Substance: SMC Drench

Classification: 6.1D Acute oral toxicity, 6.5B Skin sensitisation, 6.6B Suspected human mutagen, 6.8A eproductive/developmental toxicity, 6.9B Target organ systemic toxicant, 9.3C Terrestrial Vertebrate Ecotoxicity

ERMA Approval Code: HSR001750

Applicant: PCT International Pty Limited

Application Code: HSR05124

Purpose: Invict Cockroach Gel Bait: to import this insecticide for use by professional pest controllers and for domestic use

Decision Notified: 21 November 2005

Decision: Approved with Controls

Identifier for Substance: INVICT COCKROACH GEL BAIT

Classification: 9.1A Aquatic Ecotoxicity, 9.4B Terrestrial Invertebrate Ecotoxicity

ERMA Approval Code: HSR001751

Applicant: DuPont (New Zealand) Limited

Application Code: HSR05120

Purpose: To import and release formulated DuPont Advion Cockroach Gel Bait for use in the control of cockroaches

Decision Notified: 23 November 2005

Decision: Approved with Controls

Identifier for Substance: DUPONT ADVION COCKROACH GEL BAIT

Classification: 6.5B Skin Sensitiser, 6.9B Target Organ Systemic Toxicity, 9.1C Aquatic Ecotoxicity, 9.4B Terrestrial Invertebrate Ecotoxicity

ERMA Approval Code: HSR001752

Applicant: Grosafe Chemicals Limited

Application Code: HSR05095

Purpose: To import Hortcare Approve 70 WP, a horticultural insecticide

Decision Notified: 30 November 2005

Decision: Approved with Controls

Identifier for Substance: HORTCARE APPROVE 70 WP

Classification: 6.3B Skin irritant, 8.3A Eye corrosive, 6.9B Target organ systemic toxicant, 9.1A Aquatic ecotoxicant, 9.4A Terrestrial invertebrate ecotoxicant

ERMA Approval Code: HSR001753

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: Ameron (New Zealand) Limited

Application Code: HSR05137

Purpose: ABC7 ANTIFOULING: to import, manufacture and release this antifouling paint for application to the underside of marine vessels and structures immersed in seawater

Decision Notified: 14 November 2005

Decision: Approved with Controls

Identifier for Substance: ABC7 ANTIFOULING

Classification: 3.1C Flammable Liquid, 6.1D Acute Toxicity, 6.3B Skin Irritation, 6.4A Eye Irritation, 6.5B Skin Sensitisation, 6.8B Reproductive Developmental Toxicity, 6.9B Target Organ Systemic Toxicity, 9.1A Aquatic Ecotoxicity, 9.3C Terrestrial Vertebrate Ecotoxicity

ERMA Approval Code: HSR001748

Applicant: Seneca Holdings Limited

Application Code: HSR05136

Purpose: To manufacture and sell Ivergel as a veterinary medicine to control horse parasites

Decision Notified: 16 November 2005

Decision: Approved with Controls

Identifier for Substance: Ivergel

Classification: 6.1E Acute Toxicity, 6.5B Sensitisation, 6.8C Reproduction or developmental effects on or via lactation, 9.1A Ecotoxicity to aquatic organisms, 9.2C Soil ecotoxicity, 9.4A Ecotoxicity to terrestrial invertebrates

ERMA Approval Code: HSR001749

Applicant: Millennium Microbes Limited

Application Code: HSR05013

Purpose: To approve Vertikil and Vertiblast, biocides containing the fungi *Verticillium lecanii*.

Decision Notified: 21 November 2005

Decision: Approved with Controls

Identifier for Substance: Vertikil and Vertiblast

Classification: 6.5B Sensitisation and 9.1D (designed for biocidal action)

ERMA Approval Code: Vertikil: HSR001747 and Vertiblast: HSR001746

AMENDMENTS TO APPROVALS

Applicant: Ameron (NEW ZEALAND) Limited

Application Code: HSR05137

Purpose: ABC7 ANTIFOULING: to import, manufacture and release this antifouling paint for application to the underside of marine vessels and structures immersed in seawater

Decision Amendment Date: 23 November 2005

Amendment: Decision amended under section 67A to correct the time periods specified in controls F3, F12 and F16

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 is available on our public register or website.

Applicant: Ken Watson

Region: Marlborough

Date of Approval: 02 November 2005

ERMA Approval Code: TST000154

Applicant: Russel Bishop

Region: Marlborough

Date of Approval: 02 November 2005

ERMA Approval Code: TST000181

Applicant: John-Joseph Fraser

Region: Manawatu-Wanganui

Date of Approval: 02 November 2005

ERMA Approval Code: TST000183

Applicant: Roger Murrow

Region: Manawatu-Wanganui

Date of Approval: 02 November 2005

ERMA Approval Code: TST000182

Applicant: Wayne Bridger

Region: Auckland

Date of Approval: 02 November 2005

ERMA Approval Code: TST000188

Applicant: Richard Raines

Region: Auckland

Date of Approval: 02 November 2005

ERMA Approval Code: TST000187

Applicant: Chris Todd

Region: Auckland

Date of Approval: 02 November 2005

ERMA Approval Code: TST000186

Applicant: Neil Matthews

Region: Auckland

Date of Approval: 02 November 2005

ERMA Approval Code: TST000185

Applicant: Glenn Roberts

Region: Auckland

Date of Approval: 02 November 2005

ERMA Approval Code: TST000184

Applicant: Barry Bainbridge

Region: Auckland

Date of Approval: 02 November 2005

ERMA Approval Code: TST000193

Applicant: Malcolm Kidd

Region: Auckland

Date of Approval: 02 November 2005

ERMA Approval Code: TST000192

Applicant: Dave Parker

Region: Bay of Plenty

Date of Approval: 02 November 2005

ERMA Approval Code: TST000191

Applicant: Kenneth Walker

Region: Bay of Plenty

Date of Approval: 02 November 2005

ERMA Approval Code: TST000190

Applicant: David Wood

Region: Bay of Plenty

Date of Approval: 02 November 2005

ERMA Approval Code: TST000189

Applicant: Laurie Hart
Region: Waikato
Date of Approval: 02 November 2005
ERMA Approval Code: TST000164

Applicant: Jarrod Ward
Region: Wellington
Date of Approval: 02 November 2005
ERMA Approval Code: TST000174

Applicant: Lawrie Knight
Region: Auckland
Date of Approval: 02 November 2005
ERMA Approval Code: TST000180

Applicant: Albert Joyce
Region: Auckland
Date of Approval: 02 November 2005
ERMA Approval Code: TST000178

Applicant: David Williams
Region: Wellington
Date of Approval: 02 November 2005
ERMA Approval Code: TST000175

Applicant: Lyndon Rea
Region: Auckland
Date of Approval: 02 November 2005
ERMA Approval Code: TST000177

Applicant: David Benson
Region: Wellington
Date of Approval: 02 November 2005
ERMA Approval Code: TST000166

Applicant: Paul Pringle
Region: Wellington
Date of Approval: 02 November 2005
ERMA Approval Code: TST000167

Applicant: Gordon Patterson
Region: Canterbury
Date of Approval: 02 November 2005
ERMA Approval Code: TST000172

Applicant: David Wareing
Region: Canterbury
Date of Approval: 02 November 2005
ERMA Approval Code: TST000173

Applicant: Lex Ward
Region: Wellington
Date of Approval: 02 November 2005
ERMA Approval Code: TST000176

Applicant: Clarry Kahu
Region: Auckland
Date of Approval: 02 November 2005
ERMA Approval Code: TST000162

Applicant: Bryce Pritchard
Region: Waikato
Date of Approval: 02 November 2005 and
03 November 2005
ERMA Approval Code: TST000163

Applicant: Kevin Bremer
Region: Waikato
Date of Approval: 02 November 2005 and
07 November 2005
ERMA Approval Code: TST000165

Applicant: Jason Heatley
Region: Auckland
Date of Approval: 02 November 2005
ERMA Approval Code: TST000179

Applicant: Murray Dormer
Region: Auckland
Date of Approval: 07 November 2005
ERMA Approval Code: TST000161

Applicant: Cliff Blumfield
Region: Gisborne
Date of Approval: 11 November 2005
ERMA Approval Code: TST000205

Applicant: Sean McRae
Region: Wellington
Date of Approval: 11 November 2005
ERMA Approval Code: TST000210

Applicant: Aron Grayston
Region: Auckland
Date of Approval: 11 November 2005
ERMA Approval Code: TST000209

Applicant: Grant Williams
Region: Auckland
Date of Approval: 11 November 2005
ERMA Approval Code: TST000208

Applicant: AH (Tony) Wolland
Region: Gisborne
Date of Approval: 11 November 2005
ERMA Approval Code: TST000207

Applicant: Kent Wolland
Region: Gisborne
Date of Approval: 11 November 2005
ERMA Approval Code: TST000206

Applicant: Levi Wulf
Region: Auckland
Date of Approval: 11 November 2005
ERMA Approval Code: TST000204

Applicant: William Parker
Region: Auckland
Date of Approval: 11 November 2005
ERMA Approval Code: TST000203

Applicant: Berrell Komene
Region: Auckland
Date of Approval: 11 November 2005
ERMA Approval Code: TST000202

Applicant: Mari van Straaten
Region: Auckland
Date of Approval: 11 November 2005
ERMA Approval Code: TST000201

Applicant: Carol Hodgson
Region: Canterbury
Date of Approval: 11 November 2005
ERMA Approval Code: TST000195

Applicant: Neil Walker
Region: Auckland
Date of Approval: 11 November 2005
ERMA Approval Code: TST000200

Applicant: Kenneth Uprichard
Region: Canterbury
Date of Approval: 11 November 2005
ERMA Approval Code: TST000168

Applicant: Kevin Miles-Watson
Region: Canterbury
Date of Approval: 11 November 2005
ERMA Approval Code: TST000169

Applicant: Nigel Bowley
Region: Canterbury
Date of Approval: 11 November 2005
ERMA Approval Code: TST000171

Applicant: Colin Knudsen

Region: Canterbury

Date of Approval: 11 November 2005

ERMA Approval Code: TST000170

Applicant: Philip Jordan

Region: Canterbury

Date of Approval: 11 November 2005

ERMA Approval Code: TST000194

Applicant: Dean Bowden

Region: Auckland

Date of Approval: 17 November 2005

ERMA Approval Code: TST000211

Applicant: Graeme Laing

Region: Northland

Date of Approval: 21 November 2005

ERMA Approval Code: TST000212

Applicant: Alan Morrison

Region: Auckland

Date of Approval: 21 November 2005

ERMA Approval Code: TST000213

Applicant: Chris Bailey

Region: Marlborough

Date of Approval: 21 November 2005

ERMA Approval Code: TST000214

Applicant: Frank McConnell

Region: Northland

Date of Approval: 21 November 2005

ERMA Approval Code: TST000215

Applicant: James McConnell

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