

## Quality Data

The main provider of DNA services to the Centre for Conservation Medicine at Auckland Zoo, EcoGene also supports the Department of Conservation's centralised species recovery programmes. Other clients include MAF, AsureQuality and regional councils for a range of species identification services.

Landcare Research launched EcoGene after developing a range of advanced DNA-based diagnostic services in its Ecological Genetics Laboratory.

To ensure a responsive service, EcoGene is separate from the laboratory's research arm, however links are maintained for the development of new applications.

For more information about EcoGene, including protocols for collecting and sending samples, visit:

[www.ecogene.co.nz](http://www.ecogene.co.nz)

Or call us to discuss your DNA service requirements:

Dianne Gleeson  
*Director*  
+64 9 574 4121

Andrea Byrom  
*Science Advisor*  
+64 3 321 9629

Frank Molinia  
*Facility Manager*  
+64 9 574 4225



Landcare Research  
Manaaki Whenua

# EcoGene

EcoGene  
DNA-based diagnostics

## Advanced DNA Services

EcoGene aims to be Australasia's leading provider of DNA-based diagnostic services for biosecurity and biodiversity.

From its Auckland laboratory, EcoGene *now* provides a cost-effective and fast turnaround service for:

- Species identification
- Mammal pest monitoring
- Genotyping
- Disease screening

...and in the future:

- Non-invasive hormone monitoring
- Assisted breeding
- Genetic resource banking





# Species Identification

Identification of invertebrate species from samples, such as eggs, larvae and fragments using DNA barcoding methods

Predator identification from saliva swabs of wound sites, hair snags and scat samples

Gut content analysis for identification of food items

## Vertebrate Pest Monitoring

Mark-recapture analysis using non-invasive sampling for density estimation and monitoring of vertebrate pests

Track movements of individual animals

Detection of a pest from forensic samples (hair & scat)

Design and analysis of monitoring projects



## Genotyping

Genotypes can be obtained from individuals where molecular markers are available, or by development of species-specific markers

Gender assignment in birds



EcoGene is *now* able to test for:

Avian malaria

Whataroa virus

Murine typhus

Chytrid fungus

....and our suite of diagnostic tests is expanding all the time!

# Disease Screening