

Where's Wallaby?

Presented by
Gracie Kroos

***Once upon a
time...***

Wally





**Introduced
1870's**

- ★ Dama wallaby
Notamacropus eugenii
- ★ Bennett's wallaby
Notamacropus rufogriseus

**Present day
New Zealand**



Image credit NASA/JPL/NIMA - <http://photojournal.jpl.nasa.gov/catalog/PIA06662>, Public Domain



Bennett's wallaby *Notamacropus rufogriseus* browsing. Image credit Environment Canterbury.



Wally



No Wally

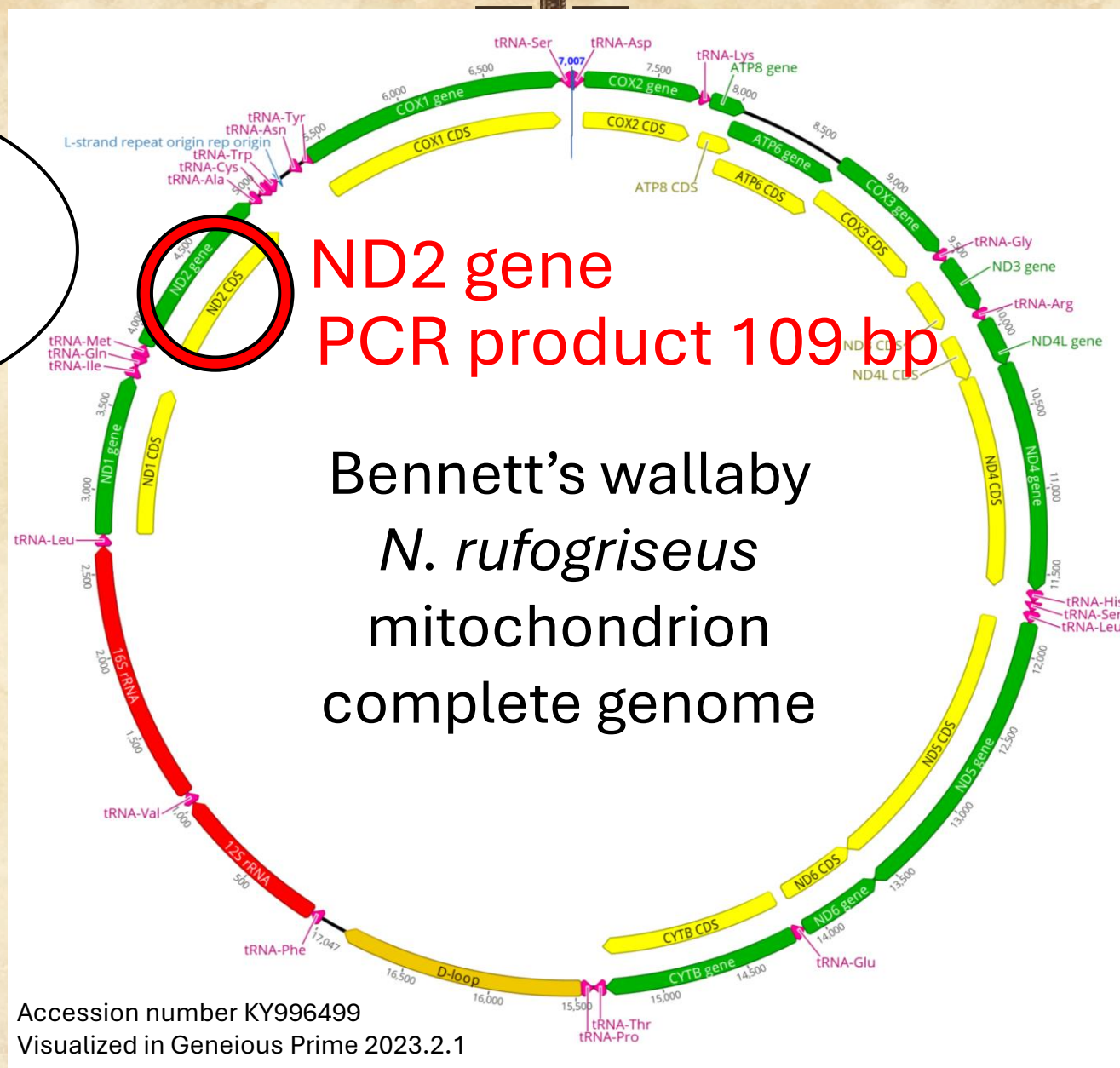


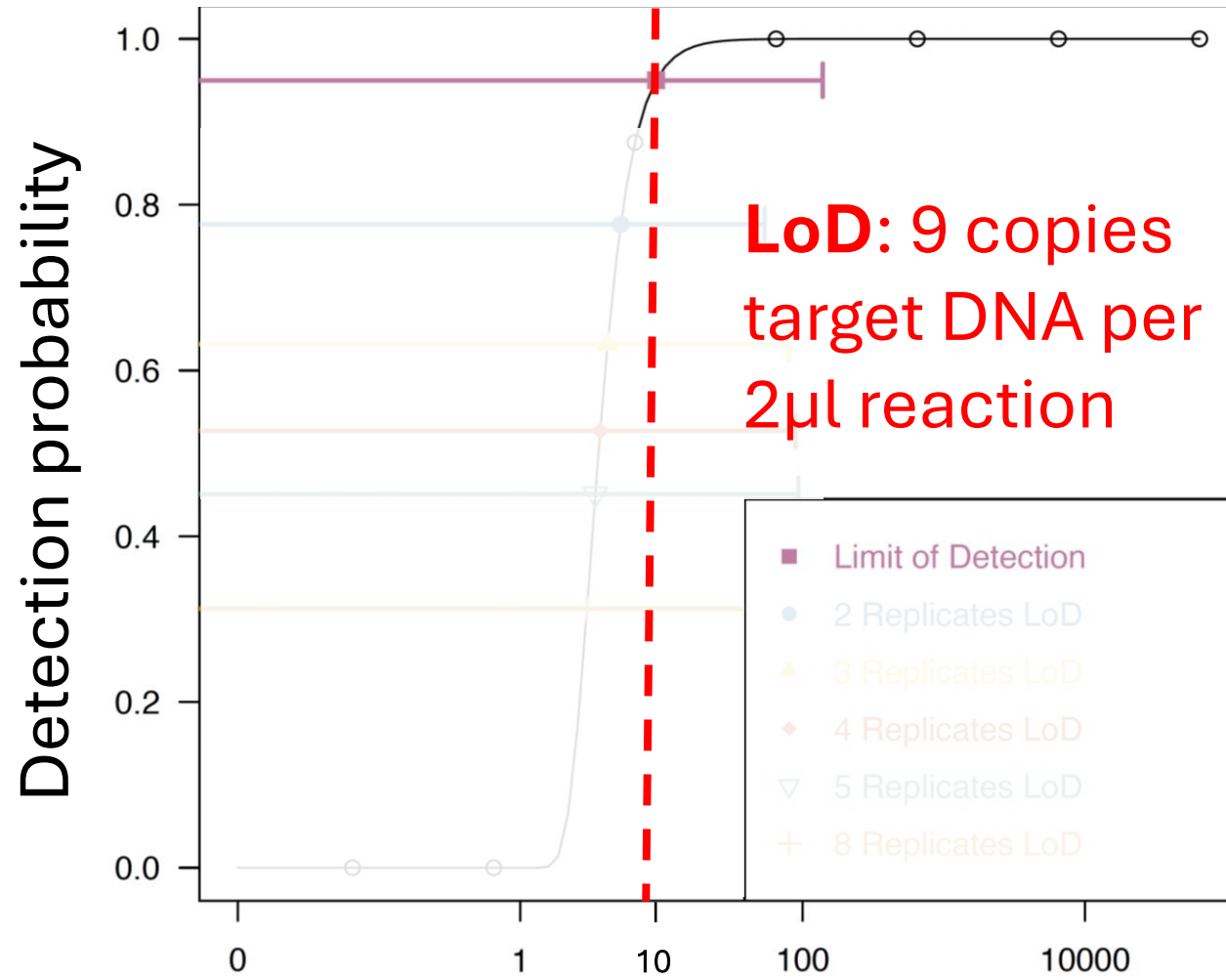
Damage caused by pest wallabies. (Left) wallaby browsing activity. (Right) wallaby-free habitat. Image credit Craig Brown.



Where's Wally?!?







Standard concentration (Copies / Reaction)





Image credit Wilderlab



Image credit Gracie Kroos

All 9 samples
positive in at least
2/3 technical
replicates

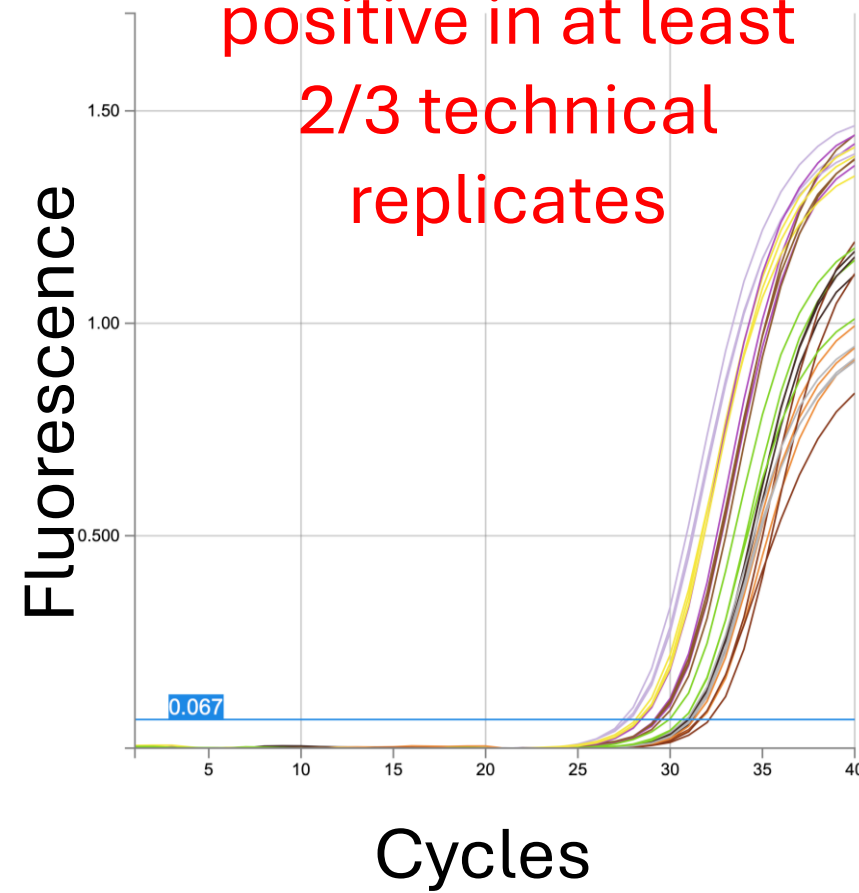
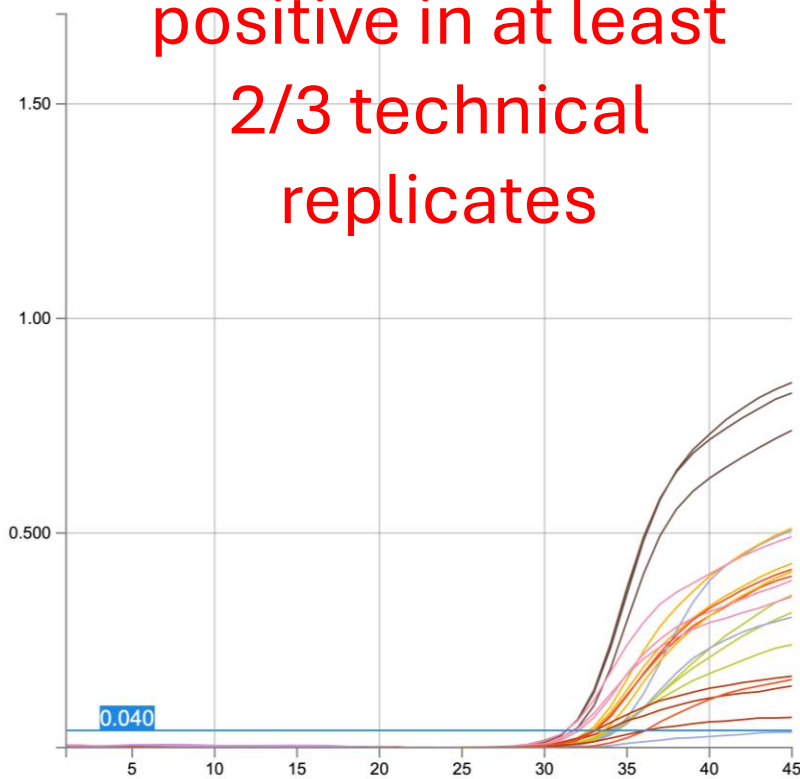




Image credit Gracie Kroos

Fluorescence



7/8 samples
positive in at least
2/3 technical
replicates

Cycles

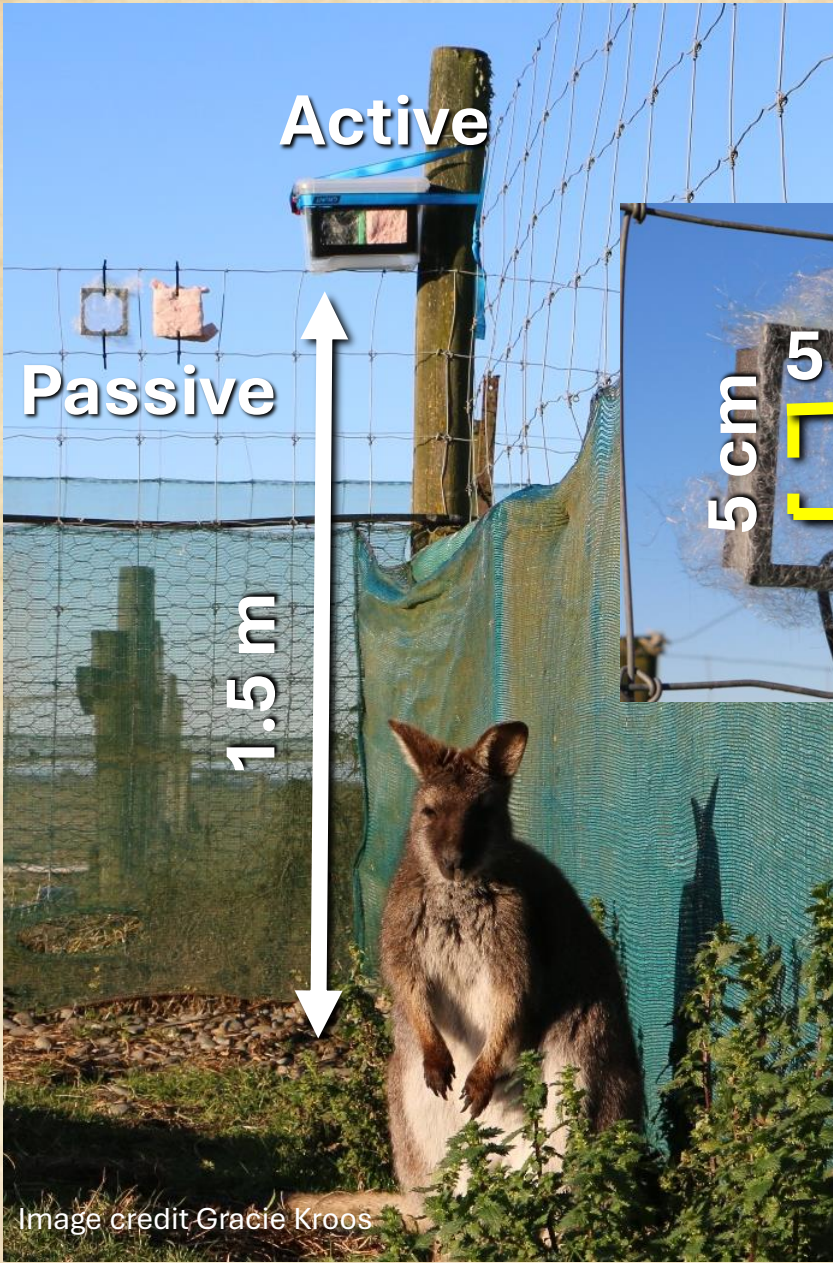
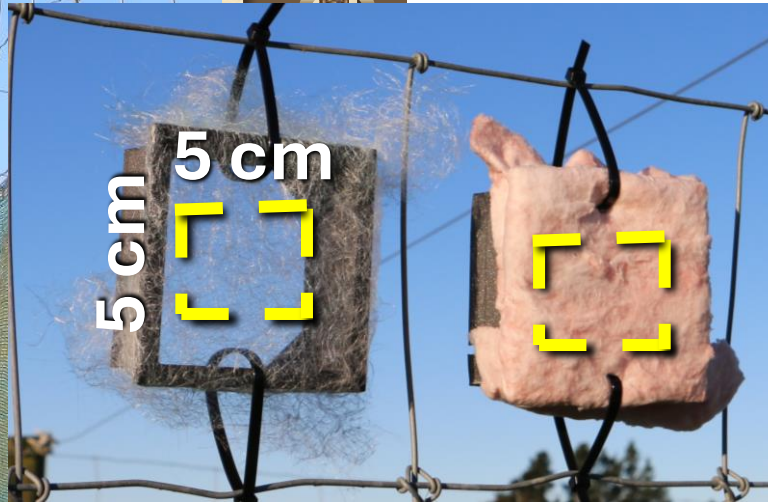
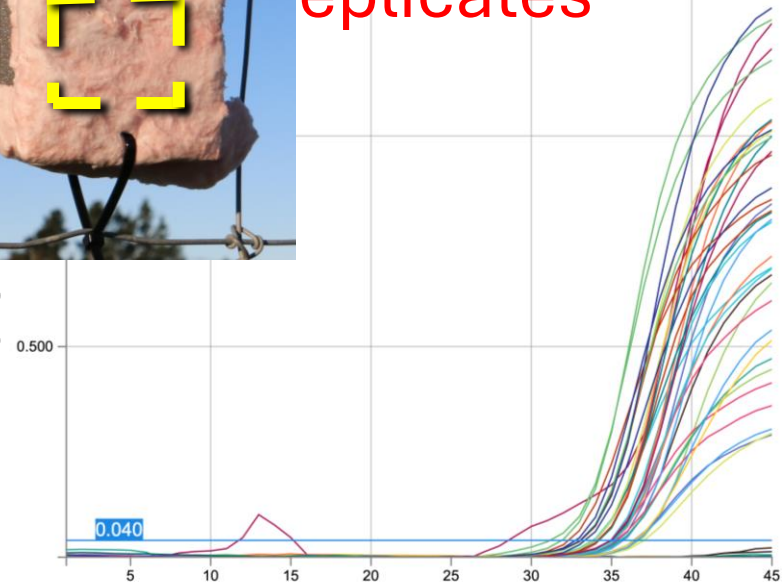


Image credit Gracie Kroos



15/20 samples
active in at least
3 technical
replicates

Fluor



Cycles

Particle capture
3-10 μM

Fibreglass “paint stop”
media (\$9 NZD per metre)

Image

1.5 m

Image credit Gracie Kroos

Seen a
WALLABY?



ReportWallabies.nz

Image credit: Otago Daily Times
<https://www.odt.co.nz/rural-life/rural-life-other/signs-encourage-reporting-wallaby-sightings>

The End

With thanks to
Tipu Mātoro National
Wallaby Eradication
Programme



Gracie Kroos [LinkedIn](#) [X](#)

PhD candidate

University of Otago

Krogr057@student.otago.ac.nz



Prof. Neil Gemmell

University of Otago



Dr. Kristen Fernandes

DBCA, Perth, Western Australia



University
of Otago

ŌTĀKOU WHAKAIHU WAKA

Travis Ashcroft

Science lead, Tipu Mātoro

Ministry for Primary
Industries, NZ



Wallaby-free Aotearoa

Ministry for Primary Industries

Manatū Ahu Matua