Publisher

Taylor & Francis 4 Park Square, Milton Park, Abingdon, Oxfordshire OX14 4RN, UK

Phone: Fax: +44 (0)207 017 6000 +44 (0)207 017 6336

Editor-in-Chief

Fiona Rhodes BSc, BVM&S, PhD

**Assistant Editors** 

Sarah Fowler, BVSc, PhD Nikki Kells, BSc, MSc

**Scientific Editor** 

Fiona Rhodes BSc, BVM&S, PhD

**Editorial Office** 

VetLearn Foundation, Mail Code 412, Massey University, Palmerston North, New Zealand

Phone:

+64 6 350 5228

Fax:

+64 6 350 5659

Email: nzvj@vets.org.nz

(for all enquiries)

**Editorial Board** 

MR Alley

BM Buddle

NJ Beausoleil

IP Chambers

S Ganesh

ND Grace

BR Jones

RA Laven

DM Leathwick

IG Mayhew RL Sanson

San San San

Advertising c/- The Editorial Office, as above

Scope

The New Zealand Veterinary Journal publishes original scientific articles, clinical communications, rapid communications, correspondence and reviews on all aspects of veterinary science, animal welfare and animal health aspects of animal science.

Instructions for Authors

See the NZVJ website http://www.vetjournal.org.nz/

The whole of the literary matter of the New Zealand Veterinary Journal is copyright, New Zealand Veterinary Association Inc.

Disclaimer:

The New Zealand Veterinary Journal is published by the New Zealand Veterinary Association Incorporated (NZVA) in association with Taylor & Francis. The NZVA and Taylor & Francis make every effort to ensure the accuracy of all the information (the "Content") contained in its publications. However, the NZVA and Taylor & Francis and its agents and licensors make no representations or warranties whatsoever as to the accuracy, completeness or suitability for any purpose of the Content and disclaim all such representations and warranties whether express or implied to the maximum extent permitted by law. Any views expressed in this publication are the views of the authors and are not necessarily the views of the Editor, the NZVA or Taylor & Francis.

## Veterinary Journal

Volume 63 Supplement 1 June 2015 ISSN 0048-0169

Special Issue: Control of bovine tuberculosis in New Zealand in the face of a wildlife host: A compiled review of 50 years of programme policy, design and research

## **Editorial**

Bovine tuberculosis in New Zealand; reviewing the past and looking forward Fiona M. Rhodes	1
Guest Editorial	
Control of bovine tuberculosis in New Zealand in the face of a wildlife host: a compiled review of 50 years of programme policy, design and research Professor Richard (Dez) Delahay	2
Review and Scientific Articles	
Toward eradication: the effect of <i>Mycobacterium bovis</i> infection in wildlife on the evolution and future direction of bovine tuberculosis management in New Zealand PG Livingstone, N Hancox, G Nugent and GW de Lisle	4
Epidemiology, diagnostics, and management of tuberculosis in domestic cattle and deer in New Zealand in the face of a wildlife reservoir BM Buddle, GW de Lisle, JFT Griffin and SA Hutchings	19
Epidemiology and control of <i>Mycobacterium bovis</i> infection in brushtail possums ( <i>Trichosurus vulpecula</i> ), the primary wildlife host of bovine tuberculosis in New Zealand G Nugent, BM Buddle and G Knowles	28
Feral ferrets ( <i>Mustela furo</i> ) as hosts and sentinels of tuberculosis in New Zealand AE Byrom, P Caley, BM Paterson and G Nugent	42
The epidemiology of <i>Mycobacterium bovis</i> in wild deer and feral pigs and their roles in the establishment and spread of bovine tuberculosis in New Zealand wildlife	1270
G Nugent, C Gortazar and G Knowles	54 68
Managing and eradicating wildlife tuberculosis in New Zealand  B Warburton and P Livingstone	77
Development of integrated surveillance systems for the management of tuberculosis in New Zealand wildlife	
DP Anderson, DSL Ramsey, GW de Lisle, M Bosson, ML Cross and G Nugent  Development of the New Zealand strategy for local eradication of tuberculosis from wildlife and livestock	89
and livestock PG Livingstone, N Hancox, G Nugent, G Mackereth and SA Hutchings	98

Cover: Cover image courtesy of Dave Leathwick.